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THE STUDY ON COMPREHENSIVE RECOVERY PROGRAM OF IRRIGATION AGRICULTURE

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ANNEX-III (1/3)

Development Plan (North Sumatra Province)

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THE STUDY ON COMPREHENSIVE RECOVERY PROGRAM OF IRRIGATION AGRICULTURE IN THE REPUBLIC OF INDONESIA

Volume-6

ANNEX-III (1/3) DEVELOPMENT PLAN (North Sumatra Province)

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PART I

PRE-FEASIBILITY STUDY FOR PRIORITIZATION OF IRRIGATION SCHEMES

CHAPTER 1 STUDY AREA

1.1 General

North Sumatra Province with a land area of $71,680 \text{ km}^2$ is administratively composed of 14 districts, 6 municipalities, 269 sub-districts and 5,333 villages. The number of districts covered by the target irrigation schemes (the project districts) is 13. Some administrative, demographic and socio-economic features of the province and project districts are presented in Table A-1.1.1 and as follows;

Division	Land Area (km ²)	No. of Districts	No. of Sub-districts	Population (1,000)	Household (1,000)
Province	71,680	13	269	11,722	2,756
Project Districts	71,155	13	226	8,977	2,122

Administrative, Demographic and Socio-economic Features in 2001

Source: Statistic data of BPS, North Sumatra

The main economic activity of the province and the project districts is an agriculture sector accounting respectively for 31 % and 45 % of the total GRDP. In the agriculture sector, the food crops agriculture is a leading sub-sector accounting for 39 % of the sector GRDP followed by the estate crops sub-sector in the province. The provincial per capita GRDP in 2000 is estimated at Rp. 5.9 million.

1.2 Conditions of Paddy Fields and Irrigation Systems

The table below shows the area and percentage of irrigated and rainfed paddy fields to the total paddy fields of North Sumatra Province in comparison with those of the whole country:

Condition of Paddy Field	North Sumatra Province		Whole Country	
Condition of Faddy Freid	Area (ha)	Ratio (%)	Area (ha)	Ratio (%)
Irrigated Paddy Field	285,700	57.4	4,868,800	62.5
Rainfed Paddy Field	212,300	42.6	2,918,600	37.5
Total	498,000	100	7,787,400	100

Classification of Paddy Fields

Source: Laporan Tahunan 2001, Dinas Pertanian Tanaman Pangan Sumatera Utara.

In the case of the whole country, the areas of each type of paddy field exclude those of Maluku and Irian Jaya.

It is seen from the above table that the percentage of irrigated paddy fields in North Sumatra Province is 57.4, while that of the whole country is 62.5. That fact indicates that the percentage of irrigated paddy fields in North Sumatra Province is much lower than that of the whole country. The table below shows the area and percentage of the respective categories in North Sumatra Province in comparison with those of the whole country based on the above classification:

Tashnisal Laval	North Sumatra Province		Whole Country	
	Area (ha)	Ratio (%)	Area (ha)	Ratio (%)
Technical Systems	71,600	25.0	2,214,300	45.5
Semi-technical Systems	72,300	25.3	979,200	20.1
Simple Systems	141,800	49.7	1,675,300	34.4
Total	285,700	100	4,868,800	100

Classification of Categories of Irrigation Systems depending on Technical Level

Source: Laporan Tahunan 2001, Dinas Pertanian Tanaman Pangan Sumatera Utara.

In the case of the whole country, the areas of Maluku and Irian Jaya are excluded from those of the respective systems.

It is seen from the above table that the percentage of technical systems in North Sumatra Province is 25.0, while that of the whole country is 45.5. On the other hand, the percentage of simple systems in North Sumatra is 49.7, while that of the whole country is 34.4. Those facts indicate that the technical level of irrigation systems in North Sumatra is much lower than that of the whole country.

1.3 Technical Level of Irrigation System

In North Sumatra, there are 770 government-developed irrigation schemes having potential areas of 299,521 ha. These schemes comprise 172 technical irrigation schemes with potential irrigation areas of 130,135 ha, 398 semi-technical irrigation schemes with potential areas of 121,421 ha and 200 simple irrigation schemes with potential of 47,965 ha as shown in Table A-1.3.1. Regarding the size of irrigation schemes, 635 schemes are less than 500 ha covering 40% of the total potential irrigation areas, while 76 schemes range from 500 ha to 1,000 ha and 59 schemes are more than 1,000 ha as shown in Table A-1.3.2.

In addition, another 276 village irrigation schemes have been developed by communities with the total potential area of 27,151 ha and average size of 98 ha.

1.4 Agricultural and Agro-economic Situations

The agricultural and agro-economic situations in the province and project districts relating to agro-demography, land holding & tenure, land use, food crops agriculture, agricultural institutions and support services is presented in Table A-1.4.1 and summarized in the followings:

1.4.1 Agro-demography and Land Holding & Tenure

The agro-demographic features of the province and project districts are estimated based on the Agriculture Census 1993 by BPS (*Badan Pusat Statistik*, Central Statistic Agency) as presented in Table A-1.4.1 and shown in the following table:

Agro-demographic Indicators	Range among Project Districts (%)	Province (%)
Proportion of Farm Households to Total Households	50-92	52
Proportion of Farm Households Having Activity in:		
- Food Crops Farming	66-97	81
- Horticulture Crops Farming	8-50	21
- Estate Crops Production	16-75	37
- Livestock	8-50	22

Agro-demographic Features of Province in 1993

On the basis of the census results, the number of farm households of the province in 2001 is estimated at some 1,433,000 or accounting for 52% of the total households of about 2,756,000. The primary farming activity of the farm households in the province is food crops production followed by estate crops production. Food crops farmers are about 81% of the total farmers.

The current land holding status in the province and project districts has been roughly estimated based on the number of farm households and the present agricultural land use as shown in Table A-1.4.1 and summarized below:

Indicators	Range among Project Districts	Province
Average Farm Land Holding Size/Farm Household	$0.62 \sim 1.68$ ha	1.00 ha
Average Holding Size of Paddy Field/Farm Household	$0.17{\sim}0.60$ ha	0.35 ha
Distribution of Farm Household by Holding Size		
- < 0.5 ha	15~54 %	41 %
- ≥ 0.5 ha	46~85 %	59 %

Roughly Estimated Land Holding Status in Province

Source: Agricultural Census, 1993, BPS

1.4.2 Agricultural Land Use

Range among

The present agricultural land use of the province and project districts has been studied based on the statistic data reported by the BPS province as shown in Table A-1.4.2. The largest farm land category in the province and the project districts is estate crops land occupying about 56 or 57% of the total farm land, followed by paddy field accounting for 15% as summarized below:

Present Agricultural Land Use in the Province in 2001

Land Liza Catagomy	Province		Project Districts	
Land Use Category	Area (ha) *1	Ratio (%)	Area (ha) *1	Ratio (%)
Paddy Field	498,000	15	487,700	15
Home Garden	280,900	9	262,400	8
Dry Land/Garden	430,500	13	423,800	13
Upland Field	231,400	7	228,300	7
Estate Crops Land *2	1,802,200	56	1,799,700	57
Total Farm Land	3,243,000	100	3,201,900	100

Note: *1. Rounded figures, *2. Estate operated by public or private firms

Source: Laporan Tahunan 2001, Dinas Pertanian Tanaman Pangan Sumatera Utara

1.4.3 Food Crops Agriculture

Paddy production is by far the most important farming activity in the food crops agriculture sub-sector both in the province and the project districts, representing 71% of the total harvested area with food crops (not including vegetables) in 2001 as shown in Table A-1.4.3 and summarized below:

Maize (%) Beans *1 (%) Tubers *2 (%) Total (%) Province Paddy (%) Province 71 20 4 100 5 71 20 4 5 100 **Project Districts**

Harvested Area of Food Crops by Proportion in 2001 in Province & Project Districts

Note: *1 Include soybeans, mungbeans & groundnut, *2 Include cassava & sweat potatoes Source: Laporan Tahunan 2001, Dinas Pertanian Tanaman Pangan Sumatera Utara

The second most important food crop in terms of harvested area in the province and project districts is maize accounting for 20% of the total harvested area, followed by tuber crops.

The production of food crops in 2001 in the province and project districts is shown in Table A-1.4.3 and summarized below:

Production of Food Crops in 2001 in Province & Project Districts (unit: 1,000ton)

Province	Paddy	Maize	Beans ^{*1}	Tubers ^{*2}
Province	3,111	634	42	626
Project Districts	3,046	630	41	610
	1 0	1	1 1	0

Note: *1. Includes soybeans, mungbeans & groundnut, *2. Includes cassava & sweat potatoes Source: Laporan Tahunan 2001, Dinas Pertanian Tanaman Pangan Sumatera Utara

1.4.4 Agricultural Institutions and Extension

The current status of agricultural institutions and extension in the province is discussed in the following section.

(1) Agricultural Institutions

The government agricultural support institutions of in the province include the Agriculture Services Office, Estate Crops Services Office, Livestock Services Office and Food Security Agency. The Agriculture Services Office is composed of five sub-services and Technical Implementation Units (*Unit Pelaksana Teknis Daerah*/UPTD) as shown in Figure A-1.4.1. The agricultural institutions in the province and project districts are shown in Table A-1.4.4.

The government agricultural support institutional set-up at district level is not consistent with the provincial set-up and there are differences among the districts concerned. The district institutions are placed under the jurisdiction of the district governor, although the technical guidance and support linkages with the central and provincial agencies are still maintained. Differences in organization set-up between central/province agencies and district agencies present constraints for maintaining coordination and technical support or guidance linkages between province and district and for coordination activities among districts. The formation of a certain task force team among province and districts will be essential to perform well-coordinated agriculture development activities.

A number of farmers' organizations involved in agricultural activities have been formed in the province. Among these, a major one is the Farmers' Group (*Kelompok Tani*/KT). A number of KTs formed in the province and their development status assessed by district agricultural agencies is shown by district in Table A-1.4.4. In the province, 39% of KTs are classified as primary level (pemula), 35% as secondary level (lanjut), 21% as middle level (madya) and 5% as advance level (maju).

There are 563 Village Unit Cooperatives (*Koperasi Unit Desa*/KUD) in the province with varying activities from dormant status to actively operated status. General problems encountered by KUD are reported to be: (i) cooperative funds still limited, (ii) management capability still poor and (iii) awareness of members on cooperative activities, member's right & responsibility, and implementation of the cooperative principle still limited.

(2) Agricultural Extension

One of the main features of the decentralization policy in the agriculture sector is the devolution of agricultural extension activities to the district government. Therefore, the functions of the provincial extension agencies have faded away and their current main functions are to provide technical guidance and support to district agencies. The arrangements for institutions for the agricultural extension services are not uniform in the project districts.

The extension services to farmers in Indonesia are basically provided by Field Extension Workers (*Penyuluhan Pertanian Lapangan*/PPL) of district agricultural agencies, who are to guide and serve to farmers through farmers' groups in their working area. PPLs are deployed by sub-district basis to Rural Extension Centers (*Balai Penyuluhan Pertanian*/BPP).

The number of BPPs and food crops extension staffs (PPLs) deployed in the province and the project districts in 2002 are shown in Table A-1.4.4. The number of BPPs and PPLs in the province is 172 and 1,363, respectively.

The weaknesses or problems involved in the current extension services are:

- Limitation of funds for implementation of extension activities, insufficient number of extension staffs and; capabilities of extension

staffs especially on post-harvest and marketing issues, which are still limited, and

- Coordination & collaboration of extension agencies under different jurisdictions yet to be established to introduce holistic approaches for extension.

1.4.5 Farm Machinery and Post-harvest Facilities

The numbers of farm machinery including tractor, water pump, thresher, paddy dryer etc. and rice mills possessed in the project districts are shown in Table A-1.4.5. The availability of hand tractors are quite in shortage when land preparation works of all the paddy fields in the districts are to be carried out by machinery. The results of the Inventory Survey indicate sufficiency of rice mills in most of the target schemes.

1.4.6 Non-food Crops Agriculture

The primary non-food crops agriculture in the province is an estate crops sub-sector operated both by public & private estates and smallholders. Major estate crops include rubber, oil palm and coffee. Statistics figures for non-food crops agriculture are shown in Table A-1.4.6.

1.5 Institution

Based on Regional Regulation No.3/2001, the North Sumatra Provincial Water Resources Service Office (PWRS, *Dinas PU Propinsi Pengairan*) was reorganized. Under the Head of PWRS, four Sub-divisions are set up to handle technical matters and a further seven Technical Implementation Units (UPTs) / Bureau for Water Resources Management (*Balai* PSDA, *Balai Pengelolaan Sumber Daya Air*) are directly controlled as illustrated in Figure A-1.5.1. The functions of UPT/PSDA are to implement: (i) operational services to the community, (ii) water resources conservation activities, and (iii) technical/administrative aspects related to such services and activities.

In North Sumatra, each DWRS organization establishes its branch offices in order to provide supporting services to the existing Water Users' Association (WUA) and encourage water users to establish new WUA and/or to activate previously established WUA. The current fulfillment rate of staff allocated to the whole DWRS is 50% as shown in Table A-1.5.1.

With respect to irrigation water users, there are 1,359 WUA already established throughout the existing irrigation schemes. Compared with 2,251 WUA as the target for establishment in North Sumatra, about 60 % have been realized as

shown in Table A-1.5.2. In the case of technical irrigation scheme areas, the rate of establishment has reached 74%.

Because of time-consuming procedures, only 163 WUA or 12% have legitimate status through registration in local courts of justice. Either registered or yet to be registered, 100 WUA are recognized as well developed with good performance on physical, administrative and financial aspects related to operation and maintenance works. However, 689 units are under development in terms of setting-up internal administration and physical aspects of irrigation water management as well as facility operation and maintenance at on-farm level, legal registration, and so on. The remaining 570 WUA have not been developed yet. Table A-1.5.3 shows the present condition of WUA performance and status by District in North Sumatra as of April 1999.

1.6 Financial Condition of District/Municipal Governments

In Table A-1.6.1, financial condition of the respective District and Municipal Governments in North Sumatra is summarized by using such indicators as per capita income and revenue for 2001 as well as actual receipts and expenditures for 2000. As for the latter indicator, some of financial reports for 2001 are still under internal auditing by officials concerned so that data for 2000 are referred to. In the course of transition period for synchronizing fiscal year with calendar year by the Government, the actual receipts and expenditures for 2000 were born during the 9-month period from April 1 to December 31, 2000.

The consolidated per capita provincial revenue for 2001 comprised Rp.64,442 for own fiscal capacity consisting of own source revenue, non-tax from natural resources and share taxes and Rp.298,978 for general allocation fund (DAU) plus contingency. Among 13 Districts and 6 Municipalities, the own fiscal capacity on per capita basis of 5 Municipalities is over the consolidated provincial level, while the per capita general allocation fund of 8 Districts and 5 Municipalities exceeds over the consolidated provincial level.

CHAPTER 2 SELECTION OF IRRIGATION SCHEMES

2.1 Database of Irrigation Schemes prepared by MOSRI

2.1.1 Verification of MOSRI's Database (WRDC)

The Ministry of Settlement and Regional Infrastructure prepared a database for water resources and irrigation systems called "WRDC", which consists of the following components:

- (a) Database for irrigation schemes, crop yield and water users' associations,
- (b) Location map of irrigation schemes, and
- (c) Irrigation diagrams for irrigation schemes.

The WRDC was established in the year 2001. However, the autonomy, accountability and responsibility for operation and maintenance are still unclear according to information from the Directorate of Technical Guidance, MOSRI.

The status of the WRDC is as follows:

- (a) System operation commenced in 2001.
- (b) The number of columns (information to be filled out) is 306 in total.
- (c) The WRDC is composed of administrative division such as Province, District and Sub-district.
- (d) The WRDC is still under preparation and the only information available is the area registered (potential area and non-potential area). Other information such as i) kind of water resources structure/intake, ii) length of canal, and iii) kind and number of related structures have not been input yet.

As a result, it is necessary to collect most of the data from each province and from field investigations, which have been executed on a sub-contract basis.

2.1.2 Contents of the List of Irrigation Schemes

The following basic information is shown in the list, which is provided by the central office of MOSRI and provincial offices:

- (a) Registration Code Number
- (b) Name of irrigation scheme
- (c) Location of irrigation scheme (province, district, sub-district)
- (d) Technical level of irrigation scheme
- (e) Area (potential and non-potential area)

2.2 Criteria for Selection of Irrigation Schemes

The Inception Meetings were held between the Water Resources Management Services Office (Dinas PSDA) of North Sumatra province and the Study Team in the initial stage of field investigation. In the meeting, the irrigation schemes to be studied were examined and determined based on the following criteria:

- (a) The Study area shall be determined based on the original list presented in the Scope of Work (S/W),
- (b) The irrigation schemes with the conditions stated below shall be excluded from the original list:
 - The schemes which have been recently completed and are functioning appropriately,
 - The schemes for which implementation has been pledged by the Government and/or international donors,
 - The schemes for which potential is too low (less than 1,000 ha), even though they are included in the original list.
- (c) The irrigation schemes that need urgent rehabilitation, have been added to the list in addition to the original schemes presented in the Scope of Work (S/W).

2.3 Definitions

2.3.1 Definition of Land Use and Irrigation Area

The Irrigation Area for the Study is determined by the following formula:

Irrigation Area = (potential area for irrigation + non-potential area for irrigation) - (other land use in potential area + other land use in non-potential area)

2.3.2 Definition of Technical Level of Irrigation System

According to the Indonesian standards for irrigation system design, the irrigation area is classified into three categories, depending on their technical levels, namely technical systems, semi-technical systems, and non-technical systems, as explained below:

Standard of Irrigation System

	Irrigation system			
Items	Technical system (T)	Semi-technical	Non-technical	
	rechinical system (1)	system (ST)	system (NT)	
Main intake	Permanent structure	Permanent structure and semi-permanent structure	Temporary structure	
Diversion structure with measuring devices	Good	Fair	Poor	
Canal system	Complete independent canal systems for irrigation and drainage	Not complete independent canal systems for irrigation and drainage	Dual function of irrigation and drainage	
Tertiary canal system	Well developed	Developed to some extent	Not developed yet	
Irrigation efficiency	50 - 60%	40 - 50%	Less than 40%	
Size of irrigation area	No limitation	Up to 2,000 ha	Less than 500 ha	

2.3.3 Definition of Rehabilitation

The term of rehabilitation is classified into two, "so-called rehabilitation" and "upgrading" according to the definition stated in the table below. Such classification will be applied for all the irrigation schemes to be studied, and for the selection of irrigation schemes for preliminary investigation.

Classification of	Definition of Rehabilitation
renabilitation	
1. Rehabilitation	1) Rehabilitation is not accompanied by an increase of irrigation area.
	2) Rehabilitation aims at recovering the system designed irrigation capacity (recovering as designed) from the reservoir/intake facilities to the terminal system.
	3) Rehabilitation will increase cropping intensity of dry season crops by 0.2 for Java and 0.3 for outer Java.
	4) Rehabilitation aims at repairing reservoir/intake facilities, canals and related structures, which are damaged, defective and deteriorated
	5) The grade to be applied to the irrigation system should be technical
	level.
2. Upgrading	1) It is possible to expand the irrigation area by upgrading existing irrigation facilities.
	2) Extension of the irrigation area by means of upgrading can be made within rainfed paddy fields. More than one cropping can be increased
	 3) Rehabilitation of the existing facilities is considered to be the same as 2.1) above. However, as rehabilitation aims at upgrading the quality of structures, deterioration can be decreased (life span can be approx. 50 years).
	4) Effectiveness of implementation of upgrading works is expected to be high if the extension area is large
	5) The grade to be applied to the irrigation system should be technical level.

Classification of rehabilitation has been carried out based on the collected information from province and determined as indicated in Tables A-2.3.1, and summarized as shown in the following table:

Type and Number of Rehabilitation Works

No. of Schemes	Classification of Irrigation Scheme			
	Rehabilitation	Upgrading		
50	21	29		

2.4 Selected Irrigation Schemes

The original list of irrigation schemes attached to the Inception Report indicates that 57 schemes with a total area of 119,472 ha were to be studied in North Sumatra Province.

Rehabilitation of the capacity and function of 6 irrigation schemes with areas of 17,699 ha will be carried out under JBIC Loan No. IP-476, 'Rehabilitation and O&M Capacity Improvement Project'. Improvement of another 4 irrigation schemes with areas of 5,125 ha is being conducted under ADB Loan, 'Northern Sumatra Irrigated Agriculture Sector Program (NSIASP)'. In this context, 10 irrigation schemes with areas of 22,824 ha are excluded from the original list.

There were 4 irrigation schemes with areas of 8,261 ha on the original list. However, as these schemes have not actually been constructed, no rehabilitation can be anticipated. Therefore, these schemes have been dropped from the list.

On the other hand, the inventory survey conducted in 2002 by the Dinas PSDA of North Sumatra indicates that there are 7 irrigation schemes newly registered in the list in addition to the original one. As these schemes require rehabilitation works according to the Dinas PSDA, they are to be included for the study.

Accordingly, it was decided to study 50 irrigation schemes with a total area of 108,511 ha in North Sumatra Province as shown in Table A-2.3.1 and a Location Map attached at the top of this report.

As a result of discussion, number and area of irrigation schemes finally selected for the Study are summarized in comparison with those of the Inception Stage as shown below:

Inception Stage		Selected Scheme		
Number of Scheme Area		Number of	Scheme Area	
Schemes	(ha)	Schemes	(ha)	
57	125,706	50	108,511	

Irrigation Schemes selected for the Study

CHAPTER 3 PRELIMINARY INVESTIGATION

3.1 General Description

3.1.1 Purposes

The purposes of the preliminary investigation for quantification of rehabilitation are as follows:

- (a) Confirmation of the related agencies for the investigation and availability of information and holders (agencies),
- (b) Analysis of the cause of malfunctioning of the irrigation system,
- (c) Collection of basic data necessary for the preparation of evaluation indicators for prioritization of rehabilitation,
- (d) Finalization of technical specification for inventory survey work, and
- (e) Collection and examination of evaluation standards consisting of standard rehabilitation methods, standard unit prices and information on cost estimates.

The purposes of the preliminary investigation for the irrigation systems are (i) finalization of the specifications for the implementation of the quantification of rehabilitation to be entrusted by analyzing the cause of malfunctioning of the irrigation systems, and (ii) confirmation of the related agencies for the investigation and availability of information and holders (agencies).

In preparation of evaluation indicators for prioritization of rehabilitation in an irrigation network, the past study report, "Technical Guideline, Rehabilitation and Upgrading of Irrigation Network (JICA, 1999, original is written in Indonesian) were reviewed in order to summarize the problems with irrigation facilities.

Evaluation indicators for prioritization of rehabilitation in an irrigation network were prepared respectively for (i) headworks, (ii) free intakes, (iii) canals and related structures, (iv) terminal facilities and on-farm, and (v) inspection roads.

Standard rehabilitation methods were prepared on the basis of, in principle, the "Irrigation Design Standards" prepared by the Directorate General of Water Resources Development, Ministry of Public Works in 1986. In addition, whenever necessary, recent design standards prepared by the Ministry of Agriculture, Fisheries and Forestry in Japan, and United States Development of the Interior, Bureau of Reclamation (USBR). The standard unit prices were determined referring to the recent similar rehabilitation works and bid prices.

3.1.2 Selection of Irrigation Schemes for preliminary investigation

The criteria for the selection of schemes for preliminary investigation were as follows:

- (a) Schemes to be selected to represent the types of rehabilitation, i.e., (i) rehabilitation, (ii) upgrading.
- (b) The beneficiary areas to be the average of all schemes, i.e., 2,000 to 3,000 ha.
- (c) WUAs in the schemes must have been established and be functioning.

Sample areas for the preliminary investigation were further discussed and selected as shown in the table below. The Study Team made the investigations at the beginning of March 2003 in collaboration with engineers of Dinas PSDA.

Item	Schemes				
Irrigation Scheme	Bandara Sidoras Medan Krio				
District	Deli Serdang	Deli Serdang			
Sub-district	Percut	Sunggal			
Registered area (ha)	3,017	3,016			
Technical level	Semi Technical	Technical			
Completion year of system	1985	1978			
Water resources river	Percut	Lau Tuntungan			
Type of water resources facility	Headworks	Headworks			
Settling basin	Not provided	Not provided			
Max. intake discharge (m^3/s)	6.8	2.8			
Length of main canal (km)	1.4	2.8			
Length of secondary canal (km)	37.5	23.3			
Number of WUAs (Target/Established)	24/5	29/7			
Number of farmers	Not available	Not available			

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Irriggtion	Schemes	selected.	TOP P	renmingrv	Investigation
nngauvn	Schemes	SUILLUU	101 1 1	i ummai y	mvcsugauon
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3.2 Main Issues Identified and Study Agenda

3.2.1 Analysis of Causes of Incompleteness and Defectiveness of Facilities

By means of preliminary investigation and reference to past documents, analysis of the causes of problems with each irrigation scheme was carried out in terms of incompleteness, structural and functional defectiveness and necessity for rehabilitation. The causes thus analyzed were classified into five (5) classes according to the kind of structures. In all cases, the study was carried out for the following:

- (a) Appropriateness of planning and design (including availability of necessary data and information),
- (b) Construction technique and accuracy (including possibility of corner-cutting in the construction works), and
- (c) Operational condition of structures.

A table was prepared listing the structural items, problems with the structures and their causes as shown below:

Structure	Problems	Causes	
Headworks	1) The design discharge cannot be taken	1) Sediment exists in front of intake	
	because of sediment in front of intake.	and/or scouring sluice and settling	
	2) The river water level cannot be	basin is not provided or it is	
	maintained as designed.	malfunctioning.	
	appropriately made	2) CIVII WORKS (Intake Well, etc.) are damaged or defective	
	4) Operation of gates is difficult due to	3) Steel gates or other metal	
	damage of gates	structures are damaged or	
	5) Intake discharge cannot be measured	deteriorated.	
	accurately.	4) No proper maintenance and repair	
		is being executed.	
		5) No measuring devices (even	
		gauging) are provided.	
Free Intake	1) The design discharge cannot be taken	1) No fundamental measures, such as	
	because of 1) lowering of river water	provision of weir, are undertaken	
	intervel and II) sedimentation in front of	2) No removal of sedimentation	
	make.	located at or in front of intake is	
		undertaken.	
Canal and related	1) Irrigation water cannot be conveyed to	1) This is due to seepage loss,	
structures	the tail of the canal.	obstruction of flow by sediment,	
	2) Contour canal located in the upstream	collapse of canal, etc.	
	section of a system is choked with	2) Sediment is flowing into canal	
	sediment.	from headworks/intake due to	
	3) Structures with a service life of more than 30 years are malfunctioning in	improper operation of scouring	
	some irrigation systems	provision of settling basin	
	4) Irrigation water is not equitably	3) Structures are older than service	
	distributed due to insufficient water	life and no rehabilitation/	
	supply.	replacement has been done.	
	5) Less activity on O&M works.	4) Due to inadequacy of diversion	
		structure, no proper water	
		management could be done.	
		5) Low density of inspection roads,	
		culvert not in working condition	
Terminal facility	1) Irrigation water is not used efficiently	1) This is due to insufficient density	
and on-farm	due to shortage of provision of canals.	of tertiary and quaternary (feeder)	
	2) Drainage is not appropriately	canals.	
	practiced due to shortage of provision	2) This is due to insufficient density	
	of tertiary and quaternary drains.	of tertiary and quaternary drains.	
	3) Transportation of farming input and	3) Provision of appropriate length of	
	output 1s poor.	tarm road 1s necessary.	

Problems and their Causes on Irrigation Facilities found through Preliminary Investigation

Inspection road	1) O&M are difficult due to poor	1) Inadequate proper maintenance
	condition of inspection road along	has been done and related
	main and secondary canals.	facilities are in a damaged state.
	2) Transportation of farming input and	2) Low density or no provision of
	output is poor due to lack of farm road	roads.
	connecting village with inspection	
	road.	

3.2.2 Evaluation Indicators for Rehabilitation Priority

Rehabilitation for the irrigation facilities was to be evaluated by verifying their condition with respect to (i) type, size and condition of headworks/intake, (ii) functional status of canals and their related structures, (iii) condition of terminal facility and on-farm, and (iv) condition of inspection roads.

Evaluation indicators for the rehabilitation that are to be applied for the investigation for all schemes were prepared based on the findings through the preliminary investigation. Evaluation indicators were further examined and finalized mainly referring to the "Technical Guideline, Rehabilitation and Upgrading of Irrigation Network (JICA 1999)".

The following are the principal evaluation indicators for the preparation of prioritization for the rehabilitation.

Facility	Indicators			
1. Headworks	1) Crack/damage on crest			
(Concrete Weir)	2) Erosion and seepage in stilling basin			
	3) Leakage from foundation			
	4) Gate/Leakage from gate			
	5) Sedimentation/mud in front of gate			
	6) Flushing of sedimentation/mud			
	7) Settling basin			
	8) Measuring device			
2. Free Intake	1) Lowering of river water level or degradation of riverbed			
	2) Intake gate/scouring gate			
	3) Leakage from gate			
	4) Sedimentation/mud in front of gate			
	5) Flushing of sedimentation/mud			
	6) Settling basin			

Evaluation Indicators

3. Canals and Related Structures	
3.1 Canals	1) Lined or unlined canal
	2) Lining of canal, broken or cracked
	3) Sedimentation
	4) Seepage loss
	5) Collapse of canal bank
3.2 Regulating, Conveyance,	1) Gate
Crossing, Protection Structure	2) Leakage on gate
	3) Crack on concrete/stone masonry
	4) Scouring on structures
	5) Settlement
	6) Measuring devices
4. Terminal Facilities and On-Farm	1) Leakage on canal
	2) Sedimentation/mud on canal
	3) Density of canal, road
5. Inspection Roads	1) Condition
	2) Density

The method of evaluation of the existing facilities against respective indicators is discussed in Chapter 6.

3.2.3 Technical Specifications for Inventory Survey Work

Draft technical specifications for inventory survey work were prepared in initiation stage and finalized based on the findings of preliminary investigation. The composition and contents of the technical specifications are as follows:

Part-I: Inventory of Irrigation Schemes

- 1.1 General
- 1.2 Structure of Water Source
- 1.3 Irrigation Canals
- 1.4 Terminal Facility and On-farm
- 1.5 Socio-economy and Agriculture
- 1.6 Present Condition of WUAs
- 1.7 Rehabilitation Plan

Part-II: Survey for Estimate of Rehabilitation Works

- 2.1 General Layout
- 2.2 Irrigation Diagram
- 2.3 Schematic Layout of Related Structures
- 2.4 Survey Sheets
- 2.5 Quantity Estimate
- 2.6 Photographs

3.2.4 Standards for Design and Construction

For the Evaluation of existing condition and preparation of measures for rehabilitation, the following criteria for the design and construction of rehabilitation is provisionally shown in the below table:

Facilities	Condition of structures	Measures for recovery of function
Dam	Leakage from foundation	1) Cement grouting
	Sliding of embankment/	1) Re-construction
	insufficient stability of slope	2) Extra embankment
	Damaged/defective spillway/	1) Repair by concrete works
	structure	
	Insufficient capacity of spillway	1) Extend crest length of spillway
	for flood discharge	
	Damages/inadequate function of	1) Repair/replace
	gate, valve, metal works	
Headworks	Damages due to settlement,	1) Reconstruction/renovation
	broken, washed away, deterioration	
	Insufficient intake capacity	1) Widening of gate
		2) Heightening of weir crest
	Influx sediment load	1) Provision of settling basin
		2) Increase of basin barrel
		3) Proper operation of scouring sluice
		gates
	Damages/inadequate function of	1) Repair/replace
	gate and metal works	
Irrigation	Retarded design capacity	1) Dredging, removal of foreign materials
canal		2) Provision of concrete lining
	Collapsed embankment/lining	1) Re-embankment
		2) Provision of concrete lining
	Earth canal	1) Provision of concrete lining with n =
		0.017
Related	Decrepit more than 50 years after	1) Replace/reconstruct
structure	construction	
	Deflection, settlement and no	1) Replace/reconstruct
	function for gate operation	
	Broken/damaged	1) Repair/replace
	Insufficient load capacity for traffic	1) Replace with required design load ($T =$
	(bridge, culvert)	10, 14, 20)
	Clogging	1) Remove foreign materials
		2) Provision of screen
		3) Widening of barrel section

Standards for Design and Construction

3.2.5 Estimation of Work Quantities and Costs

The work quantities for rehabilitation are estimated by means of site survey works and summarized in each work item. The unit prices of each work item are collected through the actual expenditures and/or average of tender and contracted prices of similar works.

CHAPTER 4 FIELD INVESTIGATION

4.1 Execution of Field Investigation

4.1.1 Works by Indonesian Consultant

The inventory survey work was carried out by an Indonesian Consultant on a sub-contract basis (PPA Consultants), who was selected through competitive bidding. The work was commenced on April 11, 2003 and completed in the middle of June 2003.

4.1.2 Procedures

Major assignments entrusted to the sub-contractor were as follows:

- (1) Preparatory work
 - (a) Coordination meeting with Dinas and Balai PSDA for the orientation of the investigation methods, and
 - (b) Collection of data and information, which were required for field investigation, from said offices.
- (2) Field work
 - (a) Collection of basic information regarding water resource facilities to the on-farm level of each irrigation and drainage system, agriculture and agro-economy, and status of WUAs,
 - (b) Field investigation of the existing condition of irrigation facilities, evaluation of their functions and analysis of the cause of problems, and
 - (c) Preparation of the latest irrigation diagram and the schematic structure diagram of each scheme.
- (3) Outcomes
 - (a) Preparation of investigation report, and
 - (b) Estimation of work quantities for rehabilitation work on major irrigation works.

4.2 **Results and Findings**

4.2.1 Irrigation Systems

As discussed in Chapter 3, field investigations were carried out for the collection of information regarding the condition of the following facilities in order to evaluate the functional status of each irrigation system;

(a) Particular information (constructed and rehabilitated year, name of the river and catchment area at the location of the water resource

facilities),

- (b) Water resource facility (dam, headworks, free intake, pumping station),
- (c) Irrigation canals with related structures (main and secondary canals),
- (d) Drainage canals and related structures, and
- (e) Terminal facilities and on-farm

On the basis of the results of the investigation, the irrigation facilities were classified, by the scale of required rehabilitation, into the following four (4) groups:

- A: Facilities are functioning well, and no rehabilitation is needed,
- B: Facilities are partially damaged/deteriorated, and minor rehabilitation is needed,
- C: Facilities are not functioning well, i.e., operation of the system is difficult, and large-scale rehabilitation is needed, and
- D: Facilities are seriously damaged operationally, and replacement or reconstruction is needed.

In order to identify the particular causes of problems and constraints of the existing facilities, detailed evaluation of the facilities was made based on the investigation results as summarized hereinafter.

- (1) Water Resource Facilities of Each Scheme
 - 1) Existing conditions

Type of water resource facilities and their existing conditions are detailed in Table A-4.2.1, and summarized as shown below:

Type of Water Resource	Number	Condition of Facilities				
Facility	INUITIOCI	А	В	C	D	
Headworks	37*	0	14	14	9	
Free Intake	13	0	0	1	12	
Total	50	0	14	15	21	

Condition of Water Resource Facilities

Note: * Number of settling basins provided is 16.

Out of the 50 intake facilities listed above, 3 were out of service due to washed away of weir portion (Rantau Panjang scheme) and serious sedimentation problems with the free intake systems (Silau Bonto and Secanggang schemes) for a long time (more than 5 years).

2) Analysis of causes of problems and constraints

The causes of problems and constraints were analyzed for all the irrigation schemes as detailed in Table A-4.2.2, and summarized as shown below:

(a) Physical operation problem due to damage and deterioration of

structure,

- (b) Lowering of intake water level due to damage and deterioration of weir or degradation of river bed in case free intake,
- (c) Inflow of bed loads into canal due to sedimentation upstream of weir resulting in inadequate function of scouring sluice,
- (d) No provision of settling basin or inadequate function due to sedimentation, and
- (e) Operation and management problems with intake gate and introduction of bed loads and soils into canals.

Secanggang Free Intake

Bandar Sidoras Headworks



Sediments in front of Intake



No Function of Scouring Sluice Gate

- (2) Irrigation Canals and Related Structures
 - 1) Existing Conditions

The features of irrigation canals and related structures are detailed in Table A-4.2.3 to A-4.2.6 and summarized as shown below:

Canals	Length (km)			Condition (Scheme)			
Callais	Lined Canal*	Unlined (Earth)	Total	Α	В	С	D
Main Canal	115 (35.7%)	206 (64.3%)	321	0	9	17	24
Secondary Canal	223 (31.7%)	482 (68.3%)	705	0	3	12	35
Total	338 (33.0%)	688 (67.0%)	1,026	-	-	-	-

Note: * Masonry and concrete lining

Canals	Total Number of	Condition of Canals (%)			
Callais	Structures	А	В	C	D
Main Canal	1,372	0	66	31	3
Secondary Canal	2,790	0	60	34	6

Condition of Related Structures

2) Analysis of causes of problems and constraints

Analysis of causes of problems and constraints for all the schemes is detailed as shown in Table A-4.2.7, and summarized as shown below:

- (a) Sedimentation in canals and obstruction of water flow,
- (b) Damage and deterioration of canal lining and structures,
- (c) Leakage from unlined canals and defective lined canals,
- (d) Difficulty in maintenance of canals due to no provision and/or non-trafficable condition of inspection roads,
- (e) Difficulty in O&M due to poor/malfunctioning structures
- (f) Physical operation problem with regulating structures in water distribution due to deteriorated and/or damaged steel gates, and
- (g) Entering of eroded soil in the excavated canal portion due to no provision of drainage canal and facilities along the canal.

Sei Belutu Scheme

Bulung Ihit Scheme



No Canal Dike and Broken Structure



Broken Structure on Main Canal

- (3) Inspection Road along Canal
 - 1) Existing Conditions

The existing conditions of inspection roads are detailed as shown in Table A-4.2.3 and A-4.2.6, and summarized as follows:

Ratio of Inspection Road to Canal

Inspection Road	Total length of canals (km)	Inspection roads (km)	Ratio (%)
Along Main Canal	320	203	63
Along Secondary Canal	705	356	50
Total	1,025	559	55

Condition of Inspection Roads

Inspection Roads	Number of Schemes provided	Condition of Roads (scheme)			
hispection roads	with Inspection Roads	А	В	С	D
Along Main Canal	21	0	9	9	3
Along Secondary Canal	23	0	0	23	0

2) Analysis of causes of problems and constraints

As seen in the table above, the ratio between the length of irrigation canals with inspection roads and the total length of canals is approximately 50% for both main and secondary canals. In addition, more than 80% of the inspection roads are non-paved and/or damaged, and as a result, most of them are out of service, not only in the wet season but also in the dry season. Low density of inspection roads and their poor conditions give rise to serious problems in operation and maintenance of canals and related structures. They also affect farming practices, especially in conveying farming materials and agricultural products. (Problems and constraints are shown in Table A-4.2.7)

(4) Terminal Facilities and On-farm

The existing condition of terminal facilities and on-farm are detailed as shown in Table A-4.2.7, and summarized as follows:

Existing Condition of Terminal Facilities and On-farm

Terminal Facilities and On-farm	Condition of terminal facilities and on-farm (%)			
Average of 50 Schemes	А	В	С	D
Average of 50 Schemes	0	2	36	62

The existing conditions of terminal facilities and on-farm were found very poor due to low density of canals, farm roads and provision of their related facilities.

Bandar Sidoras Scheme



Less On-Farm Facility

4.2.2 Agriculture and Agro-economy

The agriculture and agro-economic investigations were primarily carried out through the Inventory Survey. However, some basic data and information such as crop yields, crop budget and farm economy were separately collected from statistic data and secondary data from agriculture services offices. The present agricultural conditions of the target irrigation schemes thus identified are presented in Table A- 4.2.8 and summarized as follows:

(1) Present Land Use

The scheme-wise present land uses of the target areas for development are shown in Table A-4.2.8. The overall provincial features are summarized in the followings:

Land Use Category			Area (ha)	Ratio (%)
1.	Potential Area for Irrigation	Irrigated Paddy Fields	72,620	74
		Rainfed Paddy Fields	10,536	11
		Non-paddy Fields	11,838	12
		- Upland Fields	2,297	-
		- Tree Crops Land *1	6,371	-
		- Uncultivated Land	3,170	-
2.	Non-potential Area for Irrigation	Rainfed Paddy Fields	810	1
		Non-paddy Fields	2,338	2
		- Upland Fields	593	-
		- Tree Crops Land	1,221	-
		- Uncultivated Land	524	-
3.	3. Target Area for Development		98 142	100
	(Potential Area + Non-potential Area)			100
4.	4. Non-subject Area for Development *2			-
5.	Registered Area $(3 + 4)$		107,183	-

Overall Present Land Uses of Target Schemes

Note: ^{*1}. Including fish ponds of 643ha, ^{*2}. Including other land use (alih fungsi)

As shown in the table, the potential area accounts for 97% of the target area for the development study and the non-potential area for 3%. The irrigated paddy fields, rainfed paddy fields and non-paddy fields represent 74%, 12% and 14% of the target area, respectively. Tree crop land is the largest land use category in the non-paddy fields representing 8% of the target area. The target area for development under the Study accounts for 92% of the registered area.

(2) Cropping Seasons and Pattern

The principal cropping seasons in the target schemes and in the province are composed of two (2) seasons; wet season and dry season. Although there are some area specific variations due to irrigation water supply schedule or availability, rainfall distribution, drainage/flooding etc., the principal cropping calendars are identified as follows:
Wet season:	November/December - February/March
Dry season:	April/June - July/September

In only one irrigation scheme, the 3rd cropping season for upland crop is reported as being from July to October.

The current cropping patterns introduced in the irrigated paddy fields in the target irrigation schemes are shown in Table A-4.2.8. As shown in the table, the prevailing cropping patterns in the irrigated fields are double cropping of paddy (paddy - paddy/fallow). Cultivation of palawija in irrigated fields is rather limited and a cropping pattern of paddy – paddy/palawija is practiced only in about 30% of schemes, mostly to a limited extent. The most common palawija in the target schemes and province is maize. The prevailing patterns in the target schemes are as summarized below.

Most common: Wet season - dry season: paddy – paddy or paddy/fallow Second common: Wet season - dry season: paddy - paddy/palawija/fallow

In the province the prevailing pattern in the rainfed paddy fields is paddy – fallow, while double cropping paddy is also practiced in areas with abundant rainfall distribution to a limited extent.

(3) Cropped Area and Cropping Intensity

The irrigation performances in the target schemes expressed by cropped area and cropping intensity to the irrigated area were examined based on the monitoring data of provincial and district irrigation agencies obtained through the Inventory Survey.

The results are shown in Table A-4.2.8. The overall cropped areas and cropping intensities of paddy and palawija in the wet and dry season in irrigated paddy fields are:

Saagan	Pa	Paddy		awija	Overall	
Season	Area (ha)	Intensity (%)	Area (ha)	Intensity (%)	Area (ha)	Intensity (%)
Wet Season	62,565	86	100	0.1	62,665	86
Dry Season	42,987	59	3,905	5	46,892	65
Annual	105,552	145	4,005	6	109,557	151

Overall Cropped Area & Cropping Intensity in Irrigated Fields in Target Schemes

As shown in the table, the overall cropped area and annual intensity is estimated respectively at some 109,600 ha and 151% of the total irrigated paddy fields of 72,620 ha.

Naturally, the annual cropping intensities vary largely depending on irrigation schemes due mainly to availability of irrigation water in the dry season. The

target irrigation schemes (50 schemes) are classified based on annual cropping intensities of irrigated paddy in irrigated paddy fields as follows:

Cropping Intensity of Paddy *1	No. of Schemes	Proportion (%)
≧ 180 %	9	18
\geq 150 \sim <180 %	17	34
\geq 120 \sim <150 %	7	14
\geq 100 \sim <120 %	7	14
< 100 %	10	20

Irrigation Schemes by Annual Cropping Intensity of Paddy

Note: *1. Cropping intensity in irrigated paddy fields

Further, there appear to be some differences in the intensities according to the technical level of irrigation schemes. The annual cropping intensities of irrigated paddy by the technical levels of the target irrigation schemes are:

Technical irrigation schemes (25 nos):	53% - 199%; average 153%
Semi-technical irrigation schemes (22 nos):	0% - 200%; average 127%
Non-technical irrigation schemes (3 nos):	total irrigated area only 20ha

In rainfed paddy fields, single cropping of paddy in the wet season is prevailing in the target irrigation schemes. Accordingly, under the present Study, the current cropping intensity in the rainfed paddy fields is assumed to be 100% of paddy in the wet season on the basis of the findings of the Inventory Survey and information provided by the Provincial Agriculture Services Office.

The overall cropped area and cropping intensity in the target area for development are shown in Table A-4.2.8.

(4) Crop Yields and Crop Production

The current paddy yield levels of the individual target schemes are estimated by analyzing yield data obtained through the Inventory Survey, BPS crop cutting survey results by sub-district, BPS statistic information by sub-district reported in *Kabupaten dalam Angka*, and statistic information on paddy yield by district reported by the Provincial Agriculture Services Office. The estimated paddy yields adopted in the present Study are shown in Table A-4.2.9. together with yield data used for the estimates. The estimated paddy yields are summarized as follows:

Cropping	Yield Range	Average	Cropping	Yield Range	Average	Annual
Season	(t/ha)	(t/ha)	Season	(t/ha)	(t/ha)	(t/ha)
Wet Season	3.0 - 5.0	3.8	Dry Season	3.0 - 4.5	4.1	3.9

The yield level of rainfed paddy and palawija is assumed based on the findings of the Inventory Survey and statistical information as follows:

Rainfed paddy:2.5 t/haPalawija (maize):2.5 t/ha (grain, composite maize assumed)

The current crop productions in the individual target schemes are estimated from the estimated cropped areas and crop yields as shown in Table A-4.2.8. The overall features are presented in the following table:

Commodity	Wet Season (ton)	Dry Season (ton)	Annual (ton)
Paddy	309,000	176,000	485,000
Palawija (maize)	10,013	6,725	16,738

Overall Crop Productions

(5) Crop Budget

Crop budgets for major commodities produced in the target irrigation schemes were studied based on the data collected through the Inventory Survey and crop budgets analyses made by the provincial and district food crops agriculture services agencies. Crop budgets for different yield levels of irrigated paddy, rainfed paddy and main palawija (represented by maize composite) thus estimated are shown in Table A-4.2.10 and summarized below:

Commodity	Yield (t/ha)	Net Return/ha (Rp.000)	Commodity	Yield (t/ha)	Net Return/ha (Rp.000)
Irrigated Paddy	3.5	2,570	Paddy (rainfed)	3.0	2,140
	4.0	3,030	Rainfed Paddy	2.5	1,750
	4.5	3,450	Palawija (maize)	2.5	1,840
	5.0	3.930		-	

Financial Net Return per ha Assumed

(6) Farm Economy

The primary objective of the farm economic analysis under the present Study is to examine capacity-to-pays or possible contribution of O&M costs by beneficiary farmers after the project. Further, the limited accessibility to reliable data on land holding and tenure conditions and farm household incomes and expenditures prevent setting typical farms in individual schemes and examining farm economic conditions. Accordingly, the present farm economic analysis has been made on 1ha of irrigated paddy field or rainfed paddy field or upland field depending on the present land use of individual schemes by estimating net farm income from the field. The results of the farm economic analysis thus made is presented in Table A-4.2.11 and summarized below:

Land Liza Catagory	Net Farm Income from Paddy Field (Rp.000)				
Land Use Category	Range	Average			
Irrigated Paddy Fields	1,750 - 6,815	4,558			
Rainfed Paddy Fields	only 3 schemes	1,811			
Upland Fields	only 2 schemes	1,656			

Estimated Net Farm Income from 1ha of Field

(7) Agricultural Support Services and Marketing

The present status of agricultural institutions, support services and food crops marketing in the individual schemes identified through the Inventory Survey are presented in Table A-4.2.12. The major or prevailing issues on the subjects in the province and the target schemes are as follows:

- (a) Almost all the target schemes are served by field extension workers(PPL) posted in or around the scheme. The number of PPLs assigned basically depends on the size of the schemes.
- (b) Accessibility to farm credits depends on irrigation schemes and varies from "no difficulty to receive" to "almost no access to credits".
- (c) No difficulties for procurement of farm inputs and quality seeds are reported in most of the target schemes.
- (d) The most prevailing marketing practice for paddy is "sold after harvest at field" followed by "sold paddy after drying".
- (e) The most prevailing marketing channel for paddy is "paddy to collector or middlemen" followed by "paddy to rice mill".
- (f) Palawija production in and around the target schemes is extremely limited. The reported most prevailing marketing channel is "sold at local market".
- (g) In most schemes, sufficient availability of rice mills is reported under the current marketing practices for paddy.
- (8) Development Constraints

The primary constraint for irrigation agriculture in most of the target schemes is insufficient water availability at on-farm level, specifically in the dry season, due to malfunctioning or destruction of irrigation facilities, decrease of water resources, degradation of river bed and poor O&M of irrigation facilities and systems.

The agricultural development constraints in the individual schemes identified through the Inventory Survey are presented in Table A-4.2.12. The major or prevailing issues in the target schemes are enumerated as follows:

Engineering Issues

"Water shortage in dry season" and "poor O&M at main & 2ndry canals" is the main constraints reported.

Agronomic Issues

"Farmers not following recommended farming practices" and "rat attack" are the agronomic constraints prevailing in the target schemes.

Paddy Marketing Issues

"Low marketing prices" is the most prevailing constraint in paddy marketing followed by "limited bargaining power of farmers".

Farmer Organization (KT) Issues

"Most members are not active", "economic activities are limited" and "managerial capability of KTs are limited" are the main constraints reported.

Extension Services Issues

Constraints reported differ among the target schemes. The prevailing ones are "implementation of extension programs is limited" and "extension activities of PPLs are limited".

4.2.3 Water Users' Associations (WUAs)

The WUA establish target set up by PWRS North Sumatra is 574 in 50 irrigation schemes. The average working area of one WUA is 188 ha with a wide range from 47 ha at the minimum to 1,616 ha at the maximum.

Up to now, 337 WUA have been established in 48 irrigation schemes, while no WUA has been organized yet in the remaining 2 irrigation schemes. At present, the WUA establishment target ratio is 100% in 18 irrigation schemes, 50% to less than 100% in irrigation schemes and less than 50% in 19 irrigation schemes.

Regarding performance of WUA, regular monitoring and evaluation (M&E) is uniformly made in each Provincial Government taking into account organization, water allocation and distribution, irrigation maintenance, financing, physical condition of irrigation and related facilities, and Government program on WUA promotion and development. According to the evaluation result of PWRS North Sumatra, 11 WUA are classified into "Developed", while 201 are "Under developing" and 125 are "Not yet developed". Due to slow progress of legal arrangement, however, only 57 WUA have been legitimized in the local court of justice.

The present condition of WUA as mentioned above is shown in Table A-4.2.13 and summarized as shown below.

WUA Establishment	No. of	No. of	Pe	Performance and Legal Status of Existing WUA				
Target Realization	Scheme	Existing	Devel	oped	Under Dev	reloping	Not Yet D	eveloped
Ratio	Schenic	WUA	L	N	L	N	L	N
75% and more	24	250	8	0	20	115	5	102
50% to 74%	7	44	0	1	5	31	2	5
25% to 49%	6	9	1	0	1	5	0	2
Less than 25%	13	34	1	0	14	10	0	9
Total	50	337	10	1	40	161	7	118

Present Condition of WUA in North Sumatra

Note : L ; Legitimated in local court

N; Not yet legitimated in local court

4.3 Database for Existing Condition of Irrigation Scheme

Existing conditions of irrigation schemes of North Sumatra Province are prepared and presented in ANNEX-II (1/3). (Title: Priority List of Irrigation Schemes for Rehabilitation)

CHAPTER 5 REHABILITATION PLAN

5.1 Basic Concepts

5.1.1 Rehabilitation Plan

For the proper management of irrigation schemes, it is necessary to carry out improvement of irrigation infrastructures, to operate and maintain the systems appropriately, and to upgrade the organization of management of water resources and water supply, farming technology, etc. as well as to recognize the significance of irrigated agriculture. For this, important items to be considered are (i) preparation of a rehabilitation plan in due consideration of both aspects of agriculture and organization, (ii) improvement of crop productivity which can be capable of paying the irrigation management fee, and (iii) strengthening of water users' associations.

The basic concepts for the formulation of rehabilitation of facilities to recover the irrigation system are itemized as follows:

- (a) Provision of appropriate irrigation infrastructures with sufficient sustainability, which does not require heavy rehabilitation works during the service life of the systems as far as routine O&M are practiced,
- (b) Securing of design discharge throughout the irrigation system and equitable distribution of canals in order to remove constraints of O&M,
- (c) Provision of user-friendly and easy-operation and maintenance canal structures with sufficient water level at each outlet to irrigate farmlands,
- (d) Proper arrangement of measuring devices and outlets (diversion structure/turnout), considering water distribution methods and easy O&M,
- (e) Provision of inspection roads along main and secondary canals for O&M and farm machinery,
- (f) Provision of farm roads in on-farm level connecting with inspection roads and villages, and
- (g) Provision or renewal of irrigation offices and gate-keeper houses at water resource facilities and canals with transportation equipment.

5.1.2 Agriculture Plan

The basic concepts applied for the formulation of the agriculture plans for the present Study are as enumerated below.

- (a) The formulation of agriculture plans placing emphasis on paddy production envisaging contribution to food security in Indonesia and setting a double cropping of paddy as a basic cropping pattern,
- (b) The irrigation agriculture performances and experiences in the advanced schemes among the target schemes of the Study in each province have been to be fully taken into consideration in the formulation of agriculture plans,
- (c) The plans envisage improvement of crop productivity and realization of an increase of cropping intensity through the efficient use of irrigation water,
- (d) The current agricultural status including crop selection, cropping schedule, cropping pattern and cropping intensity in the target schemes should dully be assessed and taken into planning so that the formulated plans will be sustainable in accordance with beneficiaries intentions and capabilities,
- (e) The rational utilization of irrigation water resources is to be emphasized. In this regard, the increase of cropping intensity with the available water in the 3rd cropping season (cropping season following or between the double crops of paddy) to a possible extent is envisaged. The consensus of beneficiaries should be sought at the project detail design stage for this, and
- (f) It is assumed that there will be no constraints on farm labor availability as almost all the target areas for development are existing paddy fields.

5.1.3 Institutional Aspects

(1) New Irrigation Management Policy

In line with the irrigation substance of the draft Law of Water Resources, all irrigation management activities of main and secondary systems of irrigation schemes are under the full responsibility of the Government and/or Regional Governments. Based on the participatory irrigation management policy that is a new concept in the draft Law of Water Resources, farmers can participate in any activities related to the above systems as long as they have established WUA and their willingness, capacity and capability are sufficient to do.

Operation and maintenance works of tertiary irrigation systems including fund arrangement are the full responsibility of WUA. Although the Government, in its Bill of Law on Water Resources, proposed the House of Representatives (DPR) that tertiary irrigation system development cost shall be shouldered by WUA, DPR has made several counter proposals to share fully or partly the said cost by the Government. This issue is under deliberation in DPR at moment.

(2) Regional Government Capacity Building on Irrigation Management

In North Sumatra, Balai PSDA as branch offices of PWRS is responsible for water resources management and technical assistance to district/municipal government which is principally responsible for irrigation water usage management. At present, the respective district/municipal governments allocate 1,676 staff as a whole to manage 770 public irrigation schemes throughout the province, but actual number of staff is only 317. In other words, 80.5% of positions are vacant. Considering the necessary manpower requirements for covering a series of irrigation management activities, therefore, the concept of district/municipal government capacity building in this study is to improve the existing staff capability and also to fill up the vacancies of key positions.

(3) WUA Establishment Acceleration

In the participatory irrigation management policy, WUA is considered the fundamental body of irrigation water users. In connection with this, the target of WUA establishment set up by PWRS North Sumatra should be fully realized in parallel with recovery of function of irrigation system. At moment, 237 WUA in 32 irrigation schemes have not been established yet. In institutional planning to accelerate WUA establishment, therefore, primary attention is to be paid to these irrigation schemes.

(4) WUA Strengthening

Out of 337 WUA already established in 48 irrigation schemes, the current performance of 140 WUA is evaluated as "Under developing" and 87 as "Not yet developed". This monitoring and evaluation record clearly reveals that most WUA needs to improve their capacity to manage organization, capability to collect and expense member's fee, and activities to conduct operation and maintenance of tertiary irrigation system.

The focal point in formulating institutional plan, therefore, is to be technical assistance to "Under developing" and "Not yet developed" WUA to overcome its weakness.

(5) Setting-up of WUA Federation

Since the Government Regulation No. 77/2001 on Irrigation was enacted, it was promoted to organize higher-level institutional bodies of irrigation water users, i.e. federation of WUA (FWUA) on secondary canal basis and main federation of WUA (MWUA) on apex scheme-level basis. Although the core of these

higher-level bodies should be WUA and irrigation water users themselves should act as the main player in organizing such bodies, actual promotion activities for FWUA/MWUA establishment in North Sumatra seem to depend on top-down procedures through the channel from the Ministry of Home Affairs to district/municipal governments following the above regulation and the previous Irrigation Management Policy Reform (PKPI) backed up by the World Bank. Such top-down activities result in that there has been less opportunity of consulting with WUA representatives about FWUA/MWUA establishment.

In institutional planning under this study, therefore, the basic concept is to be set up in such way that the role of reasonable FWUA/MWUA is to coordinate member WUA concerning common rule of water allocation to each WUA as well as to collect ideas and data from WUA as input materials to district/municipal governments.

(6) WUA Activity in Operation and Maintenance Stage

After completion of rehabilitation work, WUA is responsible for operation and maintenance of tertiary system of irrigation scheme. In this regard, WUA's members should master necessary skills required for optimum operation and maintenance of related irrigation facilities to practice irrigation water distribution plan.

In formulating WUA activity plan to meet such requirements, attention is paid to provide WUA's members with on-the-job training on operation and maintenance of tertiary irrigation system once irrigation water can be distributed to the concerned tertiary block. Further activity is considered to be guidance on collection and expenses of WUA member's fee as well as preparation of annual financial report.

5.2 Irrigation Facility

5.2.1 Criteria for Rehabilitation

(1) Classification of rehabilitation in estimating cost

Classification of rehabilitation is based on the degree of defectiveness and deterioration as follows:

- (a) Class A: Facilities are functioning well: In this case, no rehabilitation cost is incurred.
- (b) Class B: Facilities are partially damaged/deteriorated, and minor rehabilitation is needed. In this case, rehabilitation cost is

estimated to be 30% of the new construction cost.

- (c) Class C: Facilities are not functioning well, i.e., operation of the system is difficult and large-scale rehabilitation is needed. In this case, the rehabilitation cost is estimated to be 50% of the new construction cost.
- (d) Class D: Facilities are seriously damaged with respect to operation. In this case, the rehabilitation cost is estimated to be equivalent to the replacement and new reconstruction cost.
- (2) Headworks

2)

1) Design criteria for rehabilitation of civil works

(a) More than 50 years:	Class D is applied,			
(b) From 30 to 50 years:	Class C is applied,			
(c) From 20 to 30 years:	Classes B to D are applied depending on the			
	condition, and			
(d) Less than 20 years:	Classes B to D are applied depending on the			
	condition.			
Design criteria for rehabilitation of steel gates and other metal works				

- (a) More than 20 years: Class D is applied, and
- (b) Less than 20 years: Class C to D are applied depending on the condition.
- 3) Other design criteria
 - (a) Provision of a settling basin with a sand flush function
 - (b) Provision of a device for measuring discharge,
 - (c) Provision of an operation bridge, and
 - (d) Provision of a water level gauging staff.
- (3) Canals and related structures
- 1) Proposed ratio of canals and structures

The proposed ratio of the canal length and number of related structures to the original design is determined as shown in the following table:

Canal works	Classification of canal	Technical	Semi-technical	Non-technical
Canal length	Main canal	1.0	1.1	1.2
Canal lengui	Secondary canal	1.0	1.2	1.5
No. of structures	Main canal	1.1	1.2	1.3
	Secondary canal	1.2	1.35	1.5

Proposed Ratio of Canals and Structures

 Standardization of canals based on discharge in m³/sec (refer to the Irrigation Design Standard prepared by DGWRD in 1986)

Construction costs for lining canals have been estimated based on the following classified standards:

	Standar	(Unit: m ³ /sec)			
0 - 0.5	0.5 - 1.0	1.0 - 1.5	1.5 - 2.0	2 - 4	4 - 6	6 - 8
8 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	more than 35

Notes: Canal; lined with concrete, side slope; 1:1.25, longitudinal slope; 1/5,000, n = 0.017

3) Design criteria for inspection roads

It is proposed to provide inspection roads with gravel metaling along the main and secondary canals. The total width of the inspection road is 5.0 m and the effective width is 3.0 m both main and secondary canals. The thickness of gravel metalling is 0.20 m.

4) Standard canal section

For the standard canal section including inspection road, refer to the Irrigation Design Standard prepared by DGWRD in 1986. Typical canal sections for cost estimation are as follows:

- (a) Type A: New construction,
- (b) Type B: Main canal without existing inspection road,
- (c) Type C: Main canal with existing inspection road,
- (d) Type D: Main and secondary canals along existing provincial road,
- (e) Type E: Secondary canal without inspection road, and
- (f) Type F: Secondary canal with existing inspection road.
- 5) Design criteria for rehabilitation of canals

Cost estimation for rehabilitation of canals is based on the typical canal section and the degree of defectiveness and deterioration as follows:

- (a) Based on the above type of canal section, cost is estimated at the assumption of concrete lining reinforced with PVC fiber mesh,
- (b) More than 20 years: Class D is applied,
- (c) From 10 to 20 years: Class C is applied, and
- (d) Less than 10 years: Classes B to D are applied depending on the condition.
- 6) Related canal structures

Cost estimates for rehabilitation of related structures have been based on the same standards as headworks, both for civil and metal works.

- 7) Other design criteria
 - (a) Provision of a watercourse section to prevent inflow from outside of the canal during rainfall,
 - (b) Provision of discharge measuring devices for appropriate water management,
 - (c) Replacement or renewal of bridges or crossing structures with required design loads (T-10 to T-20 class),
 - (d) Provision of hectometer, kilometer posts and name plates for structures for operation and maintenance, and
 - (f) Provision of safety facilities for traffic and humans (safety rope, handrail, etc.).
- (4) Terminal facilities and on-farm

A design criterion for terminal facility and on-farm is as follows:

- (a) Provision of tertiary and quaternary (feeder) canals and related structures with appropriate density,
- (b) Provision of farm roads with appropriate density, and
- (c) Provision of field drains with appropriate density.
- (5) Project facilities

It is proposed that gate-keeper houses at major diversion structures with an area of 50 m^2 be provided.

- (a) From 1,000 ha to 2,000 ha: 2 gate-keeper houses,
- (b) From 2,000 ha to 5,000 ha: 4 gate-keeper houses,
- (c) From 5,000 ha to 10,000 ha: 8 gate-keeper houses, and
- (d) More than 10,000 ha: 10 gate-keeper houses.
- (6) Office equipment

It is proposed that field cars (4WD, 3,000cc class), motor cycles (125cc class), and computers, copy machines and consumables as office equipment be provided.

For field cars,

- (a) From 1,000 ha to 5,000ha: 2 field cars,
- (b) From 5,000 ha to 10,000 ha: 5 field cars, and
- (c) More than 10,000 ha: 7 field cars.

For motor cycles

- (a) From 1,000 ha to 2,000 ha: 10 motor cycles,
- (b) From 2,000 ha to 5,000 ha: 20 motor cycles,
- (c) From 5,000 ha to 10,000 ha: 30 motor cycles, and

(d) More than 10,000 ha: 40 motor cycles.

For computer, copy machine and consumables

- (a) From 1,000 ha to 2,000 ha: Rp. 100 million,
- (b) From 2,000 ha to 5,000 ha: Rp. 150 million,
- (c) From 5,000 ha to 10,000 ha: Rp. 250 million, and
- (d) More than 10,000 ha: Rp. 400 million.

5.2.2 Availability of Water Resources

It is understood that the cropping intensity of some irrigation schemes in North Sumatra Province is not necessarily 200%. In other words, cropping intensity in the rainy season is more or less 100% in any schemes, whereas cropping intensity in the dry season is sometimes less than 100% due mainly to the shortage of river runoff.

It is a common practice in the planning stage to determine the irrigation area in the wet and dry season by means of a water balance study between the water demand of the proposed cropping pattern and the availability of water resources. As such information is not available, it is not possible to review the cropping intensity through previous study reports.

The Ministry of Settlement and Regional Infrastructure has been preparing the database for water resources and irrigation systems called "WRDC". The WRDC was established in the year 2001. However, the autonomy, accountability and responsibility are still unclear. It is also understood that discharge measurement of river runoff is not being done systematically in this country. As a result the database on water resources has not been prepared by WRDC, and consequently it was not possible to collect information necessary for carrying out a water balance study.

Consequently, information on water resources and irrigable area of the schemes furnished by the Dinas PSDA/project offices have been adopted for the determination of the possibility for water supply for the schemes in Pre-F/S stage.

5.2.3 Development Plan

(1) Countermeasures for recovery of function

The existing condition of irrigation systems from the water resource facilities to the terminal facilities and on-farm has been examined and analyzed for the establishment of a rehabilitation plan. Problems and constraints are detailed in Section 4.2.1 and its countermeasures for the recovery of function of the facilities are proposed as summarized below:

	Causes of Problems and Constraints	Countermeasures for Recovery
Wa	ter resource facility	
1.	Weir, flood way, scouring sluices: civil works	
	- Crack or damage on weir crest	Repair by chemical/cement grouting or fillin concrete
	- Leakage from foundation, settlement of weir	Grouting or adding concrete on weir crest
	- Inclination, settlement and deflection of pier	Reconstruction
	- Settlement and washed away apron and/or stilling basin	Reconstruction
	- Fallen down, inclined, or washed away retaining wall	Reconstruction
	- Washed away riprap, concrete block	Provision of additional protection works
	- Physical O&M problems due to deterioration	Replacement and reconstruction
2.	Weir, flood way, scouring sluices: gate and metal w	orks
	- Leakage from guide frame	Repair or replacement of guide frames seal rubber and other members
	- Lower strength against design requirement	Replace or strengthen with additional steel members
	- Physical operation problem due to deflection, breakage, deterioration	Replacement of parts, replacement of all, paint, oil t hoist gear
3.	Intake, free intake: civil works	
	- Insufficient diversion water due to sedimentation at and around intake	Removal of sediments through proper maintenanc and operation of scouring sluices and intake gate during flood
	- Physical operation problems due to breakage of structure	Repair or replace with new construction
	- Inflow of bed loads into canal	Proper operation of scouring sluice, provision of settling basin
4.	Intake: gate and metal works	
	- Leakage from gates and guide frames	Repair or replace guide frames and other members
	- Physical operation problems due to breakage or deterioration	Replace or strengthen with additional steel members
5.	Others	
	- Difficulty in water distribution/water management	Provision of measuring devices, water level gaugin staff, and proper operation of intake gate
	- Difficulty in O&M	Provision of access road, operation house, inspectio bridge and necessary facilities/equipment for O&M
Irr	igation Canal and Related Structure	
1.	General	
	- Sedimentation and/or obstruction of flow	Removal of sediment/water plants by periodica maintenance
	- Leakage	Replacement of embankment material by imperviou

Countermeasures for Recovery of Function

(to be continued)

	- Collapse	Provision of drainage ditch along canal, provision of cross drain, redesign of canal slope
	- General O&M problems	Provision of inspection roads, kilometer and hectometer posts, name plate of respective structures
2.	Canal Works	
	- Leakage, cracks, collapse	Replace with concrete canal lining with provision of under and side drains
	- Physical O&M problems due to deterioration, unlined	Provision of concrete lining, inspection roads
3.	Related Structures	
	- Poor function of discharge control facilities (diversion structure, off-take) due to deterioration of structure both civil and gate works	Repair or reconstruct structure with water management facilities such as measuring devices, staff, gauge
	- Poor function of water conveyance facilities (siphon, aqueduct, drop) due to deterioration, breakage, leakage	Repair, replace, provide protection facilities, maintenance facilities (blow-off for siphon)
	- Poor function of canal crossing structures (bridge, culvert, cross drain) due to deterioration, clogging by foreign materials, narrow width for traffic	Reconstruct bridge based on actual traffic load, remove clogged materials/sediments, reconstruct cross drain based on actual site condition
4.	O&M Matters	
	 Difficulty in O&M due to no or less density of inspection roads 	Provision of inspection roads with all weather type design, execution of periodical maintenance of canal and roads
	- Difficulty in water distribution and management	Review of irrigation area, irrigation diagram and field water requirement and redesign of canal, if required
	- Physical operation problems due to breakage of structure	Repair or replace with new construction
Dra	iinage Canal	
Nat	ural River/Drainage Canal	
	- Inundation of paddy fields during rainy season due to drainage problem	Provision of drainage canals and sluices
	- Physical drainage problem due to sediments, water plants and obstructive materials inside drainage canal	Periodical maintenance
	- Physical operation problems due to insufficient number of related structures	Provision of sluices, bridges, culverts, protection works, etc.
Ter	minal Facilities and On-farm	
Fac	ilities/Water Management	
	- Physical operation problems due to low density of irrigation and drainage canals in a tertiary block	Provision of sufficient irrigation and drainage canals with related structures
	- Physical operation problems during planting and harvesting	Provision of farm roads for operation of farm machinery, conveyance of harvested paddy
	- Physical operation problems of water management due to poor land leveling	Execution of land leveling and re-layout of irrigation and drainage canals

(2) Rehabilitation plan

1) Basic Concept for Rehabilitation Plan

Rehabilitation plans are to be designed for all the schemes in accordance with the rehabilitation criteria discussed in Section 5.2.1. For the rehabilitation plans the following measures were considered and applied.

Water Resource Facilities

(a) Type of water resource facilities

The existing intake method of free intake is replaced by the headworks type to prevent inflow of sediment loads into the canal and to provide a measure for the bed river degradation in the future. (12 schemes)

(b) Provision of settling basin to all the headworks

As analyzed in the previous section, the major problems of operation and maintenance of irrigation canals is caused by sediments that flow into the canal from the river not only during the flood time but also under the normal flow condition of the river. To prevent sediment loads flowing into the irrigation canal, it is proposed to provide settling basin structures for all the headworks except where the intake method is direct from the dam reservoir. (34 schemes)

(c) Provision of integrated headworks

In order to supply irrigation water throughout the year from adequate and stable water resources, the following existing intake structures (free intake system) in the Asahan District are to be combined and designed as an integrated headworks. The source of irrigation water is R. Silau with a catchment area of 150 km^2 at the proposed headworks sites.

Silau Irrigation System: Sungai Silau, Sijambi

Bunut Irrigation System: Panca Agra, Serbangan, Silau Bonto

(d) Replacement of steel gates for scouring sluice and intake

One of the major causes of sedimentation in front of the intake and of inflow into the irrigation canal is judged to be the physical operation problems of both steel gates due to damage and deterioration. To remove this major cause, replacement and/or large scale repair of gates is to be executed.

(e) Provision of inspection bridge and measuring devices

The following facilities are to be provided with appropriate operation and maintenance as well as discharge control structures:

- Inspection bridge having effective width not less than 3.5 m.
- Measuring devices such as gauging staff, measuring devices with instruments.

Canals and Related Structures

(a) Provision of concrete lining

In order to make provision for proper water management and to decrease O&M costs, including repairing works, it is proposed to provide concrete lining for both the main and secondary canals for rehabilitation of non-lined canals.

(b) Provision of inspection road

In order to carry out proper O&M and to contribute to the agricultural activities and distribution of products, the inspection roads along the canals are to be rehabilitated or newly provided. The road design should be all-weather type with pavement (effective width: 3.5 m in minimum).

(c) Rehabilitation and provision of related structures

In order to execute proper water management and O&M, the related structures are to be rehabilitated and/or newly provided. Steel gates associated with the control structures (diversion and off-take structures) are to be replaced by new ones in cases where they have deteriorated (over the age of their service design) and/or physically damaged/not functioning.

Terminal Facility and On-Farm

In order to support proper water management and post harvest activities, the terminal facilities including canals, farm roads and related structures are to be rehabilitated or provided new.

2) Features of rehabilitation plan

Based on the basic rehabilitation plan mentioned above in 1), rehabilitation designs at the pre-feasibility study level were made for the irrigation systems from the water resource facilities to terminal facilities including on farm development. The features of the rehabilitation plan for each scheme are shown in Tables A-5.2.1 and Figure A-5.2.1, respectively.

5.2.4 Cost Estimates

Cost estimates for the rehabilitation works have been made for the following five items:

- (1) Direct construction cost for rehabilitation
 - (a) Water resource facilities
 - (b) Irrigation canals and related facilities
 - (c) Drainage canals and related facilities
 - (d) Terminal facilities and on-farm
 - (e) Project facilities (Field office and office equipment)
- (2) Work quantities

Work quantities for the rehabilitation including reconstruction and/or new construction have been estimated based on the field investigation and the rehabilitation design described in Section 5.2.1.

(3) Unit prices

Material costs, labor wages, and unit prices of respective construction items have been collected through the field investigation. In addition to the survey results, the actual engineer's cost estimates were collected from similar projects under MOSRI. After examination of the costs, all the costs were found to be the same or similar. Therefore, the same unit prices have been applied for the cost estimates.

(4) Cost estimates

Costs for the rehabilitation works for 50 schemes have been estimated and the results are shown in Tables A-5.2.2. Figures shown in the table below indicate the rehabilitation cost per hectare at a maximum of 5,428 US\$/ha (or 43.4 million Rp.) and a minimum of 1,164 US\$/ha (or 9.64 million Rp.).

Number of Schemes	Unit	Minimum	Maximum	Average
50	US\$/ha	1,164	5,428	2,644
50	million Rp./ha	9.64	43.4	21.9

Rehabilitation Cost per Hectare

Note: Conversion rate US\$ 1.00 = Rp. 8,279 as of May 2003.

5.3 Agriculture Plans

5.3.1 Agriculture Land Use Plans

The approaches employed in the planning of future land uses under the Study are as follows:

- (a) The subject areas for the present agriculture land use plans are the irrigation development areas determined through the irrigation development study,
- (b) Basic principles applied for the land use planning of the subject areas are:

Present Land Use	Land Use Plan
Irrigated Paddy Fields	Irrigated Paddy Fields
Rainfed Paddy Fields	Irrigated Paddy Fields (converted)
Non-paddy Fields	
- Upland Fields	Irrigated Paddy Fields (converted)
- Uncultivated Land	(net area: 70% x gross area)
- Tree Crops Land	Not converted

Basic Principles for Land Use Planning

- (c) As shown in the table, tree crops lands have been excluded from the subject area for the rehabilitation plans because of farmers general reluctance towards the conversion of tree crops lands to paddy fields identified through the Inventory Survey.
- (d) No changes in areas have been assumed in the existing paddy fields.

The agricultural land use plans of the subject areas in the individual target schemes are shown in Table A-5.3.1. The overall features by province are as follows:

Land Use Category	Present/Be	fore Project	Future Plan		
Land Use Category	Area (ha)	Ratio (%)	Area (ha)	Ratio (%)	
Irrigated Paddy Fields	72,620	80	88,576	98	
Rainfed Paddy Fields	11,346	13	0	-	
Upland Fields	2,890	3	0	-	
Uncultivated Land	3,694	4	0	-	
Non-irrigable Land *1	-	-	1,974	2	
Total	90 550	100	90 550	100	

Overall Land Use Plans of Subject Areas

Note: *1 Non-paddy fields (gross) - Converted paddy fields (net)

As shown in the table, the increase of irrigated paddy fields of some 16,000 ha (increase of 22% from the present level) is planned as a whole under the Study.

5.3.2 Planned Cropping Pattern and Schedule

Under the present Study, the selection of crops to be introduced in the planned cropping patterns in the target irrigation schemes has been made basically observing the current cropping patterns prevailing in the target schemes, which represent farmers intention and capabilities to a certain extent. In addition, the availability of irrigation water and the rational use of irrigation water among beneficiaries and area specific needs for selection of crops, if any, have been taken into consideration. The crop selection has been made as follows:

(a) The introduction of double cropping of paddy is envisaged in all the target schemes based on the farmers' preferences for crops and the volume of market demands, and

(b) Maize is selected as a representative palawija to be introduced in the planned cropping pattern since it is the most common palawiaja currently cropped in and around the target schemes. Further, from the demand/supply conditions and profitability of crops, hybrid maize appears to be the most promising crop among palawija. Similarly, maize is the most promising palawija in terms of the national economy.

The two basic cropping patterns (Pattern A & B) have been formulated on the basis of: (i) study of the current irrigation performances in the target areas and (ii) inapplicability of a cropping pattern of continuous triple cropping of paddy (paddy-paddy-paddy) because of the danger for serious infestation of pests & diseases and because of the time required for periodical O&M of irrigation facilities; as explained in the following table:

Basic Cropping Patterns

Dottorm	Plan	ned Cropping Patte	Subject		
Pattern	Wet Season	Dry Season I	Dry Season II	Irrigation Schemes	
Pattern A	Paddy (100%)	Palawija	Paddy (100%)	Sufficient water in dry II	
Pattern B Paddy (100%) Fallow Paddy/palawija Insufficient water in dry II					
Note: *1 Wat gaggan: Oot/Nov, Jan/Eah: Dry I: Eah/Mar, Apr/May, Dry II: May/Jung, Aug/San					

e: ¹Wet season: Oct/Nov-Jan/Feb; Dry I: Feb/Mar-Apr/May; Dry II: May/June-Aug/Sep.

*² (%): cropping intensity in the season

A cropping pattern of paddy (intensity 100%) - fallow - paddy (intensity <100%) in irrigation schemes with insufficient water supply in the dry season II has not been planned. The plans aim at efficient use of irrigation water as stated in the basic concepts (Section 5.1.2). The planned cropping patterns for the individual target schemes are presented in Table A-5.3.2.

5.3.3 Planned Cropped Area and Cropping Intensity

In accordance with the planned cropping pattern and the selected crops discussed earlier, the target cropped areas and cropping intensities in the target schemes under the present Study have been planned in accordance with the following manners.

- (a) Target cropped areas and cropping intensities have been determined on the basis of current and past cropped areas and cropping intensities in individual schemes and by setting a minimum target for the intensity of paddy and an envisaged target for the overall intensity,
- (b) The minimum target intensity of paddy is set to 150% and an increase of more than 20% of the overall intensity from the current level is targeted,
- (c) In addition, the introduction of palawija (represented by maize) to the minimum extent of 5 to 10% in all schemes is envisaged, and

(d) In accordance with the above points, the target cropping intensities for individual schemes have been determined as presented in Table A-5.3.3.

In accordance with the planned cropping pattern and the selected crops discussed earlier and the target cropping intensities, the cropped areas in the target schemes have been planned as presented in Table A-5.3.2 and summarized in the following table:

Cron		Cropped.	Cropping Intensity (%)			
Стор	Wet	Dry I	Dry II	Annual	Range	Overall
Paddy	88,576	0	69,061	157,637	150 - 200	178
Palawija	0	3,396	6,123	9,519	5 - 30	11
Total	88,576	3,194	74,598	166,368	155 - 200	189

Overall Features of Cropped Area & Cropping Intensity

The overall increase of annual cropped area of some 32,900 ha of paddy and 2,500 ha of palawija from the present level is planned under the Study. Further, an overall increase of paddy cropping intensity of 33% and of palawija intensity of 5% in irrigated fields is envisaged.

5.3.4 Target Crop Yields and Crop Production Plans

Target crop yields have been estimated by assuming that all the target irrigation schemes will be developed or upgraded to the level of the existing advanced irrigation schemes and that intensification of the farming practices will be carried out by beneficiary farmers. Target yields of paddy have been assumed for individual schemes based on the current yield levels in the schemes and the yield levels in advanced irrigation schemes as shown in Table A-5.3.2 and are summarized below:

Cropping Season/Crops	Target Yield		
	Range	Overall Average	
Wet Season Paddy (GKG)	4.5 - 5.5 ton/ha	5.1 ton/ha	
Dry Season Paddy (GKG)	4.5 - 5.5 ton/ha	5.1 ton/ha	
Maize (hybrid; grain)	-	5.0 ton/ha	

Target Yields under the Study

The overall average target yield level of 5.1 t/ha is an increase of 1.2 t/ha from the present overall average yield of 3.9 t/ha (including rainfed paddy).

On the basis of the target crops yields and the planned cropping pattern, the with-project crop production plans have been formulated for individual target schemes as shown in Table A-5.3.2. As shown in the table, the production increase of 312,000 tons of paddy as a whole is estimated under the with-project condition.

5.3.5 Crop Budgets

The planned crop budgets estimated based on the planned farming practices of paddy and palawija are detailed in Table 4.2.10 and summarized in the following table:

Crong	Return (Rp.000)		Crong	Return (Rp.000)	
Crops	Gross	Net	Crops	Gross	Net
Paddy			Maize (hybrid)		
- Yield 5.5 t/ha	7,150	4,420	- Yield 5.0 t/ha	5,500	3,490
- Yield 5.0 t/ha	6,500	3,930			
- Yield 4.5 t/ha	5,850	3,450			

Planned Crop Budget per ha

5.3.6 Farm Economy

The farm economic analyses under the present Study have been made to examine capacity-to-pays or possible contribution of O&M costs by beneficiary farmers after the project. The analysis was made on 1 ha of irrigated paddy fields or rainfed paddy fields depending on the present land use of individual schemes by estimating net farm income from the fields as discussed earlier in Section 4.2.2.

The results of the farm economic analysis made on the individual schemes are presented in Table A-5.3.4 and summarized below:

	Net Farm	Incremental		
Land Use Category	With-Pro	ject	Present	Net Income (Rp.000)
	Range	Average	Average	Average
Irrigated Paddy Fields	5,484 - 9,767	7,341	4,558	2,783
Rainfed Paddy Fields	only 3 schemes	5,599	1,811	3,789
Overall		7,170	4,278	2,892

Estimated Net Farm Income from 1ha of Field

5.4 Institutional Capacity Building

(1) District/Municipal Government Capacity Building Plan

The focal point of capacity building of district/municipal district government staff in charge of irrigation management is to make staff understand fully the new participatory irrigation management policy and also the difference from the previous irrigation management policy reform based on hand-over of authority to water users. For this purpose, technical guidance seminar will be held in each capital town/city by facilitators consisting of PWRS task force team, consultant and if necessary staff of central line ministries. Materials to be distributed to all attendants are outline papers of new Law on Water resources, Amendment of Government Regulation on Irrigation (Regulation No.77/2001 to be modified) and relevant ministerial decrees of Ministry of Settlement and Regional Infrastructure, Ministry of Home Affairs and Ministry of Finance.

Following this technical guidance seminar, workshop is to be held to review and modify decrees of Regent/Mayor related to water resources and irrigation as well as job descriptions of officials concerned of district/municipal government about irrigation management in line with the spirit of new Law on Water Resources. In this workshop, discussion should be made among facilitators and attendants regarding how to put the priority over fulfillment of vacant posts taking into account salient features of irrigation schemes located in the concerned district/municipality.

Such seminar and workshop for the technical guidance need to be held in all districts and municipalities in the province. To ensure effective and efficient dissemination of the new irrigation management policy, however, the technical guidance should be carried out with more compact scale. Considering the availability of capable facilitators for technical guidance, therefore, the technical guidance is to be started from the following districts and municipalities where the selected 141 irrigation schemes are located:

Mandaling Natal, Tapanuli Selatan, Tapanuli Tengah, Toba Samosir, Labuhan Batu, Asahan, Simalunggun, Langkat Districts and Binjai Municipality.

(2) WUA Strengthening Plan

The main objective of WUA strengthening is to make all member farmers be aware of role of WUA and responsibility of its membership in the concerned irrigation scheme. In this connection, the basic concept of WUA strengthening plan is to identify weak points of WUA activities by members themselves on the participatory basis by recapturing monitoring and evaluation record of WUA performance focusing on administrative, financial and operational aspects.

The main targets of WUA strengthening plan are WUA's board of directors and member farmers. The plan consists of WUA awareness raising workshop and technical assistance to WUA concerning capacity to manage organization, capability to collect and expense member's fee, and activities to conduct operation and maintenance of tertiary irrigation system. As for technical assistance, class room training, on-the-job training and mass guidance will be combined in on package program to meet technical assistant requirements of the respective WUA. Although the target of this plan is 201 "Under developing" WUA and 125 "Not yet developed" WUA, the package program should be implemented for 140 "Under developing" WUA and 87 "Not yet developed" WUA.

(3) WUA Federation Setting-up Plan

In the irrigation scheme where WUA federation has been organized, its role and function are to be confirmed through review of its article from the viewpoint of new participatory irrigation management policy. Also hearing is to be made to representatives of the federation focusing on who took an initiative to establish the federation and whether or not the establishment of federation was backed up by the general will of WUA in the concerned irrigation scheme. If the article is based on Government Regulation No. 77/2001 on Irrigation and relevant ministerial decrees as well as less connection and coordination with member WUA are found, it is confirmed whether the representatives of federation need technical support from Regional (provincial/district) Government for modification of its article and resetting-up of FWUA/MWUA.

For the case of new establishment of FWUA/MWUA, socialization workshop is to be held by the Provincial task force team aiming in order to make WUA and its members understand fully the necessity as well as the role and function of FWUA/MWUA in line with the irrigation substance of new Law on Water Resources. To support WUA for smooth establishment and initial setting-up of FWUA/MWUA, the Provincial task force team is to act as a facilitator.

Although WUA federation setting-up plan needs cover 50 irrigation schemes, the first priority should be given over 18 irrigation schemes.

(4) WUA Establishment Acceleration Plan

The main target of WUA establishment acceleration plan is farmers group in each tertiary block where no WUA has been established although irrigation water can be distributed to the concerned block. For this purpose, Provincial task force team is to invite representatives and members of Farmers Group to socialization meeting and workshop aiming at confirmation of their awareness to establishment of and participation to WUA as well as their needs for general guidance about procedure and practice of WUA establishment.

Although this plan has to cover 137 WUA not yet established in 32 irrigation schemes, its implementation should be commenced from 9 candidate schemes in which there remain 40 WUA not yet established.

(5) On-the-job O&M Training and Management Guidance

As O&M of tertiary irrigation system is the responsibility of WUA, training programs are to be implemented during the implementation period of rehabilitation works in the respective irrigation schemes in order to enable WUA member farmers to carry out physical activities smoothly and non-physical

activities properly. The main menu is on-the-job training program on O&M of irrigation facilities at tertiary level and management guidance program on collection and expense of WUA member's fee.

(6) Strengthening of Extension Services

To strengthen extension services based on the area specific concept in order to accommodate farmer's needs, promote farmer/farmers group participation and to take initiatives in the execution of extension services in the irrigation scheme, the main activities are to include farmer/farmers' group empowerment, staff empowerment, field demonstration, technical development/trial, class room training, field school, study tour, workshop and mass guidance.

(7) Cost Estimate for Institutional Capacity Building

The unit cost of each institutional capacity building plan is estimated at preliminary level as follows:

District/municipal government capacity building	plan Rp.10,000,000/time
WUA strengthening plan	Rp.40,000/ha
WUA Federation Setting-up Plan	Rp.20,000/ha
WUA Establishment Acceleration Plan	Rp.20,000/ha
On-the-job O&M Training	Rp.100,000/ha
WUA Management Guidance	Rp.20,000/ha
Strengthening of Extension Services	1% of rehabilitation cost

Taking into account the above unit cost, target and established numbers of WUA, and subject area of irrigation scheme, institutional capacity building cost has been estimated and the result is as shown in Table A-5.4.1.

5.5 Economic Evaluation

5.5.1 General

The economic evaluation of the present Study has been made to assess the economic viability by comparing the project costs and the incremental project benefits between the present/before project conditions and the with-project conditions as the reliable prediction or estimation of the without-project conditions was not possible and impractical. The approaches or assumptions applied for the economic evaluation are as follows;

- (a) Economic evaluation has been made by estimating project benefits between the present/before project and the with-project conditions,
- (b) For economic evaluation, economic internal rate of return (EIRR), financial gross return per ha have been examined,

- (c) Project benefits are estimated based on crop production benefits and indirect or intangible benefits have not been counted,
- (d) The useful life of the Project was taken as 30 years from project implementation,
- (e) Exchange rate of Indonesian Rupiah (Rp.) to US. Dollar (US\$) was taken to be Rp. 8,279 equivalent to US\$ 1.00 (as of May 2003);
- (f) Constant prices at 2003 level were used in the economic evaluation, and

5.5.2 Project Costs

The project costs of the individual rehabilitation plans consist of initial investment costs, replacement costs and O&M costs. The economic project costs were calculated from the financial project costs by applying standard conversion factor of 0.90 as shown in Table A-5.5.1.

5.5.3 Project Benefits

(1) Economic Prices of Farm Inputs and Outputs

Economic prices of farm inputs and outputs were estimated in order to evaluate the expected project benefits. Economic prices of trade goods such as rice, maize, soybeans, groundnuts and fertilizers were estimated on the basis of the projected world market prices of these commodities forecast by the World Bank. Non-trade goods were valued at financial prices which were estimated on the basis of current market or farm gate prices. Farm labor was valued at the shadow wage rate of 0.80. The economic prices of farm inputs and outputs applied for the economic evaluation are presented in Table B-6.2.2 and B-6.2.3.

(2) Project Benefits

Only the crop production benefits are assessed as the project benefits as stated earlier. The net project benefits are defined as the difference in net return from crop production between the with-project and the present/before project conditions. The economic crop budgets applied for the estimation of the net return under the Study are as presented in Table A-5.5.2. The project benefits expressed as the incremental net return form crop production in the individual schemes are estimated as shown in Table A-5.5.3.

5.5.4 Results of Economic Evaluation

The results of the economic evaluation (EIRR, B/C, B - C & incremental gross return per ha) are presented in Table A-5.5.4 and as summarized below.

EIRR	No. of Schemes	Ratio (%)
$\geq 20\%$	3	6
15 - 19%	7	14
10 - 14%	25	50
< 10%	15	30

Economic Internal Rate of Return (EIRR)

EIRRs of the target schemes are in the range of 3.1% to 26.2% and the rates of 35 schemes (70%) out of 50 schemes are calculated at higher than 10%.

B/C	No. of Schemes	Ratio (%)
≧ 1.0	35	70
< 1.0	15	30

B/C at Discount Rate of 10%

The incremental gross returns per ha of the subject area under the with-project conditions are shown in Table A-5.5.4 and summarized in the following table.

Incremental Gross Return per ha (Financial Value)

Incremental Return (million Rp /ha)	No. of Schemes	Ratio (%)
≥ 6.0	9	18
3.0 - < 6.0	41	82
< 3.0	0	_

Overall average gross returns per ha and incremental gross returns per ha are estimated as shown in the following table.

Average Incremental	Gross Return p	per ha of Sub	ject Area
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Gross Return per ha (Rp.000)		
Before Project	With-project	Increment
7,169	12,026	4,857

The overall average incremental gross returns per ha of the subject area under the with-project conditions is estimated at Rp. 4,857,000 respectively as shown above.

5.6 Database for Rehabilitation Plan

The databases for the rehabilitation plan of 50 irrigation schemes are shown in Volume 5, ANNEX-II (1/3).

CHAPTER 6 PRIORITIZATION FOR IMPLEMENTATION OF REHABILITATION

6.1 Flow of Criteria for Prioritization

6.1.1 Flow of Prioritization

The general flow for prioritization of Rehabilitation Projects is shown in Figure A-6.1.1.

The procedure for the prioritization is described as below:

First Screening

Step-1

- 1.1 Collection of data on existing irrigation schemes with a registered area of more than 1,000 ha.
- 1.2 If the area of both the registered area and the estimated area were more than 1,000 ha proceeded to Step-2. If an estimated area was less than 1,000 ha, such scheme has been categorized into Group-VI.

Step-2

- 2.1 Evaluation of capacities of WUA of each irrigation schemes and related district governments.
- 2.2 If more than 50% against target number of WUAs has been already established as well as the post of head of water resources and irrigation service office has been fulfilled by the third or higher rank officer, proceeded to Step-3 (1). On the other hand, if more than 50% against target number of WUAs has not been established or the said post has been vacant or fulfilled by the fourth rank officer, the scheme has been categorized into Group-V.

Step-3

- 3.1 Information on water resources and irrigable area of the scheme furnished by the Dinas PSDA/project office has been adopted for the determination of the possibility for water supply for the scheme.
- 3.2 If the water resources was considered to be sufficient for the scheme according to such information, an inventory survey and pre-F/S have been carried out.
- 3.3 If the water resources were considered to be insufficient for the scheme according to the information, proceeded to Step-3 (2).
- 3.4 In case that there was a possibility of reformulation of water resources development plan, the scheme has been categorized into Group-IV. On the

other hand, if there was no possibility of reformulation of water resources development plan, the scheme has been categorized into Group-VI.

Second Screening

Step-4

4.1 If there are such problems as low technical sustainability (high construction cost and low economic feasibility) and less contribution to the society, such scheme shall be categorized into Group-VI.

Step-5

- 5.1 Evaluation indicators for prioritization consist of issues of: (a) irrigation,(b) agricultural productivity, (c) society, and (d) economic and financial impacts.
- 5.2 Based on the comprehensive examination of the above evaluation indicators in pre-F/S, priority of the schemes to be rehabilitated shall be determined and listed.

Priority

Based on the priority list thus prepared, recommendation of implementation procedure is made as follows:

Group-I:	Recommended as the first priority
Group-II:	Recommended as the second priority
Group-III:	Recommended as the third priority
Group-IV:	Recommended to reformulate water resources development
	plan
Group-V:	Recommended to accelerate WUA establishment and to
	empower district government officials concerned
Group-VI:	Recommended to formulate development method by other
	categories

6.1.2 Criteria for Prioritization

Prioritization of rehabilitation works has been based on following four major evaluation indicators:

- (a) Rehabilitation of irrigation system impact
- (b) Agriculture productivity impact
- (c) Social impact
- (d) Economic and financial impacts

It should be noted that the status of water users' association has not been included in the evaluation indicators due to the reasons stated in the box in the next stage. (1) Rehabilitation of irrigation system impact

Rehabilitation of irrigation system impact consists of following three items:

- (a) Utilization of resources potential
- (b) Urgency of rehabilitation
- (c) Sustainability

"Utilization of resources potential" means that actual intake of water vs. designed capacity of intake structure. It is necessary to evaluate increment of intake of water by improving or repairing intake structure, and as a result how much irrigation area can be increased.

"Urgency of rehabilitation" means recovery of function of irrigation scheme, which was not functioning due to disorders of the facilities, by means of rehabilitation. For instance, intake structure or main canal is heavily damaged by some reasons, all the system may not function at all. In such case, evaluation should be made in such a manner that how much function of the system recovers with limited investments.

"Sustainability" does not necessarily depend on structure stability, but it is one of the most important indicators of the effect of rehabilitation. Evaluation of sustainability should be based on the extension of project life.

(2) Agriculture productivity impact

Agriculture productivity impact consists of following three items:

- (a) Increase of irrigation area
- (b) Cropping intensity
- (c) Crop yield

Evaluation of agriculture productivity impact shall be made in terms of increments of irrigation area, crop yield and cropping area.

(3) Social impact

Social impact consists of following two items:

(a) Increase of beneficiaries

(b) Improvement of rural infrastructures

Evaluation of social impact shall be made both aspects of alleviation of poverty and improvement and newly provision of rural infrastructures.

(4) Economic and financial impacts

Evaluation of economic feasibility shall be carried out based on Economic Internal Rate of Return (EIRR) and evaluation of financial viability shall be based on analysis of agriculture return.

6.2 Weights of Evaluation Indicators

Distribution of weighted score for four respective indicators is determined as below and details are shown in Table A-6.2.1.

	Evaluation Indicator	Weighted Score
1.	Issue of Irrigation Indicator	50
1.1	Utilization of irrigation potential	(10)
1.2	Urgency of rehabilitation	(25)
1.3	Sustainability	(15)
2.	Issue of Agriculture Productivity	20
2.1	Current cropping intensity	(10)
2.2	Current unit yield of paddy	(10)
3.	Issue of Society	15
3.1	Number of beneficiaries	(7.5)
3.2	Provision of social infrastructure	(7.5)
4.	Issue of Economic and Financial Impact	15
4.1	Feasibility (EIRR)	(7.5)
4.2	Agriculture return per hectare	(7.5)

Evaluation Indicators for Prioritization of Rehabilitation Work

6.3 Evaluation Results

The evaluation was made for 50 schemes and the evaluation results are finally classified into Group I, II, III, IV, V and VI as shown in Table A-6.2.2 and summarized below, and high priority is given in the schemes classified into from Groups I to III.

Summary	of	P rio	ritiza	tion
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		Pr	iority Gro	up		
Ι	II	III	IV	V	VI	Total
7	7	5	3	13	15	50

The database for the prioritization in each scheme is presented in Volume 5, ANNEX-II (1/3).

6.4 Selection of Model Scheme for the Feasibility Study

Selection of model scheme to be taken up for the feasibility study has been comprehensively made considering not only the evaluation results of prioritization but also the following factors:

- (a) The scheme of which irrigation area is more or less the same as the average area of the 50 schemes,
- (b) The scheme of which condition of topography, situation of agriculture

and agro-economy, type of irrigation system/facilities, etc. represents the subject schemes,

- (c) The scheme of which rehabilitation brings about immediate effects on the recovery of the system (such as damages on the primary canal)
- (d) The scheme of which rehabilitation gives rise to a great impact on a regional community/economy (schemes located suburbs of a city or at large market)

A few proposed irrigation schemes were selected by the Team in due consideration of the above factors. This proposal was further examined in the meetings with the counterpart personnel and the representatives of Dinas PSDA. Finally, Padang Mahondang Scheme was selected and determined to be taken up fro the model schemes. The general features of Padang Mahondang Scheme are as follows:

Irrigation Scheme	Padang Mahondang	
District	Asahan	
Sub-district	Pulo Rakyat	
Existing Condit	ion	
Registered area (ha)	3,231	
Technical level	Semi Technical	
Completion year of system	1981	
Water resources river	S. Asahan	
Type of water resources facility	Free Intake	
Settling basin	Not provided	
Max. intake discharge (m ³ /s)	0.6	
Length of main canal (km)	3.6	
Length of secondary canal (km)	9.2	
Number of WUAs (Target/Established)	2/1	
Number of farmers	Not available	
Development Plan		
Subject area (ha)	2,905	
Water resources facility	Free Intake (New construction)	
Settling basin	Newly provide	
Length of main canal (km)	3.5	
Length of secondary canal (km)	10.0	
Rehabilitation cost: Total (million Rp.)	42,036	
Rehabilitation cost: Per hectare (million Rp.)	14.5 (US\$1,748/ha)	
Economic internal rate of return (%)	19.4	

Features of Selected Areas

CHAPTER 7 PREPARATION OF ACTION PLAN

7.1 Action Plan

The priority ranking has been made for each irrigation scheme in the preliminary feasibility study. The action plan for rehabilitation work after the prioritization should be prepared with following contents:

- (a) Organization plan,
- (b) Action plan for recovering function of irrigation facilities,
- (c) Action plan for institutional strengthening,
- (d) Action plan for extension services strengthening, and
- (e) Action plan for budgeting.

7.2 Organization Plan

(1) Precondition

The organization for the recovery program is proposed as illustrated below:



Proposed Organization for Recovery Program of Irrigation Agriculture

The organization is to be formed of "Forum" as a decision making body and "Project Office" as an implementation body. These bodies are to be newly established at provincial level, which are responsible for implementing the comprehensive recovery program of irrigation agriculture from the initiation phase to the final phase on the basis of participatory irrigation management concept.

The Project Office is attached to provincial water resources service as one of functional units and under the control of the chief in charge of water resources management and utilization.

(2) Function Recovery Forum

The Forum is to play facilitator's role in collecting ideas and inputs to the function recovery program at the respective Phases from water users and other stakeholders. The Forum is also responsible for getting final approval from the Governor about its decisions on implementation of the program including budgeting and budget implementation plans. The Forum will be composed of the following members:

Chairman of Forum:	Provincial governor
Vice chairman of Forum:	Chief of BAPPEDA
Secretary of Forum:	Chief of Provincial Water Resources
	Services (PSDA)
Member of Forum:	District Regent, Municipal Mayor, Chief of
	District BAPPEDA, Chief of District Water
	Resources Services, Chief of Agriculture
	Services at provincial and district level,
	Chief of relevant services at provincial and
	district level, Representative of Water Users'
	Association, University and NGO

(3) Function Recovery Project Office

As discussed in the precondition, "Function Recovery Project Office (tentative name)" will be established under PSDA or Public Services (PU) and take full responsibility of implementation and management of all activities in each phase of the recovery program. The Project Office will be composed of about six (6) Sections such as (a) Irrigation Assets Management Section, (b) Investigation Section, (c) Irrigation Planning Section, (d) Design Section, (e) Construction Section, and (f) Agriculture and Farmers' Organization Support Section.

The Project Office has to (i) maintain close relationship with the stakeholders of water user side, (ii) clarify, utilize and manage their ideas and inputs, and (iii) has a right of influence on their demands for the successful completion of the project. The Project Office will organize various task force teams to carry out specific activities under the direction of the Forum.

In implementing and managing the recovery program, the project manager is a leader of the working group, and his leadership has to be displayed in any activity of the program. He is expected to have skills as communicator, negotiator and problem solver.

Major activities of the respective sections stated above are as follows:

Project	1. The person in charge of implementation of the project.
Manager	2. Responsible for negotiation with related agencies, and obtaining
	consensus.
	3. Responsible for implementation schedule.
	4. Responsible for drawing up and expending budget for the
	implementation of the project.
Irrigation assets	1. Responsible for managing/safekeeping and updating of irrigation
management	facilities account book
section	2 Collection and assessment of information of irrigation facilities from
500000	the subordinate agencies (Kabunaten)
Investigation	1 Confirmation of consistency of the account book and the existing
section	status of irrigation facilities
section	2 Supervision of observation and collection/classification of
	2. Supervision of observation and concerton classification of meteorological and hydrological (river runoff) data
	2 Deriodical investigation on the status of irrigation facilities and
	5. Feriodical investigation on the status of imigation facilities and
	A Conducting inventory survey of the original facilities, which are
	4. Conducting inventory survey of the existing facilities, which are
T ' '	necessary for formulating the renabilitation program.
Irrigation	1. Analysis of data on meteorology and hydrology (river runoff).
planning section	2. Formulation of rehabilitation plan based on the investigation results.
	3. Prioritization of irrigation schemes based on the rehabilitation plan
	and the construction cost.
	4. Preparation of manual of water management and O&M, and guidance
	of the manual
	5. Conducting investigation on environmental impact assessment, and
	obtaining permits for implementation of the project.
Design section	1. Preparation of design report and bill of quantities, and tender
	documents including drawings.
	2. Conducting design modification during the construction of irrigation
	facilities.
Construction	1. Selection of contractors (from tendering to contract signing).
section	2. Supervision of construction works.
	3. Inspecting completion of work, and supervising the project works
	during the guarantee period.
Agriculture and	1 Collection and classification of information on the WUA and related
farmers'	organizations
organization	2 Collection and classification of information on agriculture and
support section	agro-economy required for formulating rehabilitation program
support section	3 Establishment and support of the program on agriculture and
	agro-economy
	4 Establishment and support of the program on the ampowerment of
	4. Establishment and support of the program on the empowerment of
1	institutonal organization.

The activities stated above will change in accordance with the implementation progress of activities in each phase of the program. It will become necessary to
employ specialized and qualified consultants (Indonesian and/or international) as required.

7.3 Action Plan for Recovering Function of Irrigation Facilities

7.3.1 Action Plan based on the Priority Group

Recommendations based on the evaluation results for the six (6) groups from Groups I to VI are as follows

- Group I: High priority schemes (Recommended making F/S)
- Group II: Second high priority schemes (Recommended making F/S)
- Group III: Third high priority schemes (Recommended making F/S)
- Group IV: Schemes that require reexamination of availability of water resources before making F/S
- Group V: Schemes that require empowerment of WUA or district government before making F/S
- Group VI: Schemes that require reexamination of development methodology before making F/S

Of the above classification, action plan for Groups I to III is more or less the same, though timing of initiation of implementation is different, whereas action plan for Groups IV to VI is not the same due to different constraints. Action plan for each group is as follows:

Groups I to III:

- Procurement of consultants for making F/S,
- Execution of F/S,
- Preparation of implementation program for each scheme,
- Appropriation of funds for the rehabilitation,
- Procurement of consultants for detailed design and construction supervision,
- Field investigation and topographic survey, etc., for detailed design, and preparation of detailed design,
- Preparation of tender documents including drawings,
- Selection of contractor(s),
- Supervision of construction, and
- Final inspection for completion delivery and O/M of the system.

Group IV:

- Procurement of consultants for field survey and study on development plan,

- Preparation of alternative development plan,
- Execution of F/S based on the alternative plan, and
- Activities to be followed are the same as Groups I to III stated above.

Group V:

- Promotion of the organization of WUA to the required level,
- Promotion of the organization of district government to the required level,
- Classification of schemes to Groups I to III or Group VI, and
- Activities to be followed are the same as Groups I to III stated above.

Group VI:

- Procurement of consultants for field survey and study on development plan,
- Preparation of alternative development plan (If the registered area is less too small, integration of plural schemes or exclusion from the list are to be considered.),
- Execution of F/S based on the alternative plan, and
- Activities to be followed are the same as Groups I to III stated above.

7.3.2 Evaluation of Each Scheme and Confirmation of Development Plan

Evaluation of each scheme in terms of issues/problems and their countermeasures are summarized as follows:

Group	Priority of Rehabilitation	Issues and Problems	Countermeasures
Ι	High priority	- Poor function of basic	- Recovery of function by R/U of
	(Recommend F/S)	structures	basic structures.
		- No problem in water	
		resources facilities	
II	Second priority	- Poor function of the	- 30-50% of facilities needs R/U.
	(Recommend F/S)	system due to deterioration	- Replacement or repairing of
		- Malfunction of terminal	gates is necessary.
		system	- New construction or
		- No problem in water	rehabilitation of inspection road
		resources facilities	is necessary.
III	Third priority	- Malfunction of the system	- More than 50% of facilities
	(Recommend F/S)	due to deterioration	need R/U.
		- No function of terminal	- Rehabilitation of terminal
		system	system is urgent.
		- No problems in water	
		resources facilities	
IV	Re-examination	- Water is not distributed to	- Development of new water
		the terminal system due to	resources
		shortage of river runoff.	- Integration of schemes
		- Paddy field is converted to	- Conversion of crops to be
		upland field or orchard due	cultivated to meet irrigable
		to shortage of water.	area.

Priority of Rehabilitation of the Schemes, Issues/ Problems and Countermeasures

V	Re-examination	- Poor functions and activities of WUA or district government (on the condition that there is no problem in water supply).	- Establishment and empowerment of WUA or empowerment of district government is urgent (on the condition that there is no problem in water supply).
VI	Re-examination	 Registered area with less than 1,000 ha (recommended by JICA Study Team) Absolute shortage of water resources Low effect on investment Low motivation of farmers in practicing farming 	 Development of new water resources Conversion of crops to meet irrigation area

7.3.3 Packaging of Field Survey and Construction Works

(1) Field Investigation for F/S

In order to maintain the uniformity of field survey results, number of package of F/S is one (1) regardless of the scale of the schemes. The study period ranges from 6-18 months depending on size of the schemes.

(2) Construction Works

Packaging of the construction works is made on the basis of monetary terms that are the decisive factors. The approximate construction cost is Rp. 50,000 million (approximately \$ 700 million) per package. The construction period of one scheme is determined to be 2 years in principle, however, that of large area is 3 years.

7.3.4 Implementation Schedule

The irrigation schemes in the province are classified based on the evaluation of rehabilitation priority as shown below:

Group	Ι	II	III	IV	V	VI	Total
Number	6	7	5	3	14	15	50

Number of Schemes classified based on Priority of Rehabilitation

Based on the priority group and major features of the schemes stated in the above table, the implementation schedule together with the said information are summarized in Table A-7.3.1 and Figure A-7.3.1. It should be noted that the implementation schedules of the F/S and construction works of the schemes classified into Groups IV, V and VI are not presented in the report because various kinds of survey and study are required before commencing F/S.

7.3.5 Status of Basic Information on the Irrigation Schemes

In commencing the Study on the Comprehensive Recovery Program of Irrigated Agriculture, basic information such as irrigation area, irrigation diagram, dimension of canals and related structures, intake water record, meteorological and hydrological data. Needless to say, the Study largely depends on the availability of such basic data and their accuracy.

One of the most important tasks of the Study is to collect the basic information. However, many schemes are equipped with neither basic information nor detailed information. To cope with this situation, it was necessary to visit the branch offices of the Provincial Water Resources Management Services Office (Dinas PSDA), nonetheless plenty of documents have been scattered and lost.

The comprehensive recovery project is expected to be certain that the function of facilities can be easily recovered, as most of the existing schemes.

In order to complete successfully the project, the "processing of basic information and preparation of the updated book" is prerequisite condition. For the implementation of the project, necessary information can be collected through such updated book, and if further information is required, additional field survey would be necessary, which is to be added to the book.

It is recommended that the Dinas PSDA should supervise such activities and be responsible for keeping book. In other words, it is urgently necessary for Dinas PSDA to update the information regarding meteorology, hydrology, conditions of irrigation facilities, irrigated area, crop production, etc., which can be furnished for the formulation of rehabilitation plan.

7.4 Action Plan for Institutional Strengthening

7.4.1 Type of Plan

Action plan for institutional strengthening consists of the following two program groups:

- The one is to be conducted in either initial or midterm phase prior to the implementation of rehabilitation works of irrigation system. Action plan for this group includes institutional capacity building and staff capability improvement program, WUA strengthening program, FWUA and MWUA initial setting-up program, and WUA establishment acceleration program; and
- The other is to be carried out in final stage as one of the project

components in parallel with rehabilitation works of irrigation system. Action plan for this group covers training program on operation and maintenance of tertiary irrigation system, and guidance program for collection and expense of irrigation water service charge.

The overall implementation schedule of action plan for institutional strengthening is included in Figure 4.6.1.

7.4.2 Formulation of Task Force Team for Institutional Strengthening

For conducting the action plan of the first group, a Task Force Team will be established by the Provincial Government. In principle, this Task Force Team is responsible for providing initial ideas/needs and making decision to take necessary arrangement for the program implementation. This Task Force Team is therefore formed of the following members:

- Chief is to be appointed from Provincial Water Resources Service Office;
- Secretary is to be appointed from Provincial Water Resources Service Office; and
- Members are to be appointed from Provincial and District/Municipal Water Resources Service Offices as well as representatives of WUA, FWUA/MWUA if already organized and Farmers Group in non-WUA.

For carrying out the action plan of the second group, a working group will be organized under the control of the rehabilitation project manager and led by a senior project staff in charge. As members of this working group, experts are also invited from NGO and universities in addition to representatives of WUA and FWUA/MWUA if available. This working group is responsible for providing necessary inputs and making decision and necessary arrangement for the program implementation.

7.4.3 Elements of Action Plans for Institutional Strengthening

(1) Institutional Capacity Building and Staff Capability Improvement Program

This program contains two (2) components. One is to enable irrigation officials at regional level to understand and practice the new irrigation management policy. The other is to improve the capacity of organization units of district/municipality government involved in irrigation management and those staff capability in line with the new irrigation management policy.

The first component will be done through undertaking a series of seminar and workshop to be facilitated by the central government after the legal framework of

water resources and irrigation management is completed. Its program formulation and budget arrangement will be also made by the central government.

The second component should reflect to the above nationwide dissemination of the new irrigation policy by the central government. This component will be done by the Task Force Team at provincial level and consultants as follows:

- To evaluate the capacity of district/municipal government authorities and the capability of those staff, both involved in irrigation management activities;
- To identify needs for improving institutional capacity and staff capability to cope with the new irrigation management policy as well as supporting requirements for fulfillment of such needs through technical assistance by central/provincial government; and
- To formulate implementation programs on institutional capacity building and staff capability improvement for the respective district/municipal government authorities involved in irrigation management.

Regarding the budget arrangement for these implementation programs, the main source is district/municipal government budget to cover the cost for institutional capacity building and staff capability improvement, while the supplemental source is provincial government budget to cover the cost for implementation of the supporting menus.

In implementing the institutional capacity building and staff capability improvement program, a group of trainers will be organized by inviting well experienced specialists from consultant, NGO and universities. Monitoring and supervision of the program implementation should be carried out continuously by relevant organization units at provincial level throughout the program implementation stage with periodical reporting on performance and impact of the program implementation.

(2) WUA Strengthening Program

The background of this program is the existence of many irrigation schemes where majority of WUA have yet shown good performance in terms of organization management and financing aspects other than physical aspects like irrigation facility condition and water allocation utilization. From the initial stage of irrigation system rehabilitation, farmers' participation is prerequisite so that the capability of WUA is one of important key factors for successful implementation of the comprehensive recovery program of irrigation agriculture.

The Task Force Team should be responsible for making necessary arrangement to formulate and implement WUA strengthening program by recruiting consultant as technical assistant. The Task Force Team and its consultants shall:

- hold WUA' awareness raising workshop to reconfirm weak points elaborated from recapitulated the latest monitoring and evaluation (M & E) record on WUA's performance;
- confirm establishment of WUA Federation (FWUA) at secondary level and federations group at primary level (MWUA) as well as non-WUA tertiary system within the irrigation scheme;
- carry out interview survey to WUA' representatives of all WUA in the irrigation scheme if the latest M&E record shows the condition of more than three years ago, and update M&E record;
- identify technical assistant requirements for improving WUA's capacity to manage organization, capability to conduct operation and maintenance of tertiary irrigation system, and/or activities to collect and expense WUA members' fee;
- formulate a technical assistant menu list and make a package program of technical assistance menus according to WUA's needs to improve its capacity, capability and/or activities; and
- estimate unit cost of each technical assistant menu and total cost of package program.

Budget for implementing package program for strengthening WUA is to be arranged by Regional Government according to its jurisdiction.

In implementing the WUA strengthening program before starting rehabilitation works, the Task Force Team shall make necessary arrangement to recruit consultant, NGO and/or universities as facilitators and implementers in the irrigation scheme area.

(3) FWUA and MWUA Initial Setting-up Program

The background of this program is the current change in the operation and maintenance responsibility of primary and secondary irrigation system in line with the draft of Law on Water Resources. These two groups will represent those member WUA so that they should build up transparent channel and good cooperation among WUA, FWUA and MWUA in implementing irrigation management activities. In order to secure appropriate role and function of WUA' groups in conformity with the participatory irrigation management policy, therefore, it is necessitated to support initial setting-up of FWUA and MFUA.

The same Task Force Team and its consultant shall:

- collect list of FWUA/MWUA, list of member WUA, legal documents;
- review and confirm role and function of FWUA/MWUA compared with the participatory irrigation management policy;

- socialize the necessity of setting up representative groups to WUA to cope with the participatory irrigation management policy if FWUA/MWUA has not been established;
- formulate a guidance menu list and make a package program of guidance menus to support initial setting-up of FWUA/MWUA according to the current situation in the irrigation scheme; and
- estimate unit cost of each guidance menu and total cost of package program.

Budget for implementing package program for initial setting-up of FWUA and MWUA is to be arranged by Regional Government according to its jurisdiction.

In implementing the initial setting-up of FWUA and MWUA program before starting rehabilitation works, the Task Force Team shall make necessary arrangement to recruit consultant, NGO and/or universities as facilitators and supporters in the irrigation scheme area.

(4) WUA Establishment Acceleration Program

The background of this program is the existence of tertiary blocks where no WUA has yet established within one irrigation system resulting in that the realization of full-scale management of irrigation system is still impossible. In such case, any irrigation scheme with WUA establishment target realization ration of less than 50% is to be dropped from Master List according to the criteria. Further, there are candidate irrigation schemes which have tertiary blocks without WUA. As long as irrigation water is distributed to the concerned tertiary block, WUA should be established as a terminal body of water users. Therefore, it is indispensable for accelerating WUA establishment up to the target level in each irrigation scheme in order to ensure participatory irrigation management in the whole tertiary blocks of one irrigation system in an integrated manner.

The same Task Force Team and its consultant shall:

- hold socialization meeting and workshop to invite representatives and members of farmers groups which are available in non-WUA tertiary blocks provided with irrigation water, for the purpose of accelerating WUA establishment and promoting participatory irrigation management;
- confirm farmers' awareness to establishment of and participation to WUA as well as their needs for guidance about procedure and practice of WUA establishment;
- formulate a guidance menu list and make a package program of guidance menus to accelerate WUA establishment in non-WUA tertiary blocks to which irrigation water is distributed; and
- estimate unit cost of each guidance menu and total cost of package program.

Budget for implementing package program for WUA establishment acceleration is to be arranged by Regional Government according to its jurisdiction.

In implementing the WUA establishment acceleration program before starting rehabilitation works, the Task Force Team shall make necessary arrangement to recruit consultant, NGO and/or universities as facilitators and supporters in the irrigation scheme area.

(5) Training Program on Operation and Maintenance of Tertiary Irrigation System

This training program will be done after completing the rehabilitation works of irrigation system. For this purpose, however, preparation of training manual and program should be done in parallel with the final stage of rehabilitation works. Also the concept of training program should synchronize irrigation water allocation plan to tertiary blocks as well as cropping pattern and planting schedule in the irrigation scheme.

As this training will be done as one of rehabilitation project components, consultant under the project manager is responsible for preparing training manuals, formulating training program estimating training cost and implementing training program. To ensure effective and efficient implementation of training on operation and maintenance of tertiary irrigation system, NGO and other volunteers will be encouraged to involve in training activities at field level in addition to the project staff, Regional Government officials and consultant.

Budget arrangement based on consultant's cost estimate is the responsibility of the project manager.

(6) Guidance Program for Collection and Expense of Irrigation Water Service Charge

The background of this program is the reconfirmation of WUA's obligation to operate and maintain tertiary irrigation system in the draft of new Law on Water Resources. Since 1984, farmers have been responsible for paying irrigation service fee to cover the cost for operation and maintenance of tertiary irrigation system as well as management cost of WUA. Due to uncertain realization of irrigation water allocation plan to each tertiary block of the irrigation system, however, many WUA members put lower priority over their irrigation service fees among annual expenses from their income. As irrigation water supply can be guaranteed as planned after the rehabilitation works completed, therefore, it is needed for reluctant farmers to remind their obligation and to encourage them to fulfill their obligation.

In parallel with preparation of training manual on operation and maintenance of tertiary irrigation system, the project consultant shall:

- identify issues on book keeping system, fee determination method, payment form, fee collection system and payment schedule;
- identify issues fee allocation system to cover administration, operation, maintenance and other miscellaneous cost;
- identify incentives to members;
- formulate a guidance menu list and a package program of guidance menus for collection and expenses of irrigation water service fee; and
- estimate unit cost of each guidance menu and total cost of package program.

Budget arrangement based on consultant's cost estimate is the responsibility of the project manager.

In formulating and implementing the guidance program for collection and expense of irrigation water service charge, the project manager should pay his due attention to recruit a consultant with specific experiences matching with the above terms.

7.5 Action Plan for Extension Services Strengthening

7.5.1 Formulation of Action Plan

The goal of strengthening extension services is to mitigate individual or plural constraints to agricultural development based on farmer-to-farmer approaches. To reach the goal, it is prerequisite to formulate a strategic action plan tailored to area specific needs. Therefore, the action plan has to include a series of program menus aiming at farmer/farmers group and staff empowerment. Formulation of the action plan for strengthening extension services also has to be well synchronized with the implementation schedule of rehabilitation works of the irrigation scheme. Key program menus are field demonstration, technical trial, classroom and field school training, study tour, workshop, mass guidance, and so on.

7.5.2 Formulation of Task Force Team for Extension Services Strengthening

For implementing the action plan, a Regional Task Force Team for strengthening extension services will be established by Regional Government. This Task Force Team is formed of the following members:

Chief	Regional agriculture services agencies
Secretary	Regional agriculture services agencies
Member	Irrigation services agencies

Water users' associations (farmers)

Technical guidance team Agriculture & irrigation agencies of higher jurisdiction; BPTP

7.5.3 Formulation of Implementation Program

An implementation program of the action plan for strengthening extension services will be formulated stepwise as below:

Constraints for development will be identified by the following means:

- Investigation on the present agriculture conditions and identification of constraints to be mitigated for the attainment of the targets set in the agriculture plan; and
- Field confirmation of the constraints by the research-extension dialog team.

Approaches and countermeasures or technologies will be introduced by establishment of:

- Approaches for the mitigation of the constraints identified;
- Countermeasures for the mitigation of the constraints identified; and
- Agriculture technologies for the mitigation of the constraints identified.

Based on the extension system employed in a district, the modified system accommodating area specific conditions and needs should better be worked out by emphasizing promotion of farmer/farmers' group's participation and initiatives in the execution of extension services in the irrigation scheme.

Element extension programs will be formulated for the mitigation of individual or plural development constraints by emphasizing farmer-to-farmer approaches. Element extension programs should be area specific ones tailored to area specific needs and will include farmer/farmers' group empowerment program, staffs empowerment program, field demonstration program, technical development or trial program, training program in class and in field (field school), study tour, workshop, mass guidance and so on.

For implementing extension services strengthening program, a certain period from 3 to 5 years will be required as shown in Figure A-7.3.1, based on the time series for implementation schedule of element programs, budget requirement and availability as well as staff availability and capability.

7.5.4 Implementation of Extension Services Strengthening Program

The extension services strengthening program will be implemented as follows:

- Formulation of annual work program for the strengthening of extension services in individual irrigation schemes based on the action plan for

strengthening of extension services and through participatory approach;

- Budget arrangement on the basis of the annual work program formulated above;
- Preparation of detail agreed plan of operation for the implementation of strengthening programs accommodated in the budgets through participatory approaches of stakeholders involved in the implementation of the programs;
- Extension materials or materials required for the implementation of the programs accommodated in APO should be prepared in time for the execution of the programs;
- Based on the establishment or development of agriculture technologies to be introduced, simple extension materials to be distributed to farmer/farmers' group should be prepared;
- Implementation of the programs for the strengthening of extension services should better be carried out by a working Team organized for the implementation of the programs in individual irrigation schemes. The Working Team should be composed of: staffs of district agriculture services office, field agriculture & irrigation staffs, representatives of WUAs and representatives of participants of the programs;
- Monitoring & supervision of the program implementation by the Task Force Team should be carried out continuously throughout the program implementation stage; and
- Monitoring of the program implementation and impacts should be made by the Working Team under the supervision of the Task Force Team. Periodical reporting of the results and findings of such monitoring activities should be institutionalized.

7.6 Action Plan for Budgeting and Budget Implementation

In discussing the preparation of budget proposals and implementing of budget to be allocated to the function recovery program, special attention has to be paid to the following key issues related to the modified irrigation management policy in line with the draft of new Law on Water Resources:

- Arrangement of irrigation management responsibility between irrigation water suppliers and water users;
- Arrangement of irrigation management responsibility among government authorities;
- Funding criteria; and
- Mechanism of budget arrangement and utilization

Among irrigation management activities, the responsibility of planning and design works for development, rehabilitation and upgrading purposes is arranged to governments at central and provincial level to assure quality of outputs from these works. Regarding implementation of physical works, it can be considered that the budget availability, staff capability and contractor capacity are crucial factors at district/municipal level. Therefore, it can be considered rational that irrigation schemes commanding more than 1,000 ha are to be handled by provincial governments in a sense of participatory irrigation management.

Although irrigation schemes covering 500 to 1,000 ha are to be dropped from the function recovery program, rehabilitation and upgrading works of such schemes needs to be implemented by district/municipal government with financial support by the Special Allocation Fund to district/municipal government (*DAK*) and technical assistance from provincial government, if necessary.

Budgeting for activities in the initiation and midterm phase of the function recovery program for the irrigation scheme with the scale of more than 1,000 ha is recommended to be made at central level. For allocating APBN of Ministry of Settlement and Regional Infrastructure, therefore, it is required to make a package of the initiation phase activities on provincial basis. It is also recommended that, after budget is allocated, provincial government is to execute initiation phase package plans through assistant task.

In the midterm phase of the function recovery program, it is recommended that Ministry of Settlement and Regional Infrastructure takes an initiative for budgeting after scrutinizing provincial governments' proposals for undertaking F/S and packaging priority schemes. Similar procedures of budgeting and budget implementation are also recommended.

Budgeting for implementing rehabilitation works of irrigation schemes will be basically made according to the jurisdiction of irrigation management stipulated in the daft of new Law on Water Resources if internal budget source is considered. If external funding sources are targeted, it is recommended to consider the scale of proposed project matching with the financing standard of the donor agencies. In other words, central government is to prepare an implementation program (I/P) by packaging irrigation schemes proposed by Regional Governments.

Tables

I. Administrative & Demograph	hic Features															
			No.	of					Pop	oulation & Hous	seholds					
Province / District	Land Are	a	Administra	tive Units		Popu	lation		Donaitu	Urba	n	Rura	ıl	House	holds	Tranmigrant
Flovince/District			Sub-	Villago	Mala	Famala	Total	Crowth Pata	(ner ler 2)	Populat	tion	Populat	tion	Households	Family	Hamingrant
	(km ²)	(%)	district	vinage	whate	remate	Totai	Glowin Kate	(per km2)	(No.)	(%)	(No.)	(%)	No.	Size	Household
101 Nias	5,318	7	17	657	347,628	351,520	699,148	1.55 %	131	21,708	3	677,440	97	142,033	4.9	75
102 Mandaling Natal	6,620	9	8	273	180,526	187,874	368,400	1.60 %	56	46,495	13	321,905	87	88,634	4.2	-
103 Tapanuli Selatan	12,277	17	20	1,265	369,982	379,021	749,003	1.34 %	61	109,889	15	639,114	85	175,289	4.3	1,870
104 Tapanuli Tengah	2,188	3	8	147	125,320	124,348	249,668	1.37 %	114	29,922	12	219,746	88	61,094	4.1	750
105 Tapanuli Utara	7,165	10	20	340	202,115	205,717	407,832	0.04 %	57	41,643	10	366,187	90	101,274	4.0	75
106 Toba Samosir	3,440	5	13	300	150,958	155,416	306,374	0.51 %	89	41,166	13	265,208	87	73,860	4.1	-
107 Labuhan Batu	9,323	13	22	242	436,305	427,133	863,438	1.47 %	93	169,941	20	693,497	80	205,406	4.2	300
108 Asahan	4,581	6	17	271	474,686	469,136	943,822	0.58 %	206	252,431	27	691,391	73	223,192	4.2	-
109 Simalungun	4,369	6	14	251	432,538	431,141	863,679	0.63 %	198	196,552	23	667,127	77	194,537	4.4	-
110 Dairi	3,146	4	13	158	147,112	148,211	295,323	0.58 %	94	35,686	12	259,637	88	73,882	4.0	250
111 Karo	2,127	3	33	258	143,225	144,628	287,853	0.99 %	135	66,968	23	220,885	77	83,359	3.5	-
112 Deli Serdang	4,339	6	20	637	1,016,332	1,004,689	2,021,021	2.10 %	466	1,118,735	55	902,286	45	481,374	4.2	-
113 Langkat	6,262	9	21	230	466,696	455,216	921,912	1.14 %	147	194,777	21	727,135	79	218,405	4.2	-
114 Others (Municipalities)	525	1	43	304	1,365,786	1,379,138	2,744,924	n.a.	5,228	2,727,079	99	17,847	1	633,267	4.3	-
Province Total	71,680	100	269	5,333	5,859,209	5,863,188	11,722,397	1.20 %	164	5,052,992	43	6,669,405	57	2,755,606	4.3	3,320
Indonesia 2/	1,890,754		4,918	70,460	106,332,251	105,670,749	212,003,000	1.49 %	112	85,380,627	42	115,861,372	58	55,041,000	3.9	

Table A-1.1.1 Administrative, Demographic and Socio-economic Features by Project District and Province in 2001: North Sumatra

II. Socio-economic Features

			Workir	a Population	& Occupatio	n			GPDP in 2	2001.5/			Fa	arm Economy	r		Population
			WOIKI	ig i opulation	r & Occupatio	11			OKDI III 2	.001 5/		Estir	nated	An	nual Per Ca	pita	under
Province/District	Working	3	Working		Propo	rtion of		Agriculture	Non-agriculture	Per District	Per Capita	Annual	Family	Exp	enditure in 2	2002	Poverty
	Population	ı 3/	Population	Wo	rking Populati	on by Sector (%) 4/	Sector	Sector	(Pn million)	$(B_{\rm P}, 000)$	Income	Expenditure	Food	Non-food	Total	Line
	(No.)	(%)	per Family	Agriculture	Industry	Others	Total	(Rp. million)	(Rp. million)	(Kp. minion)	(Kp.000)	(Rp.000)	(Rp.000)	(Rp.000)	(Rp.000)	(Rp.000)	(%)
101 Nias	408,643	58.4	2.9	88	3	9	100	1,198,367	1,220,402	2,418,769	3,387		7,269	1,131	346	1,477	31.4
102 Mandaling Natal	205,449	55.8	2.3	80	1	19	100	833,827	615,099	1,448,926	3,525		7,226	1,379	360	1,739	23.8
103 Tapanuli Selatan	425,441	56.8	2.4	77	3	20	100	1,493,426	2,427,295	3,920,721	4,979		7,499	1,329	426	1,755	21.9
104 Tapanuli Tengah	139,216	55.8	2.3	68	8	24	100	492,070	494,198	986,268	3,979		6,516	1,167	428	1,594	29.9
105 Tapanuli Utara	230,137	56.4	2.3	82	2	16	100	1,056,742	654,074	1,710,816	3,897	e	7,611	1,383	507	1,890	20.9
106 Toba Samosir	174,416	56.9	2.4	80	4	16	100	797,270	643,570	1,440,840	4,036	abl	8,517	1,546	507	2,053	24.0
107 Labuhan Batu	504,441	58.4	2.5	68	4	28	100	2,566,099	4,810,618	7,376,717	8,047	/ail	8,295	1,412	562	1,973	15.1
108 Asahan	577,199	61.2	2.6	56	13	31	100	3,483,420	5,939,439	9,422,859	8,777	a av	8,019	1,352	545	1,896	15.7
109 Simalungun	538,144	62.3	2.8	72	7	21	100	2,588,006	1,581,864	4,169,870	4,160	dati	8,130	1,273	558	1,831	18.9
110 Dairi	166,838	56.5	2.3	90	2	8	100	1,075,856	450,654	1,526,510	4,354	Į0	6,809	1,215	488	1,704	24.7
111 Karo	184,181	64.0	2.2	82	2	16	100	1,266,560	644,948	1,911,508	6,194	2	7,557	1,630	558	2,188	23.2
112 Deli Serdang	1,264,109	62.5	2.6	35	29	36	100	3,178,225	5,176,074	8,354,299	3,648		9,883	1,503	851	2,354	10.0
113 Langkat	581,798	1,201,109 02.5 2.6 55 581,798 63.1 2.7 65		10	25	100	2,318,294	2,463,857	4,782,151	5,276		8,429	1,462	535	1,997	20.6	
114 Others (kota)	1,971,963	71.8	3.1	8	22	70	100	1,375,463	25,891,400	27,266,863	n.a.		n.a.	n.a.	n.a.	n.a.	n.a.
Province Total	7,371,975	62.9	2.7	56	12	32	100	23,723,625	53,013,492	76,737,117	5,876		9,140	1,464	684	2,149	15.8
Indonesia 2/	135,426,402	63.9	2.5	47	8	45	100	246,298,200	1,203,099,900	1,449,398,100	6,837		9,537	1,448	1,028	2,476	18.2

1/Figures in 2001, if not stated otherwise 2/: Figures in 2001 based on Statistik Indonesia 2002, BPS Indonesia 3/: Estimated based on: population of age group 15 - 64 x 1.0 + age group \geq 65 x 0.5

4/. Proportion of working population of aged 10 years and over by working sector during the previous week; Survei Sosial Ekonomi Nasional, 2001

5/: Pendapatan Regional Sumatera Utara Menurut Kabupaten/Kota 1996-2001, BPS Sumatera Utara

Source: Sumatera Utara Dalam Angka (2001), BPS Sumatera Utara & Karakteristik Penduduk Sumatera Utara, Hasil Sensus Penduduk 2000, BPS Sumatera Utara

						Irriga	ation Scheme	e and I	Potential Are	a			
	District /	Т	echnical	Sem	i-technical	S	Simple	Go	vernment	V	Village		
	Municipal	Ir	rigation	Ir	rigation	Ir	rigation	S	Scheme	Ir	rigation	,	Total
		S	Scheme	S	Scheme	S	cheme	S	ub-total	S	cheme		
		No.	Area (ha)	No.	Area (ha)	No.	Area (ha)	No.	Area (ha)	No.	Area (ha)	No.	Area (ha)
1	Nias	1	1,258	13	2,696	18	2,010	32	5,964	43	3,325	75	9,289
2	Mandaling Natar	2	6,420	17	3,629	8	2,275	27	12,324	12	1,611	39	13,935
3	Tapanuli Selatan	4	6,080	42	8,834	47	7,459	93	22,373	39	4,663	132	27,036
4	Tapanuli Tengah	9	6,861	25	6,612	3	880	37	14,353	7	470	44	14,823
5	Tapanuli Utara	1	602	55	15,532	18	1,495	74	17,629	53	4,473	127	22,102
6	Toba Samosir	7	3,483	53	13,298	17	1,270	77	18,051	30	1,989	107	20,040
7	Labuhan Batu	4	4,541	5	1,344	7	1,535	16	7,420	12	1,386	28	8,806
8	Asahan	9	13,622	12	11,991	1	3,231	22	28,844	2	160	24	29,004
9	Simalungun	107	45,908	30	4,835	40	8,579	177	59,322	15	1,250	192	60,572
10	Dairi	0	0	51	12,198	36	5,311	87	17,509	8	690	95	18,199
11	Karo	0	0	46	11,699	0	0	46	11,699	4	308	50	12,007
12	Deli Serdang	15	23,086	17	21,077	1	4,000	33	48,163	51	6,826	84	54,989
13	Langkat	2	882	25	5,220	0	0	27	6,102	0	0	27	6,102
14	Inter-District (Lintas Kabupaten)	7	16,570	1	443	1	9,200	9	26,213	0	0	9	26,213
15	Kota Padang Sidimpuan	1	360	6	2,013	1	500	8	2,873	0	0	8	2,873
16	Kota Pematang Siantar	3	462	0	0	2	220	5	682	0	0	5	682
17	Kota Tebibg Tinggi	0	0	0	0	0	0	0	0	0	0	0	0
	Total	172	130,135	398	121,421	200	47,965	770	299,521	276	27,151	1,046	326,672

 Table A-1.3.1
 Number and Area of Irrigation Schemes in North Sumatra

Source: Inventarisasi Luasan, Sarana/Presarane dan Personil O&P Daerah Irrigasi dan Rawa Tahun 2002, Dinas Pengairan Sumatera Utara

										f Cino						
										of Size						
	District /		Le	ess thai	n 500 h	a		5	00 - 1,	,000 ha			Mo	re than	n 1,000	ha
	Municipal	Т	ST	NT	Total	Total	Т	ST	NT	Total	Total	Т	ST	NT	Total	Total
		(No.)	(No.)	(No.)	(No.)	Area (ha)	(No.)	(No.)	(No.)	(No.)	Area (ha)	(No.)	(No.)	(No.)	(No.)	Area (ha)
1	Nias	0	12	18	30	4,160	0	1	0	1	546	1	0	0	1	1,258
2	Mandaling Natar	1	15	7	23	3,780	0	2	1	3	1,916	1	0	0	1	6,628
3	Tapanuli Selatan	1	40	45	86	14,029	2	1	2	5	3,150	1	1	0	2	5,194
4	Tapanuli Tengah	5	23	3	31	8,329	1	2	0	3	1,998	3	0	0	3	4,026
5	Tapanuli Utara	0	45	18	63	8,350	1	6	0	7	4,565	0	4	0	4	4,714
6	Toba Samosir	4	46	17	67	10,157	2	6	0	8	5,319	1	1	0	2	2,575
7	Labuhan Batu	2	5	6	13	2,920	1	0	1	2	1,200	1	0	0	1	3,300
8	Asahan	2	5	0	7	1,420	1	2	0	3	2,013	6	5	1	12	25,411
9	Simalungun	82	26	39	147	38,087	18	3	0	21	4,835	7	1	1	9	16,400
10	Dairi	0	47	36	83	14,312	0	3	0	3	1,797	0	1	0	1	1,400
11	Karo	0	40	0	40	6,543	0	5	0	5	3,914	0	1	0	1	1,242
12	Deli Serdang	1	7	0	8	2,856	6	5	0	11	8,483	8	5	1	14	36,824
13	Langkat	1	23	0	24	3,225	1	1	0	2	1,477	0	1	0	1	1,400
14	Inter-District (Lintas Kabupaten)	1	1	0	2	643	0	0	0	0	0	6	0	1	7	25,570
15	Kota Padang Sidimpuan	1	5	0	6	1,393	0	1	1	2	1,480	0	0	0	0	0
16	Kota Pematang Siantar	3	0	2	5	682	0	0	0	0	0	0	0	0	0	0
17	Kota Tebibg Tinggi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	104	340	191	635	120,886	33	38	5	76	42,693	35	20	4	59	135,942

 Table A-1.3.2
 Classification of Government Irrigation Schemes by Size in North Sumatra

Source : Inventarisasi Luasan, Sarana/Presarane dan Personil O&P Daerah Irrigasi dan Rawa Tahun 2002, Dinas Pengairan Sumatera Utara

Remarks : T; Technical irrigation scheme, ST; Semi-technical irrigation scheme, NT; Non-technical irrigation scheme

		Conditions in 1993 (based on 1993 Agriculture Census)																		(Unit:	ha & %)
						Conditions	in 1993 (ba	sed on 1993	Agriculture	Census)							Estim	ated Current	t Condition	ıs	
		F 11		Farm	F	arm Househ	old Having	Activities in		Farm Hou	isehold by	Land Ten	ure Status o	f Cultivated	Land (ha)	Total	Estimated	Total	Total	Per Farm 1	Household
Province/District	Total	Farm House	ehold	Household	D 11 /	TT /	E i i		г	Land Cont	rol Size 1/	0			()	Household	Farm	Farm	Paddy	Farm	Paddy
	Household	N	0 /	Use Land	Paddy/	Horti-	Estate	Livestock	Farm	.0.51	> 0.51	Own	Rented-out	Rented-in	Total		Household	Land	Field	Land	Field
101.25	10.6.680	No.	%	00.460	Palawija	culture	Crops	10.1.10	Labor	< 0.5 ha	≤ 0.5 ha	Land				(No.)	(No.) 2/	(ha) 3/	(ha) 3/	(ha) 4/	(ha) 4/
101 Nias No.	106,670	98,460	92	98,460	90,010	41,670	73,680	49,140	3,890	14,860	83,600	137,982	1,975	4,553	142,535	142,033	131,101	81,387	22,484	0.62	0.17
% to Total F. H. 5/	T 1 1 1	100 T 1:0		100	91	42	75	50	4	15	85	97		3	100	00.624			10.150		
102 Mandaling Natal No.	Included 1	n Tapanuli Se	latan													88,634	70,021	53,871	19,450	0.77	0.28
% to Total F. H. 5/		1 60 0 50			120 540		51 000	12.120		(0.50)			10 501	10.000			100.105		15.00		
103 Tapanuli Selatan No.	202,700	160,050	79	157,330	138,540	29,510	71,920	13,420	23,280	63,720	93,600	145,532	10,794	19,300	164,832	175,289	138,407	172,599	45,206	1.25	0.33
% to Total F. H. 5/		100		98	87	18	45	8	15	41	59	88		12	100						
104 Tapanuli Tengah No.	42,510	35,000	82	32,500	28,620	5,420	14,590	6,630	2,320	9,880	22,610	24,574	2,233	10,436	35,010	61,094	50,301	56,203	17,725	1.12	0.35
% to Total F. H. 5/		100		93	82	15	42	19	7	30	70	70		30	100						
105 Tapanuli Utara No.	141,070	121,620	86	121,620	117,700	31,130	43,850	37,410	2,840	65,200	56,420	62,111	4,246	12,281	74,392	101,274	87,311	107,389	27,742	1.23	0.32
% to Total F. H. 5/		100		100	97	26	36	31	2	54	46	83		17	100						<u> </u>
106 Toba Samosir No.	Included	ın Tapanulı U	tara													73,860	63,520	72,539	34,810	1.14	0.55
% to Total F. H. 5/					-																
107 Labuhan Batu No.	157,070	86,070	55	83,030	53,350	8,700	43,360	9,250	58,910	14,190	68,840	122,765	5,878	14,732	137,497	205,406	112,557	113,133	67,791	1.01	0.60
% to Total F. H. 5/		100		96	62	10	50	11	68	17	83	89		11	100						L
108 Asahan No.	175,470	98,510	56	93,420	73,570	8,000	32,160	16,770	47,050	40,260	53,160	75,405	4,681	16,850	92,255	223,192	125,301	104,239	44,892	0.83	0.36
% to Total F. H. 5/		100		95	75	8	33	17	48	43	57	82		18	100						
109 Simalungun No.	167,640	104,570	62	104,520	89,710	16,110	24,450	24,580	27,790	54,270	50,250	55,532	4,276	16,639	72,171	194,537	121,348	144,530	47,258	1.19	0.39
% to Total F. H. 5/		100		100	86	15	23	24	27	52	48	77		23	100						
110 Dairi No.	54,130	48,840	90	48,790	43,400	11,410	32,150	6,310	2,050	15,070	33,730	33,404	2,531	5,921	39,325	73,882	66,662	87,776	12,104	1.32	0.18
% to Total F. H. 5/		100		100	89	23	66	13	4	31	69	85		15	100						
111 Karo No.	66,250	46,220	70	46,180	34,540	22,990	9,510	8,070	10,090	11,340	34,840	32,276	3,537	11,688	43,964	83,359	58,156	97,740	12,759	1.68	0.22
% to Total F. H. 5/		100		100	75	50	21	17	22	25	75	73		27	100						
112 Deli Serdang No.	348,340	175,120	50	171,950	146,700	36,800	27,290	38,360	63,190	87,750	84,210	94,882	9,736	29,813	124,695	481,374	242,000	213,060	86,138	0.88	0.36
% to Total F. H. 5/		100		98	84	21	16	22	36	51	49	76		24	100						
113 Langkat No.	187,710	115,150	61	109,880	75,580	22,740	36,930	30,210	53,080	48,600	61,280	86,410	10,476	24,039	110,449	218,405	133,980	97,679	49,337	0.73	0.37
% to Total F. H. 5/		100		95	66	20	32	26	46	44	56	78		22	100						
114 Others (Municipalities	504,450	28,130	6	25,100	19,080	4,610	3,530	4,720	9,140	18,040	7,060	8,795	411	3,675	12,470	633,267	35,313	38,576	10,270	1.09	0.29
% to Total F. H. 5/		100		89	68	16	13	17	32	72	28	71		29	100						
Province Total No.	2,154,010	1,117,740	52	1,092,780	910,800	239,090	413,420	244,870	303,630	443,180	649,600	879,668	60,774	169,927	1,049,595	2,755,606	1,435,977	1,440,721	497,966	1.00	0.35
% to Total F. H. 5/		100		98	81	21	37	22	27	41	59	84		16	100						<u> </u>
Indonesia No.	42,116,421	21,758,429	52	21,183,420	18,104,471	5,054,931	6,371,686	5,684,338	9,055,989	10,936,919	10,246,501	15,053,478	926,014	2,598,312	17,651,790						
% to Total F. H. 5/		100		97	83	23	29	26	42	50	47	85		15	100						

Table A-1.4.1 Agro-demographic Conditions by Project District and Province: North Sumatra

1/: No. of farmer households by size of farmlands under control (luas lahan yang dikuasai)
 2/: Estimated --- proportion (%) of farm households to total households in 1993 x total households in 2001

3/: Total farm land or paddy field in province or project districts (source: Table 3.1.5 Agricultural Land Use) 4/: Total farm land /No. of farm households estimated or total paddy field /No. of farm households estimated

5/: Proportion (%) to total farm households

Source: Sensus Pertanian 1993, BPS, Propinsi Sumatera Utara

															(U	nit: ha & %)
						Paddy	Field						Non-	paddy Farm I	Land	Total
Province/District			Irrig	gated Paddy F	ield			Non-irrigated	Paddy Field			Paddy	Home	Dry Land/	Upland	Form
1 Iovince/District		Technical	Semi-	Non-	Village	Sub total	Rainfed	Tidal	Others	Sub total	Total	Field	Garden	Garden	Field	Land
		rechinical	technical	technical	Irrigation	5u0-101a1	Field	Irrigation	Others	Sub-total			1/	2/	3/	Lana
101 Nias	ha	883	1,911	1,237	2,191	6,222	16,262	0	0	16,262	22,484	22,484	11,073	36,014	11,816	81,387
	%	4	8	6	10	28	72	0	0	72	100	28	14	44	15	100
102 Mandaling Natal	ha	3,105	1,460	3,148	6,306	14,019	4,676	0	755	5,431	19,450	19,450	14,258	15,530	4,633	53,871
	%	16	8	16	32	72	24	0	4	28	100	36	26	29	9	100
103 Tapanuli Selatan	ha	5,835	9,077	2,901	18,455	36,268	8,649	0	289	8,938	45,206	45,206	67,883	39,824	19,686	172,599
	%	13	20	6	41	80	19	0	1	20	100	26	39	23	11	100
104 Tapanuli Tengah	ha	0	4,133	2,105	3,460	9,698	4,410	0	3,617	8,027	17,725	17,725	10,942	19,019	8,517	56,203
	%	0	23	12	20	55	25	0	20	45	100	32	19	34	15	100
105 Tapanuli Utara	ha	175	2,762	6,150	16,574	25,661	2,081	0	0	2,081	27,742	27,742	18,215	39,895	21,537	107,389
	%	1	10	22	60	92	8	0	0	8	100	26	17	37	20	100
106 Toba Samosir	ha	1,094	4,657	6,696	19,734	32,181	2,629	0	0	2,629	34,810	34,810	7,554	13,291	16,884	72,539
	%	3	13	19	57	92	8	0	0	8	100	48	10	18	23	100
107 Labuhan Batu	ha	2,333	819	883	1,060	5,095	20,417	19,112	23,167	62,696	67,791	67,791	26,552	13,161	5,629	113,133
	%	3	1	1	2	8	30	28	34	92	100	60	23	12	5	100
108 Asahan	ha	8,140	5,661	3,880	1,316	18,997	23,447	0	2,448	25,895	44,892	44,892	29,656	26,786	2,905	104,239
	%	18	13	9	3	42	52	0	5	58	100	43	28	26	3	100
109 Simalungun	ha	37,560	3,201	2,317	4,180	47,258	0	0	0	0	47,258	47,258	14,982	52,360	29,930	144,530
	%	79	7	5	9	100	0	0	0	0	100	33	10	36	21	100
110 Dairi	ha	0	2,527	1,892	7,685	12,104	0	0	0	0	12,104	12,104	10,073	39,400	26,199	87,776
	%	0	21	16	63	100	0	0	0	0	100	14	11	45	30	100
111 Karo	ha	0	5,695	2,774	3,242	11,711	429	0	619	1,048	12,759	12,759	3,920	19,984	61,077	97,740
	%	0	45	22	25	92	3	0	5	8	100	13	4	20	62	100
112 Deli Serdang	ha	6,242	24,775	9,078	12,466	52,561	30,957	2,364	256	33,577	86,138	86,138	33,463	80,096	13,363	213,060
	%	7	29	11	14	61	36	3	0	39	100	40	16	38	6	100
113 Langkat	ha	3,802	4,625	0	1,014	9,441	35,542	3,479	875	39,896	49,337	49,337	13,797	28,436	6,109	97,679
	%	8	9	0	2	19	72	7	2	81	100	51	14	29	6	100
114 Others	ha	2,392	1,001	264	748	4,405	5,523	342	0	5,865	10,270	10,270	18,510	6,679	3,117	38,576
(Municipalities)	%	23	10	3	7	43	54	3	0	57	100	27	48	17	8	100
Province Total	ha	71,561	72,304	43,325	98,431	285,621	155,022	25,297	32,026	212,345	497,966	497,966	280,878	430,475	231,402	1,440,721
	%	14	15	9	20	57	31	5	6	43	100	35	19	30	16	100

Table A-1.4.2 Agricultural Land Use by Project District and Province in 2001: North Sumatra

1/: Bangunan/pekarangan; 2/: Tegal/kebun; 3/: Ladang/huma; Source: North Sumatra --- Laporan Tahunan 2001, Dinas Petanian Tanaman Pangan Sumatera Utara

		Pa	ddy	Ma	aize	Soyl	beans	Mung	gbeans	Grou	ndnut	Oth	ers ^{1/}	Total
	Province/District	Harvested Area	Production	Harvested Area										
		(ha)	(GKG t)	(ha)	(ton)	(ha)								
101	Nias	31,448	110,252	303	702	15	14	150	127	175	156	4,623	44,812	36,714
102	Mandaling Natal	35,835	160,124	2,370	5,555	1,570	1,635	507	480	1,143	1,171	552	6,178	41,977
103	Tapanuli Selatan	83,078	375,302	2,876	6,731	1,106	1,164	357	429	885	1,054	872	10,883	89,174
104	Tapanuli Tengah	25,696	100,654	1,679	4,341	351	366	323	303	450	433	1,544	17,534	30,043
105	Tapanuli Utara	34,573	138,576	2,554	6,493	23	24	2	2	1,826	1,866	3,600	38,581	42,578
106	Toba Samosir	29,108	116,468	2,608	6,661	30	33	672	631	922	945	2,417	38,150	35,757
107	Labuhan Batu	67,851	270,170	1,412	3,669	260	271	116	107	148	139	672	7,765	70,459
108	Asahan	67,181	276,002	3,619	10,827	730	770	160	148	77	74	854	10,251	72,621
109	Simalungun	87,983	411,584	56,714	185,229	799	1,024	2,548	2,539	7,887	8,890	13,776	165,855	169,707
110	Dairi	15,932	62,165	36,048	116,943	0	0	3	3	2,200	2,254	430	4,407	54,613
111	Karo	11,557	46,452	52,555	174,260	0	0	40	39	546	525	550	5,049	65,248
112	Deli Serdang	145,156	656,194	23,869	75,723	2,320	2,515	3,130	3,096	3,552	3,827	20,510	251,181	198,537
113	Langkat	78,303	321,871	10,414	32,640	2,222	2,329	890	850	596	603	796	9,089	93,221
114	Others (Municipalities)	15,143	64,801	1,688	4,388	577	574	472	357	723	548	2,501	15,967	21,104
	Province Total	728,844	3,110,615	198,709	634,162	10,003	10,719	9,370	9,111	21,130	22,485	53,697	625,702	1,021,753
	%	71		20		1		1		2		5		100

 Table A-1.4.3 Harvested Area and Production of Food Crops in 2001 by Project District and Province: North Sumatra

1/: Cassava & sweat potato Source: Laporan Tahunan 2001, Dinas Pertanian Sumatera Utara

				Ent				Diant Dr		Condi	Dura dia aki				Seed &	5	Credit			Farme	r Organi	zations		
Durania an / District	Food Crops	Food Crops		EXI	ension		Food Crops	Plant Plo	stection	Seed	Productio	on & Su	рргу	Farm	n Input S	Supply	BRI	VUD.		Kelon	npok Tar	ni (KT)		LIDIA
Province/District	Agriculture Agencies	Agencies	BPPs	N	o. of PPL	.s	Institute	Center	DUD	Se	eed Farm	l	DDCD	GUG	PT	PT	Unit Desa	KUD	Primary	Secondary	Middle	Advanced	T. (.)	UPJA
		. igeneies	(No.)	Mantan	PPLs	Total	montate	BPTPH	PHP	BBI	BBU	BBP	BPSB	5H5	Pertani	Pusri	(No.)	(No.)	Pemula	Lanjut	Madya	Utama	Totai	(No.)
101 Nias	District agriculture service Food security office	Dinas	5	3	34	37	-	-	5	-	-	1	-	-	-	0	4	34	310	91	3	0	404	-
102 Mandaling Natal	District agriculture service office Food security office	Dinas	4	2	60	62	-	-	6	-	-	-	-	-	-	0	-	-	262	339	145	26	772	-
103 Tapanuli Selatan	District agriculture service office Food security office	Dinas	16	13	185	198	-	-	16	1 (hort.)	-	4	-	0	-	0	14	44	929	586	139	252	1,906	80
104 Tapanuli Tengah	District agriculture service office Food security office	Dinas	8	4	63	67	-	-	6	-	-	1	-	-	-	0	7	10	395	207	12	2	616	13
105 Tapanuli Utara	District agriculture service office Food security office	Dinas	13	20	78	98	-	-	14	l (palawija)	-	1	-	-	-	0	18	128	431	374	269	15	1,089	39
106 Toba Samosir	District agriculture service office Food security office	Dinas	6	4	58	62	-	-	9	-	-	-	-	-	-	0	-	-	239	351	241	3	834	40
107 Labuhan Batu	District agriculture service office Food security office	KIPPK	6	8	81	89	-	-	10	-	-	1	-	-	-	0	12	31	1,072	427	66	47	1,612	13
108 Asahan	District agriculture service office Food security office	BIPP	9	13	178	191	-	-	15	-	-	2	-	0	-	0	15	88	406	398	583	219	1,606	10
109 Simalungun	District agriculture service office Food security office	KIPPK	12	19	119	138	-	-	23	-	-	2	-	-	0	0	16	54	397	768	317	3	1,485	4
110 Dairi	District agriculture service office Food security office	Dinas	13	1	57	58	-	-	10	-	-	-	-	-	-	0	5	27	427	145	63	2	637	-
111 Karo	District agriculture service office Food security office	Dinas	12	5	62	67	BPTP branch	-	13	1 (hort.)	-	2	-	-	0	0	13	55	289	310	232	91	922	17
112 Deli Serdang	District agriculture service office Food security office	Dinas	37	33	211	244	-	-	36	2 (paddy/ palawija)	-	2	-	-	-	0	10	36	946	1,184	619	97	2,846	14
113 Langkat	District agriculture service office Food security office	Dinas	17	18	114	132	-	-	18	-	-	1	-	-	-	0	-	40	320	636	812	149	1,917	50
114 Others (Municipalities)	District agriculture service office Food security office	Dinas	14	20	63	83	BPTP Medan	1 Medan	9	-	2 Medan	1 Medan	1 Medan	0	0	0	40	16	267	210	161	19	657	-
Province/Province Total	Prov. Agriculture Services Office Food Security Agency	Dinas	172	163	1,363	1,526	1	1	190	5	2	18	1	3	3	18	154	563	6,690	6,026	3,662	925	17,303	280

Table A-1.4.4 Inventory on Agriculture Support Institutions and Farmers Organizations by Project District and Province in 2002: North Sumatra

Source: Provincial Agriculture Services Office

													(Ui	nit: Number)
District	Hand	4 Wheel	Transplantar	Water	Spr	ayer	Thre	sher	Paddy	Paddy	Paddy	Large	Small	DMI
District	Tractor	Tractor	Tanspiantei	Pump	Hand	Motor	Pedal	Power	Dryer	Cleaner	Husker	Rice Mill	Rice Mill	KIVIU
1. Nias	16	1	-	2	1,617	-	114	1	0	63	34	35	24	70
2. Mandaling Natal	45	28	-	-	2,369	-	121	2	7	0	90	21	85	16
3. Tapanuli Selatan	158	5	-	55	6,154	-	163	586	24	1,062	1	34	141	217
4. Tapanuli Tengah	4	4	-	-	536	4	10	5	0	40	6	2	36	5
5. Tapanuli Utara	153	29	-	45	11,551	1	1	82	3	370	15	38	257	305
6. Toba Samosir	697	9	-	59	4,314	356	2	20	1	389	16	24	315	232
7. Labuhan Batu	289	16	-	22	9,868	1	105	232	4	41	37	39	160	86
8. Asahan	1,042	27	-	180	22,338	10	185	373	13	29	9	54	129	61
9. Simalungun	358	64	-	24	14,759	161	78	371	7	79	8	26	146	66
10. Dairi	62	189	-	-	7,734	-	5	20	0	75	14	19	46	36
11. Karo	27	99	-	106	32,161	343	-	30	0	155	0	5	28	63
12. Deli Serdang	2,175	508	42	766	35,609	502	1,702	740	22	323	64	85	249	66
13. Langkat	691	5	-	207	14,337	25	2,126	397	0	18	20	51	114	48
14. Others (Municipalities)	175	27	-	102	5,315	1	122	88	0	49	4	24	23	1(
Province Total	5,892	1,011	42	1,568	168,662	1,404	4,734	2,947	81	2,693	318	457	1,753	1,281
Indonesia	97,033	4,013	24,038	188,860	1,757,280	21,253	348,436	40,173	6,238	35,063	17,982	6,716	28,778	45,402

 Table A-1.4.5
 Inventory on Farm Machinery by District in 2000: North Sumatra

Source: Alat-alat Pertanian Menurut Propinsi dan Kabupaten di Indonesia, 2000, BPS

				Vegetal	oles				
Commodity	Chilly	Potato	Cabbage	Tomato	Long Beans	Egg Plant	Chinese Cabbage	Shallot	French Beans
Harvested Area (ha)	18,860	13,730	10,920	7,760	5,510	4,980	4,550	4,410	3,710
Production (ton)	128,170	276,380	261,910	214,720	30,990	19,940	74,350	36,470	71,320
				Fruit	s				
Commodity	Citrus	Durian	Mango	Pineapple	Jack Fruit	Duku	Cashew	Mangostin	Avocado
Harvested Area (ha)	14,700	8,100	3,900	2,200	2,100	1,000	900	820	700
Production (ton)	187,000	66,100	18,600	31,300	17,700	5,100	4,500	4,500	3,600
			Ε	state Crops by S	Smallholders				
Commodity	Rubber	Oil Palm	Coffee	Cocoa	Incense	Candlenut	Cinnamon	Clove	Coconut
Planted Area (ha)	340,830	178,560	61,710	27,890	22,540	15,970	6,440	4,560	142,960
Production (ton)	232,850	2,304,090	39,200	19,160	-	-	-	1,540	111,340
			Estate	Crops by Public	c & Private Esta	nte			
Commodity	Oil Palm	Rubber	Cocoa	Sugar Cane	Tea	Tobacco	-	-	-
Planted Area (ha)	273,930	51,170	16,310	13,880	8,580	2,580			
				Livesto	ock				
Kind	Cow	Milking Cow	Buffalo	Goat	Sheep	Pig	Broiler	Egg Layer	Domestic Hen
Population	248,100	64,500	259,100	703,400	199,300	807,400	27,565,000	16,117,000	21,361,000

 Table A-1.4.6
 Production Features of Vegetables, Fruits, Estate Crops and Livestock in 2001: North Sumatra

Note: Rounded figures

Source: Sumatra Utara Dalam Angka, 2001

		Irrigation	Scheme		S	Staff A	lloacti	on			St	aff Av	ailabil	ity	
	District / Municipal	Scheme	Area	OS	ΙΟ	P2B	P2A	TW	Total	OS	ΙΟ	P2B	P2A	TW	Total
		(No.)	(ha)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)	(psn)
1	Nias	32	5,964	0	4	5	8	11	28	0	0	0	0	0	0
2	Mandaling Natar	27	12,324	0	14	12	30	47	103	2	3	0	0	0	5
3	Tapanuli Selatan	93	22,373	0	11	8	10	28	57	2	9	1	1	0	13
4	Tapanuli Tengah	37	14,353	0	11	15	16	36	78	0	0	1	1	0	2
5	Tapanuli Utara	74	17,629	0	0	10	12	33	55	0	2	2	0	0	4
6	Toba Samosir	77	18,051	0	13	20	12	35	80	0	3	6	4	5	18
7	Labuhan Batu	16	7,420	5	7	10	14	56	92	4	0	0	0	0	4
8	Asahan	22	28,844	18	8	14	49	166	255	4	4	7	0	0	15
9	Simalungun	177	59,322	0	28	30	25	166	249	0	0	0	0	0	0
10	Dairi	87	17,509	23	4	38	10	45	120	2	3	2	0	1	0
11	Karo	46	11,699	0	17	15	11	73	116	6	3	4	0	8	21
12	Deli Serdang	33	48,163	0	54	35	42	124	255	0	0	0	0	0	0
13	Langkat	27	6,102	0	4	21	17	39	81	0	0	0	0	0	0
14	Inter-District (Lintas Kabupaten)	9	26,213	0	16	10	14	34	74	27	25	10	54	118	234
15	Kota Padang Sidimpuan	8	2,873	0	1	6	5	9	21	0	0	0	1	0	1
16	Kota Pematang Siantar	5	682	0	1	2	3	3	9	0	0	0	0	0	0
17	Kota Tebibg Tinggi	0	0	0	1	0	0	2	3	0	0	0	0	0	0
	Total	770	299,521	46	194	251	278	907	1,676	47	52	33	61	132	317

Table A-1.5.1 Availability of Irrigation O&M Staff by District in North Sumatra

Source : Inventarisasi Luasan, Sarana/Presarane dan Personil O&P Daerah Irrigasi dan Rawa Tahun 2002, Dinas Pengairan Sumatera Utara Remarks : T; Technical irrigation scheme, ST; Semi-technical irrigation scheme, SD; Simple irrigation scheme

	District /		Techr Irrigation	iical Scheme	;		Semi-teo Irrigation	chnical Scheme			Simp Irrigation	ole Scheme	;		To	tal	
	Municipal	Se	cheme	No. of	WUA	So	cheme	No. of	WUA	Se	cheme	No. of	WUA	S	cheme	No. of	f WUA
		No.	Area (ha)	Target	Establ.	No.	Area (ha)	Target	Establ.	No.	Area (ha)	Target	Establ.	No.	Area (ha)	Target	Establ.
1	Nias	1	1,258	5	5	13	2,696	22	12	18	2,010	33	6	32	5,964	60	23
2	Mandaling Natar	2	6,420	42	23	17	3,629	46	13	8	2,275	11	4	27	12,324	99	40
3	Tapanuli Selatan	4	6,080	54	43	42	8,834	181	66	47	7,459	68	15	93	22,373	303	124
4	Tapanuli Tengah	9	6,861	26	14	25	6,612	38	23	3	880	5	3	37	14,353	69	40
5	Tapanuli Utara	1	602	3	0	56	15,532	104	61	18	1,495	20	13	75	17,629	127	74
6	Toba Samosir	7	3,483	23	21	53	13,298	114	67	17	1,270	20	12	77	18,051	157	100
7	Labuhan Batu	4	4,541	12	10	5	1,344	8	6	7	1,535	8	8	16	7,420	28	24
8	Asahan	9	13,622	50	45	12	11,991	46	40	1	3,231	2	1	22	28,844	98	86
9	Simalungun	108	45,908	438	429	29	4,835	35	31	37	8,579	29	29	174	59,322	502	489
10	Dairi	0	0	0	0	51	12,198	110	55	36	5,311	52	35	87	17,509	162	90
11	Karo	0	0	0	0	46	11,699	67	65	0	0	0	0	46	11,699	67	65
12	Deli Serdang	15	23,086	240	80	17	21,077	187	38	1	4,000	7	1	33	48,163	434	119
13	Langkat	2	882	8	7	25	5,220	34	33	0	0	0	0	27	6,102	42	40
14	Inter-District (Lintas Kabupatei	7	16,570	58	33	1	443	3	2	1	6,400	7	1	9	23,413	68	36
15	Kota Padang Sidimpuan	1	360	2	1	7	2,513	27	3	1	75	1	0	9	2,948	30	4
16	Kota Pematang Siantar	3	462	3	3	0	0	0	0	2	220	2	2	5	682	5	5
17	Kota Tebibg Tinggi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	173	130,135	964	714	399	121,921	1,022	515	197	44,740	265	130	769	296,796	2,251	1,359

Table A-1.5.2 Target and Realization of WUA Establishment by Level of Irrigation Scheme in North Sumatra

Source : Inventarisasi Keberadaan Unit P3A Propinsi Sumatera Utara, April 1999, Dinas Pekerjaan Umum Pengairan Sumatera Utara

	No. of Gov't	WUA Esta	blishment			W	/UA Perf	ormance	and State	us		
District/Municipal	Irrigation	No. of	WUA	Ι	Develope	d	Unde	er Develo	oping	Not Y	et Deve	loped
	Scheme	Target	Establ.	BBH	SBH	Total	BBH	SBH	Total	BBH	SBH	Total
1 Nias	32	60	23	0	0	0	12	0	12	11	0	11
2 Mandaling Natar	27	99	40	11	0	11	28	0	28	1	0	1
3 Tapanuli Selatan	93	303	124	4	0	4	64	0	64	55	1	56
4 Tapanuli Tengah	37	69	40	13	0	13	27	0	27	0	0	0
5 Tapanuli Utara	74	127	74	0	36	36	33	0	33	5	0	5
6 Toba Samosir	77	157	100	0	0	0	94	0	94	6	0	6
7 Labuhan Batu	16	28	24	0	1	1	8	5	13	9	1	10
8 Asahan	22	98	86	0	3	3	37	19	56	27	0	27
9 Simalungun	177	502	489	0	14	14	154	0	154	321	0	321
10 Dairi	87	162	90	0	0	0	77	8	85	5	0	5
11 Karo	46	67	65	13	1	14	0	0	0	51	0	51
12 Deli Serdang	33	434	119	3	1	4	44	35	79	37	0	37
13 Langkat	27	42	40	0	0	0	0	12	12	16	12	28
14 Inter-District (Lintas Kabupate	n 9	68	36	0	0	0	15	8	23	7	6	13
15 Kota Padang Sidimpuan	8	30	4	0	0	0	2	0	2	1	1	2
16 Kota Pematang Siantar	5	5	5	0	0	0	5	0	5	0	0	0
17 Kota Tebibg Tinggi	0	0	0	0	0	0	0	0	0	0	0	0
Total	770	2,251	1,359	44	56	100	600	87	687	552	21	573

Table A-1.5.3 WUA Establishment and Performance in North Sumatra

Remarks : SBH : Already registered in local court of justice

BBH : Not yet registered in local court of justice

	Pe	r Capita Inc	come and Rev	enues in Ru	piah for 20	01	Actual Rec	eipts and Exp	penditures in	million Rup	biah for 2000
			Own Fiscal	Capacity		DALL			E 1'4		Expenses
District/Municipality	GRDP	Own	Non-tax from	Share		DAU + Contin-	Total		Expenditures	5	for Water Resources
	Gibi	Source Revenue	Natural Resources	Taxes	Total	gency	Receipt	Total	Current	Develop- ment	& Irrigation Sector
1 Nias	2,948,109	3,059	5,640	8,459	17,158	282,156	96,991	88,893	53,889	35,004	170
2 Mandaling Natar	3,231,487	6,500	13,477	11,210	31,187	393,965	61,845	56,464	33,069	23,395	40
3 Tapanuli Selatan	4,533,704	4,337	6,315	14,800	25,452	342,632	131,679	126,219	82,504	43,715	192
4 Tapanuli Tengah	3,668,485	7,522	12,237	19,194	38,953	446,309	55,456	54,774	30,953	23,821	207
5 Tapanuli Utara	3,319,474	10,665	6,242	10,650	27,557	463,704	97,406	91,489	52,267	39,222	20
6 Toba Samosir	3,826,558	14,527	6,715	10,260	31,502	419,585	57,342	49,981	33,821	16,160	85
7 Labuhan Batu	7,250,532	6,491	5,046	20,758	32,295	216,556	143,518	137,795	101,252	36,543	2,130
8 Asahan	6,537,456	12,283	2,183	22,065	36,531	230,563	127,415	117,302	88,250	29,052	428
9 Simalungun	4,276,175	7,984	2,386	24,638	35,008	322,888	143,518	137,795	101,252	36,543	2,130
10 Dairi	4,190,512	9,148	9,288	12,396	30,832	349,844	54,200	21,268	6,500	14,768	0
11 Karo	5,637,414	30,110	7,305	13,821	51,236	377,500	58,357	53,142	42,241	10,901	0
12 Deli Serdang	3,071,936	8,655	1,519	14,417	24,591	180,710	205,279	187,720	145,353	42,367	1,029
13 Langkat	4,779,307	9,599	14,833	22,811	47,243	235,790	119,431	115,182	84,251	30,931	198
14 Kota Sibolga	5,083,683	21,996	24,981	34,407	81,384	527,301	26,993	25,506	13,694	11,812	0
15 Kota Tanjung Balai	5,219,342	24,930	15,461	26,036	66,427	601,218	33,902	28,078	16,222	11,856	99
16 Kota Pematang Siantar	6,346,999	39,163	8,477	19,665	67,305	408,212	45,739	44,440	32,616	11,824	5
17 Kota Tebing Tinggi	5,490,974	22,167	16,321	25,599	64,087	599,052	33,825	30,713	16,643	14,070	49
18 Kota Medang	5,636,270	35,978	1,075	34,427	71,480	148,937	215,743	212,656	158,689	53,967	0
19 Kota Binjai	3,323,993	13,370	9,574	24,396	47,340	550,975	46,107	44,586	29,875	14,711	0
Consolidated Provincial Revenue/Tota	al 5,811,463	30,908	6,520	27,014	64,442	298,978	1,754,746	1,624,003	1,123,341	500,662	6,782

Table A-1.6.1	Financial Condition	of District/Munici	pal Governments in	North Sumatra
1 adie A-1.6.1	Financial Condition	of District/Munici	pai Governments in	North Sumatra

Source: Actual Receipts and Expenditures of District/Municipality Government 1999/00 - 2000 by BPS and Decentralizing Indonesia by WB

Note: Due to the trasition period of changing fiscal year, the term of fiscal year 2000 is 9 months starting from April 1 and ending at December 31, 2000.

No.	Irrigation Scheme	District	Technical Level (*1)	Registered Area (ha)	Classification of Rehabilitation (*2)
1.	Gido Sebua	Nias	Т	1.258	REH
2.	Batang Gadis	Mandaling Natal	Т	6.628	REH
3.	Batang Ilung	Tapanuli Selatan	Т	4,194	REH
4.	Blk Sitongkon/Napa Suron	Tapanuli Selatan	ST	1,012	REH
5.	Siborna	Tapanuli Selatan	ST	1,000	UPG
6.	Siaili Tukka	Tapanuli Tengah	Т	1,057	UPG
7.	Badiri Lopian	Tapanuli Tengah	Т	1.283	REH
8.	Pandurungan	Tapanuli Tengah	Т	1.769	UPG
9.	Sihiong	Tapanuli Tengah	NT	2.000	UPG
10.	Aek Silang	Tapanuli Utara	ST	1.500	UPG
11.	Sarulla	Tapanuli Utara	ST	2.692	UPG
12.	Parmiahan Hutapaung	Tapanuli Utara	ST	1.000	UPG
13	Sinamo	Tapanuli Utara	ST	1,000	UPG
14	Aek Mandos I	Toba Samosir	ST	1,000	UPG
15	Simangatasi II	Toba Samosir	T	1,515	REH
16	Bulung Ihit	Labuhan Batu	T	5 000	REH
17	Perkotaan	Asahan	T	3 457	UPG
18	Sungai Balai	Asahan	ST	1 185	REH
19	Panca Arga	Asahan	T	2 500	UPG
20	Serbangan	Asahan	T	2,333	REH
20.	Silau Bonto	Asahan	NT	3 231	LIPG
22	Sungai Silau	Asahan	ST	1 315	UPG
22.	Padang Mahondang	Asahan	ST	3 231	UPG
23.	Simulur	Asahan	ST	2 560	UPG
25	Purwodadi	Asahan	T	1 635	REH
26	Pentara	Simalungun	ST	1,035	LIPG
27	Simantin Pane Dame	Simalungun	NT	1,000	UPG
28	Panambean / Panet Tongah BK	Simalungun	Т	1,000	REH
29	Raja Hombang / T. Mangaraja	Simalungun	T	2.045	REH
30	Kerasaan	Simalungun	T	5 000	LIPG
31	Javacolonisasi/Purbogondo	Simalungun	T	1 030	REH
32	Naga Sompah	Simalungun	T	1 360	REH
33	Risma Duma	Dairi	ST	1,500	UPG
34	Lae Ordi	Dairi	ST	1,200	UPG
35	Parit Lompaten	Karo	ST	1,200	UPG
36.	Bandar Sidoras	Deli Serdang	ST	3.457	UPG
37	Namu Rambe	Deli Serdang	Т	1 036	REH
38	Sei Belutu	Deli Serdang	ST	5.082	REH
39.	Langau	Deli Serdang	ST	2.000	UPG
40.	Medan Krio	Deli Serdang	T	3.016	UPG
41.	Rantau Panjang	Deli Serdang	ST	2.309	REH
42.	Pekan Kamis	Deli Serdang	ST	1,100	UPG
43.	Secanggang	Langkat	ST	1,400	UPG
44.	Pava Lobang	Deli Serdan/Tebing Tinggi	ST	1,558	UPG
45	Namu Sira-sira Kiri	Langkat/Biniai	Т	2.250	REH
46.	Namu Sira-sira Kanan	Langkat/Binjai	T	4.100	REH
47.	Bah Korah II	Simalungun/Siantar	Т	1.995	REH
48.	Sijambi	Asahan/Tanjung Balaj	Т	1.013	UPG
49.	Rambung Mera	P. Siantar/Simalungun	T	1.104	REH
50.	Paya Sordang	Tapanuli Sel/Mandailing Natal	Т	4.350	UPG
				,	UPG: 29
	1 otal			108,341	REH: 21

Table A-2.3.1 Selected Irrigation Schemes : North Sumatra

Remarks:

*1. T : Technical ST : Semi Technical

*2. UPG: Upgrading

REH: Rehabilitation

Table A-4.2.1	Existing Condition	of Water Resource	Facility : North Sumatra
I WOIC II IIMII	Existing Condition	or mater resource	i actify i i torth Sumatra

No.	Irrigation Scheme	District	Technical Level ¹⁾	Registered Area (ha)	Age of the Facilities (years)	Catchment Area (km ²)	Type of Facility	Type of Weir	Length of Weir (m)	Design Intake Discharge (m ³ /s)	No. of Scouring Sluice Gate	No. of Intake Gate	Provision of Settling Basin	Provision of Inspection Bridge	Condition
1.	Gido Sebua	Nias	Т	1,258	11	156	Headworks	Fixed weir	56	1.1	1	1	provided	provided	В
2.	Batang Gadis	Mandaling Natal	T	6,628	11	880	Headworks	Fixed weir	63	5.7	4	4	not provided	not provided	В
3.	Batang Ilung	Tapanuli Selatan	T	4,194	11	302	Headworks	Fixed weir	40	5.7	2	3	provided	provided	В
4.	Blk Sitongkon/Napa Suron	Tapanuli Selatan	SI	1,012	27	143	Headworks	Gabion weir	51	2.6	0	2	not provided	not provided	D
5.	Siborna	Tapanuli Selatan	51	1,000	19	135	Headworks	Gabion weir	00	1.0	0	2	not provided	not provided	D
0. 7	Statili Lukka Dodini Lonion	Tapanuli Tangah	I	1,057	17	100	Free Intelse	Fixed weir	1/	1./	1	2	not provided	not provided	D
/.	Badiri Lopian	Tapanuli Tangah	I	1,283	14	225	Hee Intake	- Fired wain	20	3.4	-	2	not provided	- not provided	D
0. 0	Sibiong	Tapanuli Tangah	I	2,000	19	400	Headworks	Fixed weir	50	2.5 N/A	1	2	not provided	not provided	D
10	Aek Silang	Tapanuli Utara	ST	1,500	13	164	Free Intake	-	,	3.0	2	1	not provided	-	C
11	Sarulla	Tapanuli Utara	ST	1,500	28	228	Headworks	Gabion weir	25	1.5	0	1	not provided	not provided	C
12	Parmiahan Hutanaung	Tapanuli Utara	ST	1,002	10	164	Headworks	Fixed weir	11	0.7	1	1	not provided	not provided	B
13	Sinamo	Tapanuli Utara	ST	1,000	34	144	Headworks	Fixed weir	20	2.7	1	1	not provided	not provided	D
14	Aek Mandos I	Toba Samosir	ST	1,000	10	155	Headworks	Fixed weir	55	0.9	1	2	not provided	not provided	č
15	Simangatasi II	Toba Samosir	T	1,515	11	170	Headworks	Fixed weir	15	0.7	1	1	not provided	not provided	č
16.	Bulung Ihit	Labuhan Batu	Ť	5,000	5	420	Headworks	Fixed weir	17	6.0	2	2	provided	not provided	B
17	Perkotaan	Asahan	Т	3 457	14	850	Headworks	Movable weir	19	6.5	-	4	provided	provided	в
18.	Sungai Balai	Asahan	ST	1,185	5	290	Headworks	Fixed weir	30	1.7	1	2	not provided	not provided	Ē
19.	Panca Arga	Asahan	Т	2,500	10	375	Headworks	Fixed weir	25	1.0	1	2	not provided	provided	C
20.	Serbangan	Asahan	Т	2,333	10	88	Headworks	Fixed weir	35	2.4	2	5	not provided	provided	С
21.	Silau Bonto	Asahan	NT	3,231	10	85	Free Intake	-	-	N/A	-		 not provided 	not provided	D
22.	Sungai Silau	Asahan	ST	1,315	32	106	Free Intake	-	-	2.0	-	3	not provided	-	D
23.	Padang Mahondang	Asahan	ST	3,231	22	500	Free Intake	-	-	0.6	-	2	not provided	-	D
24.	Simujur	Asahan	ST	2,560	18	125	Free Intake	-	-	1.0	-	4	not provided	-	D
25.	Purwodadi	Asahan	Т	1,635	14	154	Headworks	Movable weir	30	10.0	-	2	not provided	provided	С
26.	Pentara	Simalungun	ST	1,034	12	120	Headworks	Fixed weir	15	1.5	1	1	provided	not provided	С
27.	Simantin Pane Dame	Simalungun	NT	1,000	14	58	Free Intake	-	-	1.5	-	1	not provided	-	D
28.	Panambean / Panet Tongah BK	Simalungun	Т	1,723	12	131	Headworks	Fixed weir	50	3.0	2	4	provided	not provided	В
29.	Raja Hombang / T. Mangaraja	Simalungun	Т	2,045	9	229	Headworks	Fixed weir	20	4.5	2	4	provided	provided	В
30.	Kerasaan	Simalungun	Т	5,000	15	636	Headworks	Fixed weir	125	7.4	4	3	provided	not provided	С
31.	Javacolonisasi/Purbogondo	Simalungun	T	1,030	14	200	Headworks	Fixed weir	30	5.6	1	2	provided	not provided	В
32.	Naga Sompah	Simalungun	T	1,360	16	588	Free Intake	-		2.0	-	1	not provided	-	D
33.	Risma Duma	Dairi	ST	1,522	21	193	Headworks	Fixed weir	15	N/A	N/A	1	not provided	not provided	C
34.	Lae Ordi	Dairi	SI	1,200	14	178	Headworks	Fixed weir	20	0.8	1	2	not provided	provided	C
35. 26	Parit Lompaten	Karo Deli Gentene	SI	1,242	20	200	Headworks	Fixed weir	25	1.5	0	1	not provided	not provided	D
36.	Bandar Sidoras	Deli Serdang	51	3,45/	18	166	Headworks	Fixed weir	/3	6.8	2	4	not provided	provided	D
37.	Namu Kambe	Deli Serdang	I CT	1,030	57	260	Free Inteles	Fixed weir	50	2.1	2	2	provided	not provided	D
20.	Langou	Deli Serdang	51 ST	3,082	40	930	Free Intake	-	-	10.0	-	2	not provided	-	D
39. 40	Langau Medan Krio	Deli Serdang	51 T	2,000	24	695	Headworks	- Fixed wair	42	2.0	-	2	not provided	- provided	D C
40.	Rantau Panjang	Deli Serdang	ST	2 200	23	1 021	Headworks	Fixed weir	42 N/A	2.0 N/A	N/A	J N/A	provided	provided	D
41.	Pekan Kamis	Deli Serdang	ST	2,309	33	1,031	Free Intake	Fixed wen	IN/PA	N/A	18/74	18/2	not provided	not provided	D
42.	Secanggang	Langkat	ST	1,100	18	88	Free Intake	_		75		2	not provided		D
44	Paya Lobang	Deli Serdan/Tehing Tinggi	ST	1,400	22	883	Headworks	Fixed weir	70	1.8	N/A	3	not provided		C
45	Namu Sira-sira Kiri	Langkat/Binjaj	Т	2 250	24	970	Headworks	Fixed weir	43	4 2	2	2	nrovided	provided	B
46	Namu Sira-sira Kanan	Langkat/Binjai	Ť	4 100	24	970	Headworks	Fixed weir	43	7.5	2	2	provided	provided	B
47	Bah Korah II	Simalungun/Siantar	Ť	1 995	12	336	Headworks	Fixed weir	30	53	4	4	provided	not provided	B
48.	Sijambi	Asahan/Tanjung Balai	Ť	1,013	10	250	Free Intake	-	-	1.2	2	2	not provided	-	D
49.	Rambung Mera	P. Siantar/Simalungun	Т	946	16	159	Headworks	Fixed weir	60	2.1	6	3	provided	provided	В
50.	Paya Sordang	Tapanuli Sel/Mandailing Natal	Т	4,350	11	228	Headworks	Fixed weir	72	3.2	6	6	provided	provided	В
	Total	2		107,183											
	Average			2,144	18	332			39						
	Itemized Total		T:25				dam: 0	fixed weir: 32					provided: 16	provided: 14	A:0
			ST : 22				headworks: 37	movable weir: 2					not provided: 34	not provided: 23	B:14
			NT : 3				free intake: 13	gabion weir: 3							C:14

Note: 1): T: Technical, ST: Semi-technical, NT: Non-technical

N/A : no information was available

Condition: A: Functioning well, B: Partially deteriorated, C: Not functioning well, D: Serious condition for operation Source: Inventory Survey Works for the Study on Comprehensive Recovery Program of Irrigation Agriculture

				Desta								W	eir, Fl	lood W	Vay ar	nd Scou	aring S	luice				Ir	ntake fo	or Head	lworks	or Free Int	ake		0.8	M	Car	nditior	/Droblom		
				Regis	tered Area	a (ha)						Ci	vil W	orks				Gate a	ind Met	al Works		Civil	Works		G	ate and Me	etal Work	s	0 &	. 191	Cor	nattioi	Problem		
No	Irrigation Scheme	District	Existing Technical Level	Total	Potensial Area	Non-Potential Area	Type of Facility	Provision of Settling Basin	Year Constructed	W-16 Crack or damage on weir crest	W-17 Leakage from foundation and/or settlement of weir body Incline settlement or deflection of	W-18 memory sector of action of acti	W-19 Settlement or breakage of apron Settlement or washed away of	W-20 Octoonton of washed away of stilling basin Fallan down incline or washed	W-21 ratten down, incline or wasned away of retaining wall of weir	Washed away of ripraps or blocks at downstream of stilling basin	W-23 Physical O&M problem due to overage facility	W-24 Leakage from gate leaf or guide frame	W-25 Insurticient strength against design load due to rust, decay of steel Physical operational problem due to	W-26 deflection W-27 Problem on management due to Jack of periodically maintenance	W-28 Insufficient diversion water due to river bed degradation	W-29 Insufficient diversion water due to sedimentation in front of intake	W-30 Incline, settlement or deflection of intake structure	W-31 Inflow of bed loads into canal and decrease canal flow capacity	W-32 Leakage from intake gate(s) or guide frame	W-33 Insufficient strength against design load due to rust, decay of steel W-34 Physical operational problem due to	derlection/ trouble W-35 Problem on management due to W-36 lack of periodically maintenance	W-36 Overage, Lower strength of intake gate(s)	W-37 Difficulty on O & M due to facility problem	W-38 Difficulty on proper water distribution/discharge measurement	A Fully functioning	B Partly deteriorated, but functioning in a satisfactory range	C Not functioning well and/or affecting the downstream flow D Serious condition for operation, replace and reconstruction is	Problem Constra Sumn	ns and hints: hary
														-		-					-	-		-						·					
1.	Gido Sebua	Nias	T	1,258	1,258	0	Headworks	provided	1992	A	A	A	A	A	B	B	A	B	B	A B	A	B	B	C	B	B A	B	A	B	B	10	12	1 0	22 2	.9 31
2.	Batang Gadis	Mandaling Natal	T	6,628	6,628	0	Headworks	not provided	1992	A	A	A	A	В	В	В	A	В	В	A B	A	C	A	C	B	B A	B	A	B	В	10	11	2 0	29 3	1
3.	Batang Ilung	Tapanuli Selatan	1	4,194	4,194	100	Headworks	provided	1992	A	A	A A	A	A	A	B	A	В	A	A B	A	B	A	В	B	B A	B	A	B	B	13	10	0 0	31	2 21
4.	Siborna	Tapanuli Selatan	51 ST	1,012	912	100	Headworks	not provided	1970	D	D		D	D	C	C	D	C	C		D	D	C	D	C		C	C	C	D	0	1	12 10	17 2	2 31
5.	Sibolla Siaili Tukka	Tapanuli Tangah	51 T	1,000	1,000	0	Headworks	not provided	1984	C	D		C I	C	C	C	D	C	C		C	C	C	C	C		C	C	C	C	0	2	20 0	20 2	2 29
7	Badiri Lopian	Tapanuli Tengah	T	1,037	1,037	0	Free Intake	not provided	1980	C	в	ы	¢	C	Eree I	ntake	в	C	C		D	D	D	D	C	C C	D	C	D	D	0	0	20 0	20 2	9 34
8	Pandurungan	Tapanuli Tengah	T	1,205	1,205	0	Headworke	not provided	198/	C	C	DI	D	C	D	D	в	D	D	D D	C	D	D	D	D	C C	D	C	C	D	0	1	8 14	18 3	1 35
9	Sibiong	Tapanuli Tengah	NT	2 000	255	1 745	Headworks	not provided	1984	D	D	D I	D	D	D	D	B	D	D	D D	D	D	D	D	D	D D	D	D	D	D	0	1	0 22	17 2	9 37
10	Aek Silang	Tapanuli Utara	ST	1 500	1 500	1,710	Headworks	not provided	1990					-	Free I	ntake			5		B	C	B	D	C	C C	C	C	C	C	0	2	8 1	29 3	1 38
11.	Sarulla	Tapanuli Utara	ST	2.692	1,214	1.478	Headworks	not provided	1975	С	D	DI	D	D	D	D	В	D	D	D D	B	D	D	D	D	D D	D	D	D	D	0	2	1 20	18 2	9 31
12.	Parmiahan Hutapaung	Tapanuli Utara	ST	1.000	1.000	0	Headworks	not provided	1993	A	В	A	A	В	В	В	А	С	С	B C	В	С	В	В	В	B C	С	В	С	С	4	11	8 0	29 3	18
13.	Sinamo	Tapanuli Utara	ST	1,000	1,000	0	Headworks	not provided	1969	D	D	D I	D	D	D	D	С	D	D	D D	D	D	D	D	D	D D	D	D	D	D	0	0	1 22	17 2	2 37
14.	Aek Mandos I	Toba Samosir	ST	1,060	1,060	0	Headworks	not provided	1993	С	C	C (С	С	С	С	А	С	С	C C	С	С	С	С	С	C C	С	С	С	С	1	0	22 0	17 2	0 29
15.	Simangatasi II	Toba Samosir	Т	1,515	1,515	0	Headworks	not provided	1992	В	В	B I	В	С	С	С	А	С	С	C C	С	С	С	С	С	C D	D	С	С	С	1	4	16 2	21 2	.9 34
16.	Bulung Ihit	Labuhan Batu	Т	5,000	3,300	1,700	Headworks	provided	1998	В	В	B I	В	В	В	В	Α	В	В	B B	В	С	В	В	В	B B	В	В	В	В	1	21	1 0	29	
17.	Perkotaan	Asahan	Т	3,457	3,457	0	Headworks	provided	1989	В	В	B I	В	В	D	С	Α	С	С	B C	Α	С	Α	С	С	C B	С	В	В	В	3	10	9 1	21 2	.5 31
18.	Sungai Balai	Asahan	ST	1,185	1,185	0	Headworks	not provided	1998	В	В	B I	В	В	С	С	А	С	C	C C	В	С	В	C	C	C C	С	С	С	С	1	7	15 0	21 2	.9 31
19.	Panca Arga	Asahan	Т	2,500	2,500	0	Headworks	not provided	1993	В	В	C (С	В	В	В	А	С	C	C C	В	В	В	В	C	C C	С	С	С	С	1	9	13 0	18 2	.6 34
20.	Serbangan	Asahan	Т	2,333	2,333	0	Headworks	not provided	1993	В	В	C 1	В	С	С	С	Α	D	D	C C	В	D	С	С	С	C C	С	В	С	С	1	5	14 3	20 2	.5 29
21.	Silau Bonto	Asahan	NT	3,231	3,231	0	Free Intake	not provided	1993						Free I	ntake					D	D	D	D	D	D D	D	D	D	D	0	0	0 11	29 3	1 35
22.	Sungai Silau	Asahan	ST	1,315	1,315	0	Free Intake	not provided	1971						Free I	ntake					D	D	D	D	D	D D	D	D	D	D	0	0	0 11	29 3	1 37
23.	Padang Mahondang	Asahan	ST	3,231	3,231	0	Free Intake	not provided	1981						Free I	ntake					D	D	D	D	D	D D	D	D	D	D	0	0	0 11	29 3	1 37
24.	Simujur Domon da di	Asahan	SI T	2,560	1,200	1,360	Free Intake	not provided	1985	D		D (c I	C	Free I	ntake		6	6	C C	D	D	D	D	D	D D	D	D	D	D	0	0	0 11	28 2	9 31
25.	Putwodadi	Asanan	I CT	1,033	1,033	0	Headworks	not provided	1989	Б	C		C	C	C	C	A	C	C		C	C	C	C	C	0 0	D C	c	C	D C	1	2	13 3	2.5 2	9 38
20.	Simantin Pane Dame	Simalungun	NT	1,004	1,034	0	Free Intake	not provided	1991	C	C		¢	C	Eree I	ntake	A	C	C		D	D	D	D	D	D D	D	D	D	D	0	0	0 11	29 3	1 37
27.	Panambean / Panet Tongah BK	Simalungun	Т	1,000	1,000	0	Headworks	provided	1991	B	B	BI	B	B	C	C	Α	C	C	C C	B	B	B	B	C	B B	C	B	B	B	1	14	8 0	21 2	7 35
29	Raia Hombang / T. Mangaraja	Simalungun	Ť	2.045	2.045	0	Headworks	provided	1994	B	B	B	B	B	C	B	A	B	B	B B	B	C	B	C	C	B C	C	C	C	C	1	13	9 0	21 2	9 31
30.	Kerasaan	Simalungun	Т	5,000	5,000	0	Headworks	provided	1988	В	В	BI	в	В	В	С	В	С	С	C C	В	C	С	С	C	C C	C	В	C	С	0	9	14 0	29 3	1 38
31.	Javacolonisasi/Purbogondo	Simalungun	Т	1,030	1,030	0	Headworks	provided	1989	В	В	B I	В	В	В	С	Α	В	С	B B	В	В	В	В	С	B B	С	В	В	В	1	18	4 0	25 3	.3
32.	Naga Sompah	Simalungun	Т	1,360	1,360	0	Free Intake	not provided	1987						Free I	ntake					В	D	D	D	D	D D	D	D	D	D	0	1	0 10	29 3	.4
33.	Risma Duma	Dairi	ST	1,522	1,400	122	Headworks	not provided	1982	С	С	C (С	С	С	С	В	С	С	C C	С	С	С	С	С	C C	С	С	С	С	0	1	22 0	29 3	1
34.	Lae Ordi	Dairi	ST	1,200	607	593	Headworks	not provided	1989	С	С	C (С	С	С	С	Α	С	С	C C	С	С	С	С	С	C C	С	С	С	С	1	0	22 0	29 3	-1
35.	Parit Lompaten	Karo	ST	1,242	1,242	0	Headworks	not provided	1983	D	D	DI	D	D	D	D	В	D	D	D D	D	D	D	D	D	D D	D	D	D	D	0	1	0 22	26 3	3
36.	Bandar Sidoras	Deli Serdang	ST	3,457	3,017	440	Headworks	not provided	1985	D	D	DI	D	D	D	D	В	D	D	D D	D	D	D	D	D	D D	D	D	D	D	0	1	0 22	18 2	5 29
37.	Namu Rambe	Deli Serdang	T	1,036	1,036	0	Headworks	provided	1966	D	D	DI	D	D	D	D	С	D	D	DD	D	D	D	D	D	D D	D	D	D	D	0	0	1 22	17 2	.6 29
38.	Sei Belutu	Deli Serdang	SI	5,082	5,082	0	Free Intake	not provided	1963						Free I	ntake					D	D	D	D	D	D D	D	D	D	D	0	0	0 11	29 3	1 33
39.	Langati Madan Krio	Deli Serdang	51 T	2,000	2,000	0	Fiee Intake	not provided	19/9	C		C I	c	C	rree li	С	D	C I	C	C C	D	D C	C	D C	0		D	D	D	D	0	0	21 0	29 3	1 35
40.	Rantau Panjang	Deli Serdang	I ST	2 300	2 300	0	Headworks	provided	1978	D	D			D	D	D	C	D	D		D	D	D	D	D		D	D	D	D	0	2	1 22	2/ Z	9 33
42	Pekan Kamis	Deli Serdang	ST	1 100	1 100	0	Free Intake	not provided	1970						Free I	ntake	C	D	-		C	C	C	C	C	C C	C	C	C	C	0	0	11 0	29 3	1
43	Secanggang	Langkat	ST	1,100	1,100	0	Free Intake	not provided	1985						Free I	ntake					D	D	D	D	D	DD	D	D	D	D	0	0	0 11	Nou	ise
44	Paya Lobang	Deli Serdan/Tebing Tinggi	ST	1.558	1.558	0	Headworks	not provided	1981	С	С	C	сТ	С	C	C	в	С	С	с с	C	C	C	C	C	C C	C	C	C	C	0	1	22 0	29 3	1 34
45.	Namu Sira-sira Kiri	Langkat/Binjai	Т	2,250	2,250	0	Headworks	provided	1979	В	В	BI	В	B	В	В	В	C	C	C C	B	C	B	C	B	B B	B	В	В	В	0	17	6 0	25 2	9 31
46.	Namu Sira-sira Kanan	Langkat/Binjai	Т	4,100	4,100	0	Headworks	provided	1979	В	В	B I	В	В	В	В	В	В	В	B B	В	В	В	В	В	B B	В	В	В	В	0	23	0 0	27 3	5
47.	Bah Korah II	Simalungun/Siantar	Т	1,995	1,995	0	Headworks	provided	1991	В	В	B I	В	В	В	С	А	В	В	B B	В	С	В	С	В	B B	В	В	В	В	1	19	3 0	29 3	,1
48.	Sijambi	Asahan/Tanjung Balai	Т	1,013	1,013	0	Free Intake	not provided	1993						Free I	ntake					D	D	D	D	D	D D	D	D	D	D	0	0	0 11	28 2	.9 31
49.	Rambung Mera	P. Siantar/Simalungun	Т	1,104	1,104	0	Headworks	provided	1987	В	В	B I	B	В	С	В	В	В	В	B B	В	С	В	С	В	B B	В	В	В	В	0	20	3 0	21 2	.9 31
50.	Paya Sordang	Tapanuli Sel/Mandailing Natal	Т	4,350	4,350	0	Headworks	provided	1992	В	В	B I	В	В	В	В	Α	В	В	B B	В	С	В	С	В	B B	В	В	В	В	1	20	2 1	29 3	4
	Total			108,341	100,803	7,538	1											[54	273	342 326		

Table A-4.2.2 Problems and Constraints of Irrigation Scheme : 1. Water Resources Facility: North Sumatra

Remarks: T : Technical ST : Semi Technical NT : Non Technical

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 Condition of Facility:
 Reader

 A : Function well/no rehabilitation is needed.
 B

 B : Partially deteriorated, minor rehabilitation is needed.
 C

 C : Not functioning well and affecting the operation, large scale of rehabilitation is needed.
 D

 D : Serious condition for operation, replace and reconstruction is needed.
 D

Table A-4.2.3 Existing Condition of Irrigation Scheme : 2-1. Canals and Related Structures, Canals Works: North Sumatra

													Co	ondition	of Facility											
								Main Ca	ınal										5	Secondary	/ Canal					
		D					Canal					Inspection	n road	of n					Canal					Inspectior	ı road	of n
No.	Irrigation Scheme	District	1	Length (m)			Ι	ined		Earth	TID	gth 1)	ition	uation		Length (m)			L	ined		Earth	TID	gth 1)	ition	uation nditio
			Lined	Earth	Total	А	В	С	1	D	I otal D	Len (rr	Cond	Evalı Co	Lined	Earth	Total	А	в	С	Γ)	I otal D	Len (n	Cond	Evalı Co
1.	Gido Sebua	Nias	2,702	0	2,702			2,702		0	0	0		С	3,477	8,113	11,590			3,477		8,113	8,113	0		С
2.	Batang Gadis	Mandaling Natal	21,325	950	22,275		21,325			950	950	22,275	В	В	41,768	2,000	43,768		41,768			2,000	2,000	35,014	С	В
3.	Batang Ilung	Tapanuli Selatan	6,360	0	6,360		6,360			0	0	3,180	C	В	48,910	4,600	53,510		48,910			4,600	4,600	32,106	С	В
4.	Blk Sitongkon/Napa Suron	Tapanuli Selatan	0	5,443	5,443					5,443	5,443	0		D	0	8,261	8,261					8,261	8,261	0	<u> </u>	D
5.	Siborna	Tapanuli Selatan	0	7,426	7,426					7,426	7,426	0		D	0	5,131	5,131					5,131	5,131	0	<u> </u>	D
6.	Siaili Tukka	Tapanuli Tengah	0	1,783	1,783					1,783	1,783	1,426	С	D	4,668	1,764	6,432			4,668		1,764	1,764	5,146	С	С
7.	Badiri Lopian	Tapanuli Tengah	350	1,630	1,980	1			350	1,630	1,980	0		D	1,390	5,639	7,029				1,390	5,639	7,029	351	С	D
8.	Pandurungan	Tapanuli Tengah	200	2,065	2,265	_			200	2,065	2,265	0		D	1,545	18,739	20,284				1,545	18,739	20,284	0	<u> </u>	D
9.	Sihiong	Tapanuli Tengah	100	200	300				100	200	300	0		D	100	500	600				100	500	600	0	<u> </u>	D
10.	Aek Silang	Tapanuli Utara	1,500	0	1,500		1,500			0	0	900	С	В	0	4,500	4,500					4,500	4,500	2,700	С	D
11.	Sarulla	Tapanuli Utara	210	724	934			210		724	724	0		C	845	1,975	2,820			845		1,975	1,975	0	<u> </u>	C
12.	Parmiahan Hutapaung	Tapanuli Utara	2,840	1,573	4,413	_	2,840			1,573	1,573	3,530	С	В	3,544	4,918	8,462			3,544		4,918	4,918	4,231	C	C
13.	Sinamo	Tapanuli Utara	500	325	825	_	500			325	325	825	С	В	0	7,620	7,620					7,620	7,620	7,620	C	D
14.	Aek Mandos I	Toba Samosir	360	0	360		360			0	0	180	С	В	0	4,944	4,944					4,944	4,944	2,966	С	D
15.	Simangatasi II	Toba Samosir	4,658	0	4,658		4,658			0	0	466	С	В	3,754	0	3,754		3,754			0	0	375	С	В
16.	Bulung Ihit	Labuhan Batu	450	5,070	5,520				450	5,070	5,520	4,416	В	D	2,875	23,675	26,550				2,875	23,675	26,550	23,895	С	D
17.	Perkotaan	Asahan	2,452	17,128	19,580			2,452		17,128	17,128	19,580	С	С	7,500	32,903	40,403			7,500		32,903	32,903	40,403	С	С
18.	Sungai Balai	Asahan	2,039	1,300	3,339			2,039		1,300	1,300	0		С	0	8,267	8,267					8,267	8,267	0	<u> </u>	D
19.	Panca Arga	Asahan	157	0	157			157		0	0	0		С	2,172	5,328	7,500				2,172	5,328	7,500	0	ļ	D
20.	Serbangan	Asahan	2,100	4,690	6,790			2,100		4,690	4,690	6,790	C	С	3,400	13,311	16,711				3,400	13,311	16,711	0	C	D
21.	Silau Bonto	Asahan	0	0	0		1	No sys	tem provide	d		0		D	0	0	0			No sy:	stem provided	d		0	ļ	D
22.	Sungai Silau	Asahan	0	1,650	1,650					1,650	1,650	0		D	0	16,500	16,500					16,500	16,500	0		D
23.	Padang Mahondang	Asahan	0	3,575	3,575					3,575	3,575	3,575	С	D	0	9,225	9,225					9,225	9,225	9,225	С	D
24.	Simujur	Asahan	0	2,300	2,300					2,300	2,300	1,840	С	D	0	15,700	15,700					15,700	15,700	15,700	С	D
25.	Purwodadi	Asahan	0	12,972	12,972					12,972	12,972	12,972	В	D	0	12,362	12,362					12,362	12,362	12,362	С	D
26.	Pentara	Simalungun	0	10,769	10,769					10,769	10,769	3,231	C	D	0	7,200	7,200					7,200	7,200	0		D
27.	Simantin Pane Dame	Simalungun	0	2,000	2,000					2,000	2,000	2,000	С	D	0	0	0						0	0		D
28.	Panambean / Panet Tongah BK	Simalungun	2,214	4,136	6,350			2,214		4,136	4,136	4,445	С	С	3,081	11,665	14,746			3,081		11,665	11,665	2,212	С	С
29.	Raja Hombang / T. Mangaraja	Simalungun	8,080	14,200	22,280			8,080		14,200	14,200	11,140	С	С	0	10,800	10,800					10,800	10,800	0		D
30.	Kerasaan	Simalungun	7,245	23,061	30,306			7,245		23,061	23,061	30,306	C	С	9,500	43,605	53,105		9,500			43,605	43,605	53,105	C	С
31.	Javacolonisasi/Purbogondo	Simalungun	5,770	5,510	11,280			5,770		6,510	6,510	11,280	В	С	604	3,446	4,050				604	3,446	4,050	0		D
32.	Naga Sompah	Simalungun	8,000	5,417	13,417		8,000			5,417	5,417	6,709	C	В	3,000	6,712	9,712			3,000		6,712	6,712	0		С
33.	Risma Duma	Dairi	0	0	0			No sys	tem provide	d		0	D	D	0	0	0			No sy:	stem provided	d		0		D
34.	Lae Ordi	Dairi	3,000	9,000	12,000			3,000		9,000	9,000	12,000	D	C	0	6,000	6,000					6,000	6,000	6,000	C	D
35.	Parit Lompaten	Karo	1,800	9,980	11,780				1,800	9,980	11,780	11,780	D	D	256	14,262	14,518				256	14,262	14,518	14,518	С	D
36.	Bandar Sidoras	Deli Serdang	491	899	1,390				491	899	1,390	0		D	9,365	28,096	37,461				9,365	28,096	37,461	0		D
37.	Namu Rambe	Deli Serdang	2,193	3,597	5,790			2,193		3,597	3,597	0		С	200	10,836	11,036				200	10,836	11,036	0		D
38.	Sei Belutu	Deli Serdang	100	150	250				100	150	250	0		D	9,000	16,750	25,750			9,000		16,750	16,750	0		С
39.	Langau	Deli Serdang	0	1,900	1,900					1,900	1,900	0		D	350	2,750	3,100				350	2,750	3,100	0		D
40.	Medan Krio	Deli Serdang	2,750	0	2,750			2,750		0	0	0		С	600	22,700	23,300				600	22,700	23,300	0	<u>ا</u>	D
41.	Rantau Panjang	Deli Serdang	0	0	0			No sys	tem provide	d		0		D	0	0	0			Damaged a	and out of ser	vices		0		D
42.	Pekan Kamis	Deli Serdang	0	400	400					400	400	0		D	0	6,200	6,200					6,200	6,200	0		D
43.	Secanggang	Langkat	1,446	10,954	12,400			1,446		10,954	10,954	0		D	250	13,740	13,990				250	13,740	13,990	0		D
44.	Paya Lobang	Deli Serdan/Tebing Tinggi	1,500	3,400	4,900			1,500		3,400	3,400	0		С	500	4,900	5,400				500	4,900	5,400	0		D
45.	Namu Sira-sira Kiri	Langkat/Binjai	6,189	811	7,000			6,189		811	811	7,000	С	С	19,126	9,830	28,956			19,126		9,830	9,830	28,956	С	С
46.	Namu Sira-sira Kanan	Langkat/Binjai	1,200	1,500	2,700			1,200		1,500	1,500	2,700	С	С	31,000	16,226	47,226			31,000		16,226	16,226	37,781	С	С
47.	Bah Korah II	Simalungun/Siantar	8,519	7,272	15,791		8,519			7,272	7,272	11,054	С	В	893	3,403	4,296			-	893	3,403	4,296	0		D
48.	Sijambi	Asahan/Tanjung Balai	0	1,125	1,125					1,125	1,125	0		D	0	9,005	9,005					9,005	9,005	0		D
49.	Rambung Mera	P. Siantar/Simalungun	0	12,136	12,136		1			12,136	12,136	0	1	D	279	2,212	2,491				279	2,212	2,491	2,491	С	D
50.	Paya Sordang	Tapanuli Sel/Mandailing Natal	5,930	7,146	13,076			5,930		7,146	7,146	7,846	С	С	9,528	15,172	24,700			9,528		15,172	15,172	2,470	С	С
	Total		114,730	206,167	320,897	7 0	54,062	57,177	3,491	207,167	210,658	203,445			223,480	481,485	704,965	0	103,932	94,769	24,779	481,485	506,264	339,628	 	
Rema	irks:	Condition of Facility:				-				· · · · · · · · · · · · · · · · · · ·			A :	0					· · ·						A :	0
T	: Technical	A : Function well/no rehabilitati	ion is needed.										B:	9											B:	3
ST NT	: Semi Technical	 B : Partially deteriorated, minor C : Not functioning well and aff 	fecting the ope	is needed.	cale of reba	hilitation	is needed						- C:	17											C:	12
111		 	seeing me ope	and and a second	care or relia	omanon	· needed.							44												55

B: Partially deteriorated, minor rehabilitation is needed. C: Not functioning well and affecting the operation, large scale of rehabilitation is needed. D: Serious condition for operation, replace and reconstruction is needed.

Table A-4.2.4 Existing Condition of Irrigation Scheme : 2-2. Canals and Related Structures, Related Structures (1/2): North Sumatra

• Main Canal

																Condition of Facility																
			Diversion (Main bo	dv onlv)	Off-	take		Box (Culvert		Drop/	/Chute	:		Bridge			Spill	wav		Cross	Drain		Oth	ers					
No.	Irrigation Scheme	District	(Done	nunan Da	aj onij	<i>,</i>	(Dagi)	Codon)		(Corone	Coro	ng)	(Tari				(Jambatan)			(Dalin	nnah)		(0	2 011		(Lain	lain)		Brea	akdown	of Conditi	.on Total
						٨		Sauap)	D		-0010	ng)		unan)	D	٨	(Jenibatan)	D	٨	(Fein	npan)	D	(Gorong	g Silang)			-iaiii)	D	٨	D	C	
1	Gido Sabua	Nine	A D		D	A	Б	C	D	A D	C	D	A D	C	D	A	<u>в</u> с	D	A	Б	1	D	A D	C D	A	Б	U	1	A	D Q		/
2	Patang Gadis	Mandaling Natal	2	1	-	-	12	5		20							7				1				-	1		1	0	61		0 67
3	Batang Ilung	Tananuli Selatan					12	4		37	11						, 4				1				-		13		0	0	33	0 33
4	Blk Sitonskon/Nana Suron	Tapanuli Selatan			1	-		3			8			2			-				2	1					15	1	0	0	15	3 18
5	Siborna	Tapanuli Selatan		3	2	-		3			6			2			2				2							1	0	0	14	2 16
6	Sigili Tukka	Tapanuli Tengah		1	1			5			1			1			2				1				-				0	0	4	1 5
7	Badiri Lopian	Tapanuli Tengah		2						1	1						3										1		0	1	7	0 8
8	Pandurungan	Tapanuli Tengah			2									5			5										•		0	0	5	2 7
9	Sihiong	Tapanuli Tengah					1	I		I	I	l		No s	vstem n	rovided	1	1		I I	I		- I	II				l	0	0	0	0 0
10.	Aek Silang	Tapanuli Utara	1	1		1									p		-					1				1 1			0	1	0	1 2
11.	Sarulla	Tapanuli Utara									2										1								0	0	3	0 3
12.	Parmiahan Hutapaung	Tapanuli Utara	2							3			3	2												4			0	12	2	0 14
13.	Sinamo	Tapanuli Utara		2	1						1																		0	0	3	1 4
14.	Aek Mandos I	Toba Samosir		1					1																				0	0	1	1 2
15.	Simangatasi II	Toba Samosir	1				1																						0	2	0	0 2
16.	Bulung Ihit	Labuhan Batu	1				5			1			1				2												0	10	0	0 10
17.	Perkotaan	Asahan	3				28			11			2																0	44	0	0 44
18.	Sungai Balai	Asahan						4	1								1									1			0	2	4	1 7
19.	Panca Arga	Asahan	1				1										1												0	3	0	0 3
20.	Serbangan	Asahan		5				3			4	2					3												0	0	15	2 17
21.	Silau Bonto	Asahan																											0	0	0	0 0
22.	Sungai Silau	Asahan			2												1												0	0	1	2 3
23.	Padang Mahondang	Asahan						3			3																		0	0	6	0 6
24.	Simujur	Asahan						4																					0	0	4	0 4
25.	Purwodadi	Asahan	1	9						23			5				12			5									0	46	9	0 55
26.	Pentara	Simalungun		1				2													5								0	0	8	0 8
27.	Simantin Pane Dame	Simalungun							3																				0	0	0	3 3
28.	Panambean / Panet Tongah BK	Simalungun	4	1			7	4		2			27	1			4			1						1			0	46	6	0 52
29.	Raja Hombang / T. Mangaraja	Simalungun	4		_	_	48	3		6			59	3			15								_				0	132	6	0 138
30.	Kerasaan	Simalungun	5	1			16	3	_	1			10	2			11 1						1						0	44	7	0 51
31.	Javacolonisasi/Purbogondo	Simalungun	2		_	_		13	5					25	2		13 14			4					_				0	19	52	7 78
32.	Naga Sompah	Simalungun	7				3	2		11			25	5		.,	5			2			1		1	2			0	56	7	0 63
35.	Risma Duma	Dairi	11	. 1	1	1	1		1	1	1	1		NO S	ystem p	rovidec	1			2				1	1	1 1	1		0	0		0 0
25	Darit Lompatan	Karo		۱ د	+	-		5			7		1	12			0			2	7			$\left - \right $	-		1		0	14	44	0 10
26	Parit Lompaten	Kalo Dali Sardana		0	2	-		1			/			12			9				/				-				0	0	40	2 2
30.	Namu Pamba	Deli Serdang		1	2		-	22			1			15			20				4			1	-				0	0	65	0 65
28	Sai Balutu	Deli Serdang		1			-	23			1			15			20				4			1	-				0	0	1	0 1
30	Langau	Deli Serdang		1		-					1																		0	0	2	0 2
40	Medan Krio	Deli Serdang		5	-	-		17						5			13										2		0	0	42	0 42
41	Rantau Panjang	Deli Serdang		1				.,						5			1										-		0	0	2	0 2
42	Pekan Kamis	Deli Serdang	1														1			2									0	4	0	0 4
43	Secanggang	Langkat	1														8			1						5			0	15	0	0 15
44.	Paya Lobang	Deli Serdan/Tebing Tinggi				1					1			1			3								1		2		0	3	2	0 5
45.	Namu Sira-sira Kiri	Langkat/Binjai								9			19				3			4						6			0	41	0	0 41
46.	Namu Sira-sira Kanan	Langkat/Binjai	1			1				-	1		3	1			2			1					1				0	7	0	0 7
47.	Bah Korah II	Simalungun/Siantar	3		1		26	5			1		73	2			13			5	1		5			10	1		0	135	9	0 144
48.	Sijambi	Asahan/Tanjung Balai	2		1		4			4							1									5			0	16	0	0 16
49.	Rambung Mera	P. Siantar/Simalungun	2		1		6	15		4			24	3			19			2						1			0	58	18	0 76
50.	Paya Sordang	Tapanuli Sel/Mandailing Natal	2		2		5	22		50		2	16				31			6						17			0	127	22	4 153
	Total		0 57	7 43	13	0	162	144	10	0 170	47	4	0 268	83	2	0	155 71	0	0	35	23	2	0 7	1 0	0	53	20	2	0	907	432	33 1,372

Remarks: T : Technical ST : Semi Technical NT : Non Technical

 Condition of Facility:
 6
 37
 43
 13
 6
 142
 144

 Condition of Facility:
 A : Function well/no rehabilitation is needed.
 B : Partially deteriorated, minor rehabilitation is needed.
 C : Not functioning well and affecting the operation, large scale of rehabilitation is needed.
 D : Serious condition for operation, replace and reconstruction is needed.

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Table A-4.2.5 Existing Condition of Irrigation Scheme : 2-2. Canals and Related Structures, Related Structures (2/2): North Sumatra

Secondary Canal

			Diversion (Moin hody only) Off take Day Culvert Desa/Obuto													Condition of Facility																	
		Divis	Diver	rsion (M	ain body	only)		Off-t	ake		Box C	ulvert			Drop/0	Chute		Bric	lge		Spil	lway		Cross	Drain			Others	:				
N	5. Irrigation Scheme	District		(Bangur	nan Bagi)		(Bagi S	adan)	(Gorong	Goron	n)		(Terii	unan)		(Jemb	atan)		(Peli	mnah)	(Got	rong-go	rong Sil	lang)		(Lain-la	in)		Т	ətal	Total
			Δ	B	C	, D	Δ	B	C D	Δ.	B	C	D	Δ	B	C D	Δ	B	C D	Δ	B		Δ	B	C	D	Δ	B	C D	Δ	в	C	D
1	Gido Sebua	Nias			11	D		5	C D		4	2	D		9	C D	~	Б	0 0	1	2	C D		D	C	D	~		1	0	15	14	0 29
	Batang Gadis	Mandaling Natal		4				126				133			141			20			-		1							0	201	133	0 424
	Batang Bung	Tananuli Selatan		-				120	38			83			141	9		20	33			5							70	0	2)1	238	0 238
-	Blk Sitongkon/Nana Suron	Tapanuli Selatan							6 2			2							55			2							1	0	0	14	3 17
4	Siborna	Tapanuli Selatan							0 5			2										2							-	0	0	2	0 3
	Sigili Tukka	Tapanuli Tangah			5	6						4	2						2							1			1	0	0	11	10 21
	Padiri Lonian	Tapanuli Tangah			12	0						2	2			0			2		2				6	1 Q			1 1	0	2	21	11 44
	Pandurungan	Tapanuli Tangah			10							2	2			7 10					2				0	0			1 2	0		27	21 49
	Sibiong	Tapanuli Tangah		1	19					1						No system r	rovided	l		1	1	I	1						1 2	0	0		0 0
1	Aak Silang	Tapanuli Utara		1	1	2		1		1		1				NO System j	lovided	1		1	1	1	1						1	0	1	1	2 4
1	Semille	Tapanuli Utara	-			2						2						1											1	0	1	2	0 2
1	Dermishen Huteneung	Tapanuli Utara	-		2							2				21		4											1	0	0	20	0 3
1	2. Faimanan Hutapaung	Tapanuli Utara	-		2	2						/				21		4				1								0	4		2 2
1	5. Siliano	Taba Samasir	-		2	2						1				2 4		2				1			2					0	2	7	4 12
1	Ack Mandos I	Toba Samosir			2							1			2	2 4		2					-		2					0	2	10	4 13
1	Derbargatasi II	Toba Samosir		1	2			22	2		2	2			2	14		1					-					5		0	20	18	0 21
1	Devlote an	Labunan Batu		1				23	2		20				1			0					-					3		0	39	2	0 41
1	Perkotaan	Asanan		2				57	10 2		20				2			~					-	-				~		0	81	10	0 81
1	S. Sungai Balai	Asahan						-	10 3		2							5					-	5				5	2 1	0	15	10	3 28
1	7. Panca Arga	Asahan				14		/	3		2	-				2			II				-						3 1	0	9	4	5 18
2	J. Serbangan	Asanan	-			14			2			5	6			2													2 1	0	0	9	23 32
2	Silau Bonto	Asahan																												0	0	0	0 0
2	2. Sungai Silau	Asahan			15				1			2				1			15 11										2	0	0	34	13 47
2	5. Padang Mahondang	Asahan							9			I				1			5										2	0	0	16	2 18
2	I. Simujur	Asahan									4.0								2		10								1	0	0	0	3 3
2	p. Purwodadi	Asahan		6	17			27			18				11	10					13							1		0	76	17	0 93
>	b. Pentara	Simalungun						4			1				2	10														0	7	10	0 17
H^2	Simantin Pane Dame	Simalungun													1.68			0												0	0	0	0 0
1 2	 Panambean / Panet Tongah BK. 	Simalungun		2	1			31	8		8	2			167	2		8			3							15	1	0	234	14	0 248
$\frac{1}{5}$	 Raja Hombang / T. Mangaraja 	Simalungun						29			4				42	3		11										3		0	89	3	0 92
- 3). Kerasaan	Simalungun		4					65 3							25			1											0	4	91	3 98
3	Javacolonisasi/Purbogondo	Simalungun							4 1			4.0				7			4										2	0	0	17	1 18
3	2. Naga Sompah	Simalungun	-	4					3 1			10			26				2				1		4				4	0	30	23	1 54
3	 Risma Duma 	Dairi			1 -				- 1	1	1					No system p	rovided	1		1	1	1 1	n			[0	0	0	0 0
3	Lae Ordi	Dairi	-		3				2																					0	0	5	0 5
3	5. Parit Lompaten	Karo	-		13											1														0	0	14	0 14
3	5. Bandar Sidoras	Deli Serdang	_			3			26																				6	0	0	0	35 35
3	7. Namu Rambe	Deli Serdang	_						10 13																					0	0	10	13 23
3	3. Sei Belutu	Deli Serdang	_		2				18																					0	0	20	0 20
3	 Langau 	Deli Serdang							4										5											0	0	9	0 9
4	 Medan Krio 	Deli Serdang							19							20			16										3	0	0	58	0 58
4	. Rantau Panjang	Deli Serdang							2																					0	0	2	0 2
4	 Pekan Kamis 	Deli Serdang			1			9			6							1			1							1		0	18	1	0 19
4	 Secanggang 	Langkat		1				21							7			22			I									0	51	0	0 51
4	 Paya Lobang 	Deli Serdan/Tebing Tinggi						2	2									7	4		I								2	0	9	8	0 17
4	 Namu Sira-sira Kiri 	Langkat/Binjai		5				26			40				64			4			5							8		0	152	0	0 152
4	 Namu Sira-sira Kanan 	Langkat/Binjai		7				27	2		4	4			202	20		21			I							27	1	0	288	27	0 315
4	7. Bah Korah II	Simalungun/Siantar						7	1		7				33	6		8			3									0	58	7	0 65
4	 Sijambi 	Asahan/Tanjung Balai		6	4			2			4							3			I							11	1	0	26	5	0 31
4	 Rambung Mera 	P. Siantar/Simalungun		3				10			3				20	5		6				1						1		0	43	6	0 49
5	 Paya Sordang 	Tapanuli Sel/Mandailing Natal		2				65	16		31		2					11			2							6		0	117	0	18 135
	Total		0	47	110	27	0	473	206 71	0	155	266	12	0	729	165 23	0	141	88 14	0	31	8 1	0	5	12	9	0	83	97 17	0	1,664	952	174 2,790

Remarks: T : Technical ST : Semi Technical NT : Non Technical

 Condition of Facility:
 Condition of Facility:

 A : Function well/hor rehabilitation is needed.

 B : Partially deteriorated, minor rehabilitation is needed.

 C : Not functioning well and affecting the operation, large scale of rehabilitation is needed.

 D : Serious condition for operation, replace and reconstruction is needed.

					Age of	Den	sity of C	anal	Lined C	Canal Pro	vision	Inspectio	n Road F	rovision	Structur	e Provisio	n Ratio
			Technical	Registered	the		(m/ha)			Ratio		-1	Ratio			(m/nos)	
No.	Irrigation Scheme	District	Level 1)	Area (ha)	Facilities		(III/IIII)			Ratio			Ratio			(11/1105)	
			Level	/ fied (fid)	(vears)	MC	SC	Total	MC	SC	Total	MC	SC	Total	MC	SC	Total
1	Gido Sebua	Nias	Т	1 258	11	3.1	13.1	16.2	100%	30%	43%	0%	0%	0%	246	400	357
2.	Batang Gadis	Mandaling Natal	Ť	6.628	11	4.0	7.9	11.8	96%	95%	96%	100%	80%	87%	332	103	135
3.	Batang Ilung	Tapanuli Selatan	Т	4,194	11	1.8	15.1	16.9	100%	91%	92%	50%	60%	59%	193	225	221
4.	Blk Sitongkon/Napa Suron	Tapanuli Selatan	ST	1.012	27	10.9	16.5	27.4	0%	0%	0%	0%	0%	0%	302	486	392
5.	Siborna	Tapanuli Selatan	ST	1,000	19	7.8	5.4	13.2	0%	0%	0%	0%	0%	0%	464	1.710	661
6.	Siaili Tukka	Tapanuli Tengah	Т	1,057	17	3.0	10.7	13.7	0%	73%	57%	80%	80%	80%	357	306	316
7.	Badiri Lopian	Tapanuli Tengah	Т	1,283	14	2.2	7.8	10.0	18%	20%	19%	0%	5%	4%	248	160	173
8.	Pandurungan	Tapanuli Tengah	Т	1,769	19	1.7	15.2	16.9	9%	8%	8%	0%	0%	0%	324	423	410
9.	Sihiong	Tapanuli Tengah	NT	2,000	19	0.4	0.8	1.2	33%	17%	22%	0%	0%	0%	1	No structure	
10.	Aek Silang	Tapanuli Utara	ST	1,500	13	1.0	3.0	4.0	100%	0%	25%	60%	60%	60%	750	1,125	1,000
11.	Sarulla	Tapanuli Utara	ST	1,692	28	0.6	1.7	2.2	22%	30%	28%	0%	0%	0%	311	940	626
12.	Parmiahan Hutapaung	Tapanuli Utara	ST	1,000	10	4.4	8.5	12.9	64%	42%	50%	80%	50%	60%	315	249	268
13.	Sinamo	Tapanuli Utara	ST	1,000	34	0.9	8.2	9.1	61%	0%	6%	100%	100%	100%	206	2.540	1.206
14.	Aek Mandos I	Toba Samosir	ST	1.060	10	0.3	4.7	5.0	100%	0%	7%	50%	60%	59%	180	380	354
15	Simangatasi II	Toba Samosir	Т	1.515	11	3.1	2.5	5.6	100%	100%	100%	10%	10%	10%	2 329	179	366
16	Bulung Ihit	Labuhan Batu	Ť	5 000	5	4.1	19.6	23.7	8%	11%	10%	80%	90%	88%	552	648	629
17.	Perkotaan	Asahan	Т	3,457	14	5.7	11.7	17.4	13%	19%	17%	100%	100%	100%	445	499	480
18	Sungai Balai	Asahan	ST	1.185	5	3.0	73	10.3	61%	0%	18%	0%	0%	0%	477	295	332
19	Panca Arga	Asahan	Ť	2 500	10	0.1	3.0	3.1	100%	29%	30%	0%	0%	0%	52	417	365
20.	Serbangan	Asahan	Ť	2,333	10	3.3	8.2	11.5	31%	20%	23%	100%	100%	100%	399	522	480
21	Silau Bonto	Asahan	NT	3 231	10		No Canal			No canal			No canal			No canal	
22	Sungai Silau	Asahan	ST	1,315	32	37	36.5	40.2	0%	0%	0%	0%	0%	0%	550	351	363
23	Padang Mahondang	Asahan	ST	3 231	22	1.2	32	44	0%	0%	0%	100%	100%	100%	596	513	533
24	Simulur	Asahan	ST	2,560	18	11	7.8	9.0	0%	0%	0%	80%	100%	97%	575	5 2 3 3	2 571
25	Purwodadi	Asahan	T	1 635	14	79	7.6	15.5	0%	0%	0%	100%	100%	100%	236	133	171
26	Pentara	Simalungun	ST	1 034	12	36.1	24.2	60.3	0%	0%	0%	30%	0%	18%	1 346	424	719
27	Simantin Pane Dame	Simalungun	NT	1,000	14	2.0	0.0	2.0	0%	No canal	0%	100%	No canal	100%	667	No canal	667
28	Panambean / Panet Tongah BK	Simalungun	Т	1 723	12	3.7	8.6	12.3	35%	21%	25%	70%	15%	32%	122	59	70
29	Raia Hombang / T. Mangaraia	Simalungun	Ť	2 045	9	11.0	5.3	16.4	36%	0%	24%	50%	0%	34%	161	117	144
30	Kerasaan	Simalungun	Ť	5,000	15	73	12.8	20.1	24%	18%	20%	100%	100%	100%	594	542	560
31	Iavacolonisasi/Purbogondo	Simalungun	Ť	1 030	14	11.1	4.0	15.1	51%	15%	42%	100%	0%	74%	145	225	160
32	Naga Sompah	Simalungun	Ť	1 360	16	13.2	9.6	22.8	60%	31%	48%	50%	0%	29%	213	180	198
33	Risma Duma	Dairi	ST	1,500	21	0.0	0.0	0.0	0070	No canal	4070	5070	No canal	2770	215	No canal	170
34	Lae Ordi	Dairi	ST	1 200	14	10.0	5.0	15.0	25%	0%	17%	100%	100%	100%	750	1 200	857
35	Parit Lompaten	Karo	ST	1 242	20	9.5	11.7	21.2	15%	2%	8%	100%	100%	100%	256	1,037	438
36	Bandar Sidoras	Deli Serdang	ST	3 457	18	0.4	10.8	11.2	35%	25%	25%	0%	0%	0%	463	1,070	1 022
37	Namu Rambe	Deli Serdang	т	1.036	37	5.6	10.0	16.2	38%	20/0	14%	0%	0%	0%	89	480	101
38	Sei Belutu	Deli Serdang	st	5 082	40	0.0	5.1	5.1	40%	35%	35%	0%	0%	0%	250	1 288	1 238
39	I angau	Deli Serdang	ST	2 000	24	1.0	1.6	2.6	-0%	11%	7%	0%	0%	0%	950	344	455
40	Medan Krio	Deli Serdang	т	3,016	25	0.9	7.8	87	100%	30/	13%	0%	0%	0%	65	402	261
41	Rantau Panjang	Deli Serdang	sT	2 300	33	0.9	0.0	0.0	10070	No canal	1570	070	No canal	070	05	No canal	201
42	Pekan Kamie	Deli Serdang	ST	1,100	33	0.0	5.6	6.0	0%	0%	0%	0%	0%	0%	100	326	287
43	Seconggong	Langkat	ST	1,100	18	8.9	10.0	18.9	12%	2%	6%	0%	0%	0%	827	274	400
44	Pava Lobang	Deli Serdan/Tehing Tinggi	ST	1,400	22	3.1	3.5	6.6	31%	270 Q%	19%	0%	0%	0%	980	318	468
45	Namu Sira-sira Kiri	Langkat/Binjaj	л Т	2 250	24	5.1	21.4	26.6	88%	66%	70%	100%	100%	100%	171	101	186
46	Namu Sira-sira Kanan	Langkat/Binjai	T	4,100	24	0.7	12.0	12.6	4.494	66%	64%	100%	80%	810/	286	150	155
40.	Rah Korah II	Simalungun/Siantar	T	1 995	12	9.2	2.5	12.0	54%	21%	47%	70%	0%	55%	110	150	96
48	Sijambi	Acaban/Tanjung Balai	T	1,013	10	1.1	2.5	10.0	0%	0%	-1/70	0%	0%	0%	70	200	216
40.	Bambung Mora	P Signtar/Simplungun	T	1,015	10	1.1	0.9	10.0	0%	110/	20%	0%	100%	17%	160	290	117
49. 50	Pava Sordang	r . Stattat/Stittatullgull Tananuli Sel/Mandailing Notal	T	940 1 250	10	12.9	2.0	87	45%	300/	270 /10/-	60%	100%	1 / 70 270/-	100	182	131
50.	Total	rapanun sei/manuaning Natai	1	107 183	11	5.0	5.1	0.7	+370	37/0	+1/0	0070	1070	21/0	85	103	151
	Average of the province			2.144	18	3.5	7.8	11.3	36%	32%	33%	63%	51%	55%	234	253	246
	Itemized Total		T : 25	-, ,					20,0	22.0			22,0				= . 5
			ST : 22														
			NIT 2														

Table A-4.2.6 Irrigation Facility Provision Ratio of Present Irrigation System: North Sumatra

Note: 1): T: Technical, ST: Semi-technical, NT: Non-technical MC: Main Canal, SC: Secondary Canal

Source: Inventory Survey Works for the Study on Comprehensive Recovery Program of Irrigation Agriculture

Table A-4.2.7 Problems and Constraints of Irrigation Scheme : 2. Canals and Related Structures & 3. Terminal Facility and On Farm: North Sumatra

Proprint Distribution	Γ			General Lined and Earth Canal Related regulating structure Related conveyance structure Related crossing structure O & M Condition/Problem																														
Partial Description <					Lined	and Eas	th Canal	Palatad ram	lating at	ruotur	Dal	atad aa		a structu	IFO	Related	d crossing	Protection	0.8.1	r	Condition/Pro	oblem												
Image: Propression of the pr						0	eneral			Linea	and Ea	th Canal	Related regu	lating st	ructure	e Kela	ated co	iveyand	e structu	Ire	stru	icture	structure	Uan		_							B	_
All All <td></td> <td>No.</td> <td>Irrigation Scheme</td> <td>District</td> <td>ion or obstruction of</td> <td>om canal</td> <td>î canal</td> <td>road along canal</td> <td>¢M problems</td> <td>ower strength of lined artial damage on lined</td> <td>om lined canal</td> <td>of lining toward inside on maintenancve of</td> <td>tion of regulating 1 canal or damage (breakdown) ng structure on canal</td> <td>eration problem on structure on canal</td> <td>n of discharge</td> <td>deflection on of aqueduct</td> <td>eakout on ure of aqueduct</td> <td>om barrel of siphon</td> <td>t covering for siphon w river bed</td> <td>f barrel of siphon</td> <td>f road crossing ulvert)</td> <td>of foundation of bridge eakout of ure of brigde</td> <td>f barrel of cross drain</td> <td>on O & M due to blem on Proper water</td> <td>/discharge measurement ioning</td> <td>riorated, but ; in a satisfactory range ming well and/or te downstream flow</td> <td>rdition for operation, I reconstruction is able</td> <td>Proble</td> <td>ms and C</td> <td>Constrai</td> <td>nts: Sum</td> <td>mary</td> <td>Condition of Canal Syste</td> <td>nal Facility and On Farm</td>		No.	Irrigation Scheme	District	ion or obstruction of	om canal	î canal	road along canal	¢M problems	ower strength of lined artial damage on lined	om lined canal	of lining toward inside on maintenancve of	tion of regulating 1 canal or damage (breakdown) ng structure on canal	eration problem on structure on canal	n of discharge	deflection on of aqueduct	eakout on ure of aqueduct	om barrel of siphon	t covering for siphon w river bed	f barrel of siphon	f road crossing ulvert)	of foundation of bridge eakout of ure of brigde	f barrel of cross drain	on O & M due to blem on Proper water	/discharge measurement ioning	riorated, but ; in a satisfactory range ming well and/or te downstream flow	rdition for operation, I reconstruction is able	Proble	ms and C	Constrai	nts: Sum	mary	Condition of Canal Syste	nal Facility and On Farm
Alter al alter al alter alte					C-1 Sedimentat water flow	C-2 Leakage fr	C-3 Collapse of	C-4 Inspection	C-5 General O&	C-6 Overage, L canal C-7 Cracks of p	C-8 Leakage fro	C-9 Deflection of canal C- Difficulty c 10 earth canal	C- Lower func 11 structure or C- Settlement 12 of regulati	C- Physical op 13 regulating s	C- No function	C- Settlement/ 15 foundation	C- Damage/br 16 superstruct	C- 17 Leakage fro	C- Insufficient 18 under belov	C- Clogging o	C- Clogging o 20 (box/pipe c C-	21 Settlement C- Damage/br 22 superstruct	C- 23 Clogging o	C- Difficulty c 24 facility pro C- Difficulty c	25 distribution A Fully funct	B Partly deter functioning C Not functio	D replace and needed N.A Not Applic						Overall	Termi
TT-T2T TT	Ē	1.	Gido Sebua	Nias	С	В	Α	D	С	C B	В	C C	C B	В	С	С	С	N.A.	N.A. 1	N.A.	B N	I.A. N.A.	C	С	2	1 6 12	1 5	i 1	4	24			D	С
Yangang Paragram P		2.	Batang Gadis	Mandaling Natal	В	В	В	В	В	B B	В	C B	B B	В	В	В	В	В	В	В	В	B B	N.A.	В	В	0 23 1	0 1	. 9					В	С
NT-21 Number base Teach State C C O O O O <td></td> <td>3.</td> <td>Batang Ilung</td> <td>Tapanuli Selatan</td> <td>В</td> <td>В</td> <td>С</td> <td>С</td> <td>С</td> <td>C C</td> <td>С</td> <td>C C</td> <td>B B</td> <td>В</td> <td>В</td> <td>В</td> <td>В</td> <td>В</td> <td>В</td> <td>В</td> <td>В</td> <td>B B</td> <td>С</td> <td>В</td> <td>C</td> <td>0 15 10</td> <td>0 0</td> <td>) 3</td> <td>10</td> <td>25</td> <td></td> <td></td> <td>С</td> <td>С</td>		3.	Batang Ilung	Tapanuli Selatan	В	В	С	С	С	C C	С	C C	B B	В	В	В	В	В	В	В	В	B B	С	В	C	0 15 10	0 0) 3	10	25			С	С
TT-21 T-2		4.	Blk Sitongkon/Napa Suron	Tapanuli Selatan	С	С	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	С	C C	N.A.	D	D	0 0 5	10 10) 3	5	10	11	25	D	D
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TT-2T T-2T T-2T T-2T T-2T T-2T T-2 T-2 T	_	6.	Siaili Tukka	Tapanuli Tengah	D	D	D	D	D	D D	D	D D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	N.A. N	I.A. N.A.	N.A.	D	D	0 0 0	16 9	1	6	10	11	24	D	С
All All <td>_</td> <td>7.</td> <td>Badiri Lopian</td> <td>Tapanuli Tengah</td> <td>С</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D D</td> <td>D</td> <td>D D</td> <td>D D</td> <td>D</td> <td>D</td> <td>N.A.</td> <td>N.A.</td> <td>N.A.</td> <td>N.A. 1</td> <td>N.A.</td> <td>D</td> <td>D D</td> <td>N.A.</td> <td>D</td> <td>D</td> <td>0 0 1</td> <td>18 6</td> <td>5 3</td> <td>4</td> <td>10</td> <td>11</td> <td>24</td> <td>D</td> <td>С</td>	_	7.	Badiri Lopian	Tapanuli Tengah	С	D	D	D	D	D D	D	D D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	D	D D	N.A.	D	D	0 0 1	18 6	5 3	4	10	11	24	D	С
T-T-21 Name Impain Impain D		8.	Pandurungan	Tapanuli Tengah	D	D	D	D	D	D D	D	D D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	D	D D	N.A.	D)	0 0 0	19 6	5 1	4	8	10	24	D	C
Ta analysis in analysis in a second s	-	9.	Sihiong	Tapanuli Tengah	D	D	D	D	D	D D	D	D D	N.A. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. N	N.A. N.A.	N.A.	D)	0 0 0	12 13		5	10	24	25	D	D
TT - T T T T T T T T T T T T T T T T T	-	10.	Aek Silang	Tapanuli Utara	D	D	D	D	D	D D	D	D D	N.A. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. I	N.A.	N.A. N	N.A. N.A.	N.A.	D	2	0 0 0	12 13		4	5	10	24	C	D
YT 2 To sume nume nume nume nume nume nume nume n	-	11.	Saruila Bermishan Hutanaung	Tapanuli Utara	D	D	D	D	D	D D	D	D D	D D	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. I	N.A.	D. D.	D D	N.A.	D)	0 0 0	12 13		4	10	10	24	C	D
Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	12.	Sinamo	Tapanuli Utara	D	D	D	C	D	D D	D	D D	NA NA	NA	NA	N.A.	N.A.	N.A.	NA 1	NA.	NA N	JA NA	N.A.	D	<i>,</i>		11 13	1	3	10	10	24	C	D
YT-27 T-27 T-10 Single II. In Sing	-	14	Aek Mandos I	Toba Samosir	D	D	D	D	D	D D	D	D D	NA NA	NA.	N A	N A	N A	NA.	NA I	N A	NA N	JA NA	N.A.	D	2	0 0 0	12 13	1	4	5	10	24	B	D
Total Landan C D D D C C C	-	15	Simangatasi II	Toba Samosir	D	C	C	C	D	C C	C	C NA	C C	C	C	N A	NA	N.A.	NA 1	N A	NA N	JA NA	N A	D	2	0 0 11	4 10) 1	5	24	25	21	C	C
The Number Aubar C	-	16.	Bulung Ihit	Labuhan Batu	С	D	D	D	D	C C	С	C D	D D	D	D	С	С	С	С	С	С	C C	N.A.	D	D	0 0 13	11 1	4	5	10	11	24	D	С
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PT-21 PT-21 Normal Ashan C C D C D C <pc c<="" p=""> C C C C <pc <="" c<="" td=""><td></td><td>18.</td><td>Sungai Balai</td><td>Asahan</td><td>С</td><td>С</td><td>С</td><td>D</td><td>D</td><td>C C</td><td>С</td><td>C D</td><td>N.A. N.A.</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>N.A.</td><td>N.A. 1</td><td>N.A.</td><td>N.A. N</td><td>I.A. N.A.</td><td>N.A.</td><td>D</td><td>C</td><td>0 0 7</td><td>5 13</td><td>4</td><td>5</td><td>10</td><td>11</td><td>24</td><td>D</td><td>С</td></pc></pc>		18.	Sungai Balai	Asahan	С	С	С	D	D	C C	С	C D	N.A. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. 1	N.A.	N.A. N	I.A. N.A.	N.A.	D	C	0 0 7	5 13	4	5	10	11	24	D	С
1 2 1 3 Schungen Auden C C C C C C D <	\geq	19.	Panca Arga	Asahan	С	D	С	D	С	C C	С	C D	C C	С	С	С	С	С	С	С	N.A.	C C	N.A.	D	D	0 0 18	5 2	2 2	4	10	24		D	D
12 Singlemon Andom 0	Ĥ.	20.	Serbangan	Asahan	С	С	D	С	С	B C	С	C D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	С	C C	N.A.	С	2	0 1 12	6 6	5 3	10	11	24		С	С
21 Single Shim Anhan D	- î -	21.	Silau Bonto	Asahan						r r			Nos	system	1	1				T			1	D	D	0 0 0	2 0)	No	t function	1		D	D
T 2. Made Malonding Aslam D	N	22.	Sungai Silau	Asahan	D	D	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	D	D D	N.A.	D)	0 0 0	15 10) 1	5	10	11	24	D	D
1 Number	-	23.	Padang Mahondang	Asahan	D	D	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	N.A.	N.A.	N.A.	N.A.	N.A.	D	D D	N.A.	D)	0 0 0	15 10) 1	5	10	11	24	D	D
2 Nome Nome No No <td>-</td> <td>24.</td> <td>Simujur Dumuu da di</td> <td>Asanan</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>N.A. N.A.</td> <td>N.A.</td> <td>N.A. D</td> <td>D D</td> <td>D</td> <td>D</td> <td>N.A.</td> <td>N.A.</td> <td>N.A.</td> <td>N.A.</td> <td>N.A.</td> <td>N.A. P</td> <td>N.A. N.A.</td> <td>N.A.</td> <td>D</td> <td>2</td> <td>0 0 0</td> <td>12 13</td> <td></td> <td>5</td> <td>10</td> <td>11</td> <td>24</td> <td>D</td> <td>D</td>	-	24.	Simujur Dumuu da di	Asanan	D	D	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. P	N.A. N.A.	N.A.	D	2	0 0 0	12 13		5	10	11	24	D	D
2 Nummine hear Simulary Monormal C <th< td=""><td>-</td><td>25.</td><td>Purwodadi</td><td>Simalungun</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>N.A. N.A.</td><td>N.A.</td><td>N.A. D</td><td>D D</td><td>D</td><td>D</td><td>D.A.</td><td>D.A.</td><td>D.A.</td><td>D. D.</td><td>D.A.</td><td>D NA N</td><td></td><td>N.A.</td><td>D</td><td>2</td><td></td><td>17 9</td><td></td><td>5</td><td>10</td><td>11</td><td>24</td><td>D</td><td>D</td></th<>	-	25.	Purwodadi	Simalungun	D	D	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	D.A.	D.A.	D.A.	D. D.	D.A.	D NA N		N.A.	D	2		17 9		5	10	11	24	D	D
28 Parambene / Paramane / Param	-	20.	Simantin Pane Dame	Simalungun	D	D	D	D	D	D D	D.A.	D D	D D	D	D	N A	NA	NA	NA 1	ΝΔ	NA N	JA NA	N.A.	D	2		16 9	1	5	10	11	24	D	D
28 Righ Hombwarg/T. Margargia Simulangan C	-	28	Panambean / Panet Tongah BK	Simalungun	C	C	C	C	D	C C	C	C D	C C	C	C	C	C	C	C	C	C	C C	N A	C	2	0 0 22	2 1	5	10	24		21	C	C
30 Kersaan Smalungan C	F	29	Raia Hombang / T. Mangaraja	Simalungun	C	C	C	C	C	C C	C	C D	C C	C	C	C	C	C	C	C	C	C C	N A	C	2	0 0 23	1 1	10	24	21	-		C	D
31 JavacolonicallyInhogond Smalungan B B B C C B C C B B C D <	-	30.	Kerasaan	Simalungun	Č	č	Č	Č	Č	C C	Č	C D	C C	č	Č	Č	Č	Č	Č	Č	Č	C C	C	č	Ĉ	0 0 24	1 0	10	24				č	D
32. Nga Songsh Simalungan C C B C D </td <td>F</td> <td>31.</td> <td>Javacolonisasi/Purbogondo</td> <td>Simalungun</td> <td>В</td> <td>В</td> <td>В</td> <td>D</td> <td>С</td> <td>B B</td> <td>В</td> <td>C D</td> <td>C C</td> <td>С</td> <td>С</td> <td>N.A.</td> <td>N.A.</td> <td>N.A.</td> <td>N.A. 1</td> <td>N.A.</td> <td>С</td> <td>B C</td> <td>N.A.</td> <td>В</td> <td>0</td> <td>0 8 9</td> <td>2 6</td> <td>6 4</td> <td>10</td> <td></td> <td></td> <td></td> <td>С</td> <td>С</td>	F	31.	Javacolonisasi/Purbogondo	Simalungun	В	В	В	D	С	B B	В	C D	C C	С	С	N.A.	N.A.	N.A.	N.A. 1	N.A.	С	B C	N.A.	В	0	0 8 9	2 6	6 4	10				С	С
31. Risma Dunin D <		32.	Naga Sompah	Simalungun	С	В	С	D	С	B C	В	C D	B B	С	С	С	С	N.A.	N.A. 1	N.A.	В	B B	В	С	0	0 9 11	2 3	4	10				С	С
34. Lac 0rd Dari D </td <td>Ļ</td> <td>33.</td> <td>Risma Duma</td> <td>Dairi</td> <td></td> <td>- 1</td> <td>-</td> <td></td> <td>_</td> <td></td> <td>-</td> <td>1 - 1</td> <td>No function,</td> <td>totally dat</td> <td>maged</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td>- 1</td> <td>- 1 -</td> <td></td> <td>D</td> <td>D</td> <td>0 0 0</td> <td>2 0</td> <td></td> <td>No</td> <td>t function</td> <td>1</td> <td></td> <td>D</td> <td>D</td>	Ļ	33.	Risma Duma	Dairi		- 1	-		_		-	1 - 1	No function,	totally dat	maged	1	1				- 1	- 1 -		D	D	0 0 0	2 0		No	t function	1		D	D
15.1 rarti org v	F	34.	Lae Ordi	Dairi	D	D	D	D	D	D D	D	D D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	D	D D	N.A.	D)	0 0 0	19 6	1	5	10	11	24	C	D
j-v. bankas overase b-s b	⊢	35.	Parit Lompaten	Karo Dali Sardang	D	D	D	D	D	D D	D	D D	D D	D	D	D	D	D	D	D	D	D D	N.A.	D		0 0 0	24 1	1	5	10		24	D	D
Jame	ŀ	30.	Namu Rambe	Deli Serdang	D	C	C	D	D		<u>с</u>			D	D	NA	NA	NA	NA 1	NA	C		N.A.	C	~	0 0 12	7 5		3	10	10	13	D	D
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	38	Sei Belutu	Deli Serdang	D	D	D	D	p	D D	n			D	D	NA.	N A	NA.	NA 1	N A	NAN		N A	D	Ď	0 0 0	16 9	. 1	-+	5	10	24	D	P
40. Medan Krio Deli Serdang C D <td>-</td> <td>39</td> <td>Langau</td> <td>Deli Serdang</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D D</td> <td>D</td> <td>D D</td> <td>D D</td> <td>D</td> <td>D</td> <td>N A</td> <td>NA</td> <td>N.A.</td> <td>NA 1</td> <td>N A</td> <td>NA N</td> <td>JA NA</td> <td>N A</td> <td>D</td> <td>2</td> <td>0 0 0</td> <td>16 9</td> <td>) 1</td> <td>4</td> <td>5</td> <td>10</td> <td>24</td> <td>D</td> <td>D</td>	-	39	Langau	Deli Serdang	D	D	D	D	D	D D	D	D D	D D	D	D	N A	NA	N.A.	NA 1	N A	NA N	JA NA	N A	D	2	0 0 0	16 9) 1	4	5	10	24	D	D
41 Rantu Pagiang Deli Serdang D D D D N NA N		40.	Medan Krio	Deli Serdang	C	C	C	D	C	C C	C	C C	C C	C	C	N.A.	N.A.	N.A.	N.A. 1	N.A.	C	C C	N.A.	C)	0 0 17	2 6	6 4	25				C	D
42. Pekan Kamis Deli Serdang D D D D N.A	-	41.	Rantau Panjang	Deli Serdang	D	D	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	D	D D	N.A.	D	D	0 0 0	15 10) 1	5	10	11	24	D	D
43. Secanggang Langkat D	F	42.	Pekan Kamis	Deli Serdang	D	D	D	D	D	N.A. N.A.	N.A.	N.A. D	D D	D	D	N.A.	N.A.	N.A.	N.A. 1	N.A.	D	D D	N.A.	D	D	0 0 0	15 10) 1	5	10	11	24	D	D
44 Paya Lobarg Deli Serdan/Tebing Tinggi D		43.	Secanggang	Langkat	D	D	D	D	D	D D	D	D D	N.A. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. 1	N.A.	N.A. N	I.A. N.A.	N.A.	D	D	0 0 0	12 13	1	4	5	10	24	D	D
45. Namus Ginavaina Kiri Langkat/Binjai C		44.	Paya Lobang	Deli Serdan/Tebing Tinggi	D	D	D	D	D	D D	D	D D	N.A. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. 1	N.A.	С	C C	N.A.	D	C	0 0 3	12 10) 1	4	5	10	24	D	D
46 Namus Ixansama Kanan Langkar/Minja C		45.	Namu Sira-sira Kiri	Langkat/Binjai	С	С	С	В	В	B B	С	C D	B B	В	В	В	В	В	В	В	В	B B	N.A.	В	0	0 17 6	1 1	1	10	25			С	D
47. Bah Korah II SimalgeuroSitantar C	Ļ	46.	Namu Sira-sira Kanan	Langkat/Binjai	С	С	С	В	В	B B	С	C D	B B	В	В	В	В	В	В	В	В	B B	N.A.	В	2	0 17 6	1 1	1	10	25			С	С
+8. Symmit Asamari ranjung basin C <th< td=""><td>F</td><td>47.</td><td>Bah Korah II</td><td>Simalungun/Siantar</td><td>C</td><td>C</td><td>C</td><td>B</td><td>B</td><td>B B</td><td>C</td><td>C D</td><td>B B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>В</td><td>В</td><td>B</td><td>B B</td><td>N.A.</td><td>B</td><td></td><td>0 17 6</td><td>1 1</td><td>1</td><td>10</td><td>25</td><td></td><td></td><td>C</td><td>C</td></th<>	F	47.	Bah Korah II	Simalungun/Siantar	C	C	C	B	B	B B	C	C D	B B	B	B	B	B	B	В	В	B	B B	N.A.	B		0 17 6	1 1	1	10	25			C	C
+7. National synthetic and synthetic andin and synthetic and synthetic and synthetic and synthet		48.	Sijambi Rombung More	Asanan/Tanjung Balai	C	C	C	C	C	N.A. N.A.	N.A.	N.A. D	D D	D	D	D	D	D	D	D	D	D D	N.A.	D		0 0 5	15 5	10	11	24			D	<u>с</u> р
Image: space series of the space se	⊢	49. 50	Ramoung Mera Paya Sordang	r . Standt/Simatungun Tananuli Sel/Mandailing Natal	C	B	B	D D	с С	C C	IN.A.	C D		0		N A	N A	B	B	B	C	B C	N.A.	C	-	0 6 12	3 3	10	10	24	24		C	C
Remarks: Condition of Facility:	F	50.	Tatal	- apanun bermanuaning Natal	~			2	· ·		L.	C D		Ľ	D	13.A.	13.A.	6		5		- C	13.A.		~	1 119 273	485 326	4	10	14			~	
	I	Remar	:ks:	Condition of Facility:	1		l	1					1 1	1	u		l	L I		I			1			210	100 520					l	A:0	A:0

T : Technical ST : Semi Technical NT : Non Technical

Condution of racinity.
 A : Function well/no rehabilitation is needed.
 B : Partially deteriorated, minor rehabilitation is needed.
 C : Not functioning well and affecting the operation, large scale of rehabilitation is needed.
 D : Serious condition for operation, replace and reconstruction is needed.

B:2 B:1 C:18 C:18 D:30 D:31

Table A-4.2.8 Present Agriculture Conditions in Target Schemes: North Sumatra - 1/3

District	Nias	M. Nat.	Тар	anuli Se	latan		Tapanul	i Tengał	1	Ta	panuli U	tara	T. Uta.	Toba S	Samosir	L.Batu	Asa	ahan
Irrigation Scheme	rido Sebua	atang Gadis	tatang Ilung	ilk Sitongkon/ Japa Suron	iborna	iaili Tukka	adiri Lopian	andurungan	ihiong	tek Silang	arulla	armiahan Iutapaung	inamo	ek Mandos I	imangatasi II	ulung Ihit	erkotaan	ungai Balai
No.	0 1 T	2 T	2 3 T	m Z 4	5 5	8 6 T	8 7 T	6 8 7	9 NT	▼ 10	20 11	12 12	13 07	< 14 ST	15 T	16 T	а. 17 Т	20 18
1. Land Use	1	1	1	51	51	1	1	1	NI	51	51	51	51	51	1	1	1	51
1.1 Potential Area																		
- Irrigated Paddy Field ha	883	5,575	3,546	500	595	255	899	1,034	0	200	1,214	200	100	999	1,514	1,355	3,339	1,130
- Rainfed Paddy Field ha	0	1 003	648	412	355	345	267	300	255	500	479	700	830	0	0	0	107	0
Upland Field ha		1,005	040	412	0	0	207	0	0	800	470	100	0	00	0	0	0	0
Tree Crops Land ha		1,003	648	412			267											
Uncultivated Land ha		6.550			0.50	600				800	478	100		60			2.115	
1 2 Non-potential Area	883	6,5/8	4,194	912	950	600	1,166	1,334	255	1,500	1,692	1,000	930	1,059	1,514	1,355	3,446	1,130
- Rainfed Paddy Field ha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Non-paddy Field ha	0	0	0	0	0	0	0	0	1,745	0	0	0	0	0	0	0	0	0
Upland Field ha									1 221									
Uncultivated Land ha									524									
Total ha	0	0	0	0	0	0	0	0	1,745	0	0	0	0	0	0	0	0	0
1.3 Target Area (1.1 + 1.2) ha	883	6,578	4,194	912	950	600	1,166	1,334	2,000	1,500	1,692	1,000	930	1,059	1,514	1,355	3,446	1,130
1.4 Converted Land 1/ ha 1.5 Registered Area (1.2 ± 1.4) ha	375	50 6.62°	0 4 104	100	50	457	117	435	2 000	1 500	1 602	1 000	70	1 060	1 515	3,645	3 457	1 1 1 2 5
2. Cropping Pattern in Irrigated Area 2/	A	A	ч, 194 А	A A	E 1,000	A	A	A	-	D	A A	D	1,000 D	C 1,000	C	A A	A	A
3. Cropped Area/Cropping Intensity																		
3.1 Cropped Area of Annual Crops																		
1) Wet Season Jurigated Paddy ha	450	5 575	3 546	500		255	899	1 034		200	764	200	100	999	800	1 3 5 5	2 812	1 1 3 0
- Paddy (rainfed cond.) 3/ ha	433	5,575	5,510	500	595	200	077	1,051		200	450	200	100	,,,,	714	1,555	2,012	1,150
- Rainfed Paddy ha					355	345		300	255	500		700	830				107	
- Palawija ha	007	5 575	2 5 4 6	500	050	600	800	1 2 2 4	255	700	1 214	000	020	000	1.514	1 255	2.010	1.120
2) Dry Season I	883	3,373	3,340	300	930	600	899	1,334	255	/00	1,214	900	930	999	1,314	1,555	2,919	1,130
- Palawija ha																		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3) Dry Season II	450	3 800	2 566	478		128	270	520			164					678	2 812	1.000
- Palawija ha	150	5,077	2,500	170		120	270	520		20	101	40	10			070	2,012	1,000
Total ha	450	3,899	2,566	478	0	128	270	520	0	20	164	40	10	0	0	678	2,812	1,000
4) Annual	900	9 474	6 1 1 2	978	0	383	1 169	1 554	0	200	928	200	100	000	800	2 033	5 624	2 130
- Paddy (rainfed cond.) 3/ ha	433	9,474	0,112	0	595	0	0	1,554	0	200	450	200	0	0	714	2,033	0,024	2,150
- Rainfed Paddy ha	0	0	0	0	355	345	0	300	255	500	0	700	830	0	0	0	107	0
- Palawija ha	0	0 474	0	0	0	0	0	0	0	20	0	40	10	0	0	0	0	0
3 2 Overall Intensity of Annual Crops 4/	1,333	9,474	0,112	9/8	930	128	1,109	1,834	233	720	1,578	940	940	999	1,314	2,055	5,751	2,130
1) Wet Season %	100	100	100	100	100	100	100	100	33	47	72	90	100	94	100	100	85	100
2) Dry Season I %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3) Dry Season II %	51	70	72	96	0	21	30	39	0	I	10	4	1	0	0	50	82	88
- Irrigated Paddy %	102	170	172	196	0	64	130	116	0	13	55	20	11	94	53	150	163	188
- Paddy (rainfed cond.) 3/ %	49	0	0	0	63	0	0	0	0	0	27	0	0	0	47	0	0	0
- Rainted Paddy %	0	0	0	0	37	58	0	22	33	33	0	70	89	0	0	0	3	0
Total %	151	170	172	196	100	121	130	139	33	48	81	94	101	94	100	150	166	188
3.3 Irrigation Performances 5/ %	102	170	172	196	0	150	130	150	-	110	76	120	110	100	53	150	168	188
3.4 Intensity in Irrigated Field 6/ %	151	170	172	196	100	150	130	150	-	110	114	120	110	100	100	150	168	188
4. Crop Yield & Production 4.1. Crop Yield																		
1) Wet Season																		
- Irrigated Paddy t/ha	3.0	4.0	5.0	4.0		4.0	4.0	4.0		3.5	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0
- Paddy (rainfed cond.) 3/ t/ha	2.5				2.5	2.5		2.5	2.5	2.5	2.5	2.5	2.5		2.5		2.5	
- Palawija t/ha					2.5	2.5		2.5	2.0	2.5		2.0	2.5				2.5	
2) Dry Season I																		
- Palawija t/ha																	I	
- Irrigated Paddv t/ha	3.0	4.0	4.5	4.0		4.0	4.0	4.0		-	3.5	-				4.0	4.0	4.0
- Palawija t/ha										2.5		2.5	2.5					
4) Avg. Paddy Yield 7/ t/ha	2.8	4.0	4.8	4.0	2.5	3.3	4.0	3.8	2.5	2.8	3.2	2.7	2.6	3.5	3.0	4.0	4.0	4.0
4.2 Annual Crop Production 1) Irrigated Paddy ton	2,700	37,896	29 277	3 912	0	1.532	4 676	6.216	0	700	3 248	700	350	3 497	2,800	8 1 3 2	22 496	8.520
2) Paddy (rainfed cond.) 3/ ton	1,083	0	0	0	1,488	0	.,070	0	0	0	1,125	0	0	0	1,785	0	0	0
3) Rainfed Paddy ton	0	0	0	0	888	863	0	750	638	1,250	0	1,750	2,075	0	0	0	268	0
4) Total Paddy ton	3,783	37,896	29,277	3,912	2,375	2,395	4,676	6,966	638	1,950	4,373	2,450	2,425	3,497	4,585	8,132	22,764	8,520
J i aiawija ton	0	0	0	0	0	U	U	U	0	50	0	100	23	0	0	0	U	U

 1/: Area converted to other land uses (alih fugsi)

 2/: Cropping patter: A = paddy - paddy or paddy - paddy/fallow; B = paddy - paddy/palawija or paddy - paddy/palawija/fallow; C = paddy - fallow; D = paddy - palawija/fallow; E = other patterns

 3/: Cropping intensity to Target Area
 5/: Cropping intensity in irrigated field (including paddy under rainfed condition)

 6/: Cropping intensity in irrigated field (including paddy under rainfed condition)
Table A-4.2.8 Present Agriculture Conditions in Target Schemes: North Sumatra - 2/3

District			Asah	an - con	tinued					1	Simalungu	in			Da	iiri	Karo	Deli S.
Irrigation Scheme	Arga	gan	tonto	Silau	dang	r	ladi	T	in Pane	bean/ [ongah	ombang / igaraja	an	nisasi/ onggo	ompah	Duma	di	ompaten	Sidoras
	Panca /	Serban	Silau B	Sungai	Padang Mahon	Simuju	Purwoo	Pentara	Simant Dame	Panam Panet T BK	Raja H T. Man	Kerasa	J. Kolo Purbolo	Naga S	Risma	Lae Or	Parit Lo	Bandar
No. Technical Level	19 T	20 T	21 NT	22 ST	23 ST	24 ST	25 T	26 ST	27 NT	28 T	29 T	30 T	31 T	32 T	33 ST	34 ST	35 ST	36 ST
1. Land Use																		
- Irrigated Paddy Field ha	1,829	2,044	20	200	724	1,200	1,635	40	0	1,722	2,023	3,869	1,015	1,015	0	15	619	2,462
- Rainfed Paddy Field ha	671	0	0	0	2,181	0	0	0	0	0	0	0	0	0	800	185	621	995
- Non-paddy Field ha	0	0	3,157	840	0	0	0	858	1,000	0	0	918	0	0	722	407	2	0
Upland Field ha			2 210	588				600	1,000			643			122	407	2	
Uncultivated Land ha			947	252				258				275						
Total ha	2,500	2,044	3,177	1,040	2,905	1,200	1,635	898	1,000	1,722	2,023	4,787	1,015	1,015	1,522	607	1,242	3,457
1.2 Non-potential Area																		
- Rainfed Paddy Field ha	0	0	0	0	0	810	0	0	0	0	0	0	0	0	0	502	0	0
Upland Field ha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	593	0	0
Tree Crops Land ha																070		
Uncultivated Land ha																		
Total ha	0	0	0	0	0	810	0	0	0	0	0	0	0	0	0	593	0	0
1.5 Target Area $(1.1 + 1.2)$ ha	2,500	2,044	5,177	1,040	2,905	2,010	1,635	136	1,000	1,722	2,023	4,/8/	1,015	1,015	1,522	1,200	1,242	3,457
1.5 Registered Area $(1.3 + 1.4)$ ha	2,500	2,333	3,231	1,315	3,231	2,560	1,635	1,034	1,000	1,723	2,045	5,000	1,030	1,360	1,522	1,200	1,242	3,457
2. Cropping Pattern in Irrigated Area 2/	A	A	A	D	A	A	A	В	-	A	В	В	A	В	-	A	Α	Α
3. Cropped Area/Cropping Intensity																	I	
3.1 Cropped Area of Annual Crops																		
- Irrigated Paddy ha	1.000	1.842	20		724	1.200	1.635	40		1.653	2 007	2 697	1.010	1.003		15	325	2 462
- Paddy (rainfed cond.) 3/ ha	829	-,		200	, = .	-, • •	1,000			-,	_,	_,.,.	-,	-,			294	_,
- Rainfed Paddy ha	671				2,181	810									800	185	621	995
- Palawija ha	2 500	1.042	20	200	2 005	2 010	1.625	40	1,000	3	12	60	5	12	722	800	2	2 457
2) Dry Season I	2,500	1,842	20	200	2,905	2,010	1,635	40	1,000	1,050	2,019	2,757	1,015	1,015	1,522	1,000	1,242	3,457
- Palawija ha																		
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3) Dry Season II	796	1 760	20		200	712	1 610	20		1 702	1 251	2 715	080	480		15	225	1.070
- Palawija ha	/ 80	1,700	20	35	300	/12	1,019	20		1,702	590	2,713	989	508		15	323	1,970
Total ha	786	1,760	20	35	300	712	1,619	40	0	1,709	1,841	3,584	998	997	0	15	325	1,970
4) Annual																		
- Irrigated Paddy ha	1,786	3,602	40	200	1,024	1,912	3,254	60	0	3,355	3,258	5,412	1,999	1,492	0	30	650	4,432
- Rainfed Paddy ha	671	0	0	200	2.181	810	0	0	0	0	0	0	0	0	800	185	621	995
- Palawija ha	0	0	0	35	0	0	0	20	1,000	10	602	929	14	520	722	800	2	0
Total ha	3,286	3,602	40	235	3,205	2,722	3,254	80	1,000	3,365	3,860	6,341	2,013	2,012	1,522	1,015	1,567	5,427
3.2 Overall Intensity of Annual Crops 4/	100	00	2	44	100	100	100	12	100	06	100	67	100	100	100	02	100	100
2) Dry Season I %	100	90	0	44	100	100	100	0	100	90	100	0/	100	100	100	0	100	100
3) Dry Season II %	31	86	2	8	10	35	99	13	0	99	91	86	98	98	0	1	26	57
4) Annual %																		
- Irrigated Paddy %	71	176	4	0	35	95	199	20	0	195	161	131	197	147	0	3	52	128
- Rainfed Paddy %	27	0	0	44	75	40	0	0	0	0	0	0	0	0	53	15	50	29
- Palawija %	0	0	0	8	0	0	0	7	100	1	30	22	1	51	47	67	0	0
Total %	131	176	4	52	110	135	199	27	100	195	191	153	198	198	100	85	126	157
3.3 Irrigation Performances 5/ %	98	176	200	18	141	159	199	200	-	195	191	164	198	198	-	200	105	180
4. Crop Yield & Production	143	1/0	200	118	141	139	199	200	-	193	191	104	198	198	-	200	155	100
4.1 Crop Yield																		
1) Wet Season	-										<u> </u>		<u> </u>	<u> </u>				
- Irrigated Paddy t/ha Paddy (rainfed cond.) 3/ t/ha	3.5	4.0	3.5	2.5	4.0	4.0	4.0	4.0		4.5	4.5	4.5	4.5	4.0		3.5	4.0	4.5
- Rainfed Paddy t/ha	2.5			4.3	2.5	2.5									2.5	2.5	2.5	2.5
- Palawija t/ha									2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
2) Dry Season I																	I	
- Palawija t/ha																		
- Irrigated Paddv t/ha	3.5	4.0	3.5		3.5	4.0	4.0	4.0		4.5	4.0	4.5	4.5	4.5		3.5	4.0	4.0
- Palawija t/ha				2.5				2.5		2.5	2.5	2.5	2.5	2.5				
4) Avg. Paddy Yield 7/ t/ha	3.0	4.0	3.5	2.5	2.9	3.6	4.0	4.0	-	4.5	4.3	4.5	4.5	4.2	2.5	2.6	3.1	4.0
4.2 Annual Crop Production	6 251	14 409	140	0	3 046	7 610	13 016	240	0	15.009	14 026	24 254	8 004	6 212	0	105	2 600	18 050
2) Paddy (rainfed cond.) 3/ ton	2.073	14,408	140	500	J,940 0	7,048 0	13,010	∠40 0	0	13,098	14,030	24,334 0	0,996	0,213	0	103	<u>∠,000</u> 735	10,939
3) Rainfed Paddy ton	1,678	0	0	0	5,453	2,025	0	0	0	0	0	0	0	0	2,000	463	1,553	2,488
4) Total Paddy ton	10,001	14,408	140	500	9,399	9,673	13,016	240	0	15,098	14,036	24,354	8,996	6,213	2,000	568	4,888	21,447
5) Palawija ton	0	0	0	88	0	0	0	50	2,500	25	1,505	2,323	35	1,300	1,805	2,000	5	0

 1/: Area converted to other land uses (alih fungsi)

 2/: Cropping patter: A = paddy - paddy or paddy - paddy/fallow; B = paddy - paddy/palawija or paddy - paddy/palawija/fallow; C = paddy - fallow; D = paddy - palawija/fallow; E = other patterns

 3/: Cropping intensity to Target Area
 5/: Cropping intensity in irrigated field (including paddy under rainfed condition)

 6/: Cropping intensity in irrigated field (including paddy under rainfed condition)

Table A-4.2.8 Present Agriculture Conditions in Target Schemes: North Sumatra - 3/3

District			Deli Sa	aerdang			Langkat			Inter-o	listrict S	cheme				
Irrigation Scheme	Namu Rambe	Sei Belutu	Langau	Medan Krio	Rantau Panjang	Pekan Kamis	Secanggang	Paya Lobang	Namu Sira-sira Kr & Kn	Namu Sira-sira Kr & Kn	Bah Korah II	Sijambi	Rambung Mera	Paya Sordang		
No. Technical Level	37 T	38 ST	39 ST	40 T	41 ST	42 ST	43 ST	44 ST	45 T	46 T	47 T	48 T	49 T	50 T	Overall Prov	ince
1. Land Use	1	51	51	1	51	51	51	51	1	1	1	1	1	1	Overall 110V	ince
1.1 Potential Area																
- Irrigated Paddy Field ha	1,036	5,076	1,150	2,943	2,309	920	1,319	1,263	1,350	3,953	1,723	885	944	3,979	72,620	74%
- Non-paddy Field ha	0	0	/30	57	0	180	81	293	0	0	0	28	0	0	11,838	11%
Upland Field ha				57			81					28			2,297	2%
Tree Crops Land ha															6,371	6%
Total ha	1.036	5.076	1.900	3.000	2.309	1.100	1.400	1.558	1.350	3.953	1.723	1.008	944	4.350	94,994	<u> </u>
1.2 Non-potential Area	,		<i>y.</i>	.,	,	,	,	,	, ·	- ,	,	,		,		
- Rainfed Paddy Field ha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	810	1%
- Non-paddy Field ha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,338	2%
Tree Crops Land ha															1,221	1%
Uncultivated Land ha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	524	1%
1 3 Target Area $(11+12)$ ha	1.036	5 076	1 900	3 000	2 309	1 100	1 400	1 558	1 350	3 953	1 723	1 008	944	4 350	3,148	3%
1.4 Converted Land 1/ ha	0	6	1,000	16	2,509	0	0	0	900	147	272	5	2	0	9,041	10070
$\overline{1.5}$ Registered Area $(1.3 + 1.4)$ ha	1,036	5,082	2,000	3,016	2,309	1,100	1,400	1,558	2,250	4,100	1,995	1,013	946	4,350	107,183	
2. Cropping Pattern in Irrigated Area 2/ 3. Cropped Area/Cropping Intensity	D	A	A	В	C	В	C	A	В	В	A	A	В	A		
3.1 Cropped Area of Annual Crops																
1) Wet Season	1.000	4.000					1.000	1.0.0			1 10 5					= 10 (
- Irrigated Paddy ha	1,036	4,020	767	2,943	2 309	815	1,290	1,263	1,350	3,953	1,485	885	944	3,562	62,565	74%
- Rainfed Paddy ha		1,050	750		2,309	180	29	295				95		371	11,346	13%
- Palawija ha				57			81				8	28			2,790	3%
2) Dry Season I	1,036	5,076	1,900	3,000	2,309	1,100	1,400	1,558	1,350	3,953	1,493	1,008	944	3,933	84,098	100%
- Palawija ha	143														143	
Total	143	0	0	0	0	0	0	0	0	0	0	0	0	0	143	
3) Dry Season II		4 020	767	2 1 4 3		815		884	270	701	1 568	443	786	2 862	42 987	92%
- Palawija ha	143	4,020	707	800		92		004	135	395	1,508	44.5	89	2,002	3,762	8%
Total ha	143	4,020	767	2,943	0	907	0	884	405	1,186	1,568	443	875	2,862	46,749	100%
4) Annual	1.036	8 040	1 534	5.086	0	1.630	1 290	2 147	1.620	4 744	3 053	1 3 2 8	1 730	6 424	105 552	81%
- Paddy (rainfed cond.) 3/ ha	1,050	1,056	383	0	2,309	1,050	29	0	0	0	0	0	0	0,424	7,397	6%
- Rainfed Paddy ha	0	0	750	0	0	180	0	295	0	0	0	95	0	371	11,346	9%
- Palawija ha Total ha	286	9.096	2 667	5 943	2 309	2 007	1 400	2 442	1 7 5 5	5 139	3 061	28	1 819	6 795	6,695	5%
3.2 Overall Intensity of Annual Crops 4/	1,522	7,070	2,007	5,715	2,507	2,007	1,100	2,112	1,700	5,157	5,001	1,101	1,017	0,775	100,550	10070
1) Wet Season %	100	100	100	100	100	100	100	100	100	100	87	100	100	90	93	
2) Dry Season I %	14	0 79	0 40	98	0	0 82	0	57	0 30	0 30	91	0 44	93	0	0 52	
4) Annual %			10	,,,		02		51	50	50	<i>,</i> ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00	-	
- Irrigated Paddy %	100	158	81	170	0	148	92	138	120	120	177	132	183	148	117	
- Paddy (rainted cond.) 3/ % - Rainfed Paddy %	0	21	20	0	100	10	2	19	0	0	0	9	0	0	8	
- Palawija %	28	0	0	29	0	8	6	0	10	10	0	3	9	0	7	
Total %	128	179	140	198	100	182	100	157	130	130	178	144	193	156	145	
3.4 Intensity in Irrigated Field 6/ %	128	138	155	200	100	187	100	170	130	130	178	150	193	161	151	
4. Crop Yield & Production																
4.1 Crop Yield																
- Irrigated Paddy t/ha	4.0	4.0	4.0	4.0		4.5	4.0	4.0	4.5	4.5	4.5	4.0	4.5	4.5		
- Paddy (rainfed cond.) 3/ t/ha		2.5	2.5		2.5	2.5	2.5									
- Rainfed Paddy t/ha			2.5	25		2.5	25	2.5			25	2.5		2.5		
2) Dry Season I				2.3			2.3				2.3	2.3				
- Palawija t/ha	2.5															
3) Dry Season I		2 5	25	4.0		4.0		Λ 5	15	15	15	25	15	15		
- Palawija t/ha	2.5	5.5	5.5	2.5		2.5		4.3	2.5	2.5	4.3	5.5	2.5	4.5		
4) Avg. Paddy Yield 7/ t/ha	4.0	3.6	3.2	4.0	2.5	4.0	4.0	4.0	4.5	4.5	4.5	3.7	4.5	4.4	3.9	
4.2 Annual Crop Production 1) Irrigated Paddy ton	4 1 4 4	30.150	5 752	20 344	0	6 978	5 160	9.030	7 290	21 348	13 730	5 001	7 785	28 908	438 338	
2) Paddy (rainfed cond.) 3/ ton	0	2,640	958	0	5,773	263	73	0	0	0	0	0	0	0	18,493	
3) Rainfed Paddy ton	0	0	1,875	0	0	450	0	738	0	0	0	238	0	928	28,365	
4) Total Paddy ton 5) Palawija ton	4,144	32,790	8,585	20,344	5,773	7,640	5,233	9,768	7,290	21,348	13,739	5,328	7,785	29,836	485,185	
<i>c j i uuu i i ju</i> tõli	115	. 0	0		0	250	200	0	550	200	20	, 0	123	0	10,730	1

 1/1/10
 0
 0
 1/2,142)
 0
 10,738

 1/: Area converted to other land uses (alih fungsi)
 20/2,142)
 0
 10,738

 2/: Cropping patter: A = paddy - paddy or paddy - paddy/fallow; B = paddy - paddy/palawija or paddy - paddy/palawija/fallow; C = paddy - fallow; D = paddy - palawija/fallow; E = other patterns
 3/: Paddy grown in irrigated area under rainfed condition

 4/: Cropping intensity to Target Area
 5/: Cropping intensity in irrigated field (including paddy under rainfed condition)

 6/: Cropping intensity in irrigated field (including paddy under rainfed condition)
 7/: Weighted annual average yield of irrigated & rainfed paddy

Table A-4.2.9 Estimation of Irrigated Paddy Yield : North Sumatra

	Irrigated	evel	Major		Statistic Data	(GKG t/ha) 1/		PSDA (O	GKG t/ha) 2/	Crop Cuttin	ng Surv 2000 to	ey 3/	Inventory S	urvey (GKG t/	/ha) 4/		Estim	ated Yi	eld (GKG t/ha)
District/Irrigation Scheme	Paddy	л. Г	Sub-district	1998/1999	1999/2000	2000/2001	Average	Techn	ical Level	Wet	2000 IO	ry Averag	e of 00/01 -	02/03		1	Pre	sent	Planned Target
	Field	Cech	Sub-district	10-3 4-9A 4-9B	10-3 4-9A 4-9B	10-3 4-9A 4-9F	Average	T ST	NT Rawa	No Avg	No	Avg Source	Wet	Dry Source	Wet	Drv	Wet	Dry	Wet Dry
Nias			Distric	3.3 3.3 3.3	3.7 3.5 3.3	3.7 3.5 3.	3 3.6 3.4 3.3	3 3.8 3.	.7 3.3			ing. Source		Dij Source		5.9		2.9	iner Bij
1. Gido Sebua	883	Т	Gido	'95 2.4	'98 1.5							farmer	2.6	2.6			3.0	3.0	4.5 4.5
Mandaling Natal			Distric		4.6 4.6 4.5	4.6 4.7 4.	2 4.6 4.7 4.4	1		-		DUDED							
2. Batang Gadis	5,575	T	Panyabungan	4.8	AC AC A5	6.4	5.6	40 4	7 42 29			DIPERT	A 5.0	3.9	-		4.0	4.0	5.0 5.0
3 Batang Ilung	3 546	т	Padang Bolak	4./ 4./ 4.4	4.0 4.0 4.5	4.0 4.0 4.	1 4.0 4.0 4.	4.9 4	./ 4.2 3.8	36 7 0		7.5 farmer	5.8	5.8			5.0	4.5	55 55
4. Blk Sitongkon/Napa Suron	500) ST	Barumun	5.4	5.4	5.7	5.5			50 7.0	, 0	7.5 farmer	5.6	5.8			4.0	4.0	5.0 5.0
5. Siborna	595	5 ST	Sosa	7.6	5.4	5.5	6.2			12 5.3	6	farmer	5.0	3.5 rainfed	1		2.5		4.5 4.5
50. Paya Sordang	3,979) T	Batang Angkola	5.4	5.5	5.4	5.4					farmer	4.3	4.3			4.5	4.5	5.5 5.5
Lapanuli Lengah	255	т	District	3.9 3.9 3.6	4.0 3.9 3.9	4.0 4.1 3.	/ 4.0 4.0 3.	4.0 3	.9 3.8 3.4	-		formore	5.2	5.2			4.0	4.0	50 50
7 Badiri Lonian	890) 1) T	Lumut		4.5	4.5	4.3			3 4 2	,	farmer	4 3	43			4.0	4.0	5.0 - 5.0
8. Pandurungan	1,034	Ť	Lumut		4.8	4.6	4.7			3 4.2		farmer	5.2	5.2			4.0	4.0	5.0 5.0
9. Sihiong	() NT	Sibagangun											rainfed	1		2.5		4.5 4.5
Tapanuli Utara	•		District	4.0 4.0 3.8	4.0 4.0 4.0	4.0 4.0 3.	9 4.0 4.0 3.9	4.4 4	.2 4.0 3.9	2		<i>c</i>							
10. Aek Silang	200	ST ST	Dolok Sanggul	4.0	4.0	4.2	4.1			3 2.1		farmer	3.5	3.5			3.5	2.5	4.5 4.5
12 Parmiahan Hutanaung	200	51 ST	Dolok Sanggul	4.0	4.0	4.2	4.1										3.5	5.5	4.5 4.5
13. Sinamo	100) ST	Pakkat	'98 4.0	'99 4.0	4.0	4.0										3.5	-	4.5 4.5
Toba Samosir			Distric		4.0 4.0 4.0	4.0 4.0 3.	9 4.0 4.0 4.0)											
14. Aek Mandos I	999	ST ST	Porsea	'98 4.3	'99 4.4	4.6	4.4				1	6.1					3.5	-	4.5 4.5
15. Simangatasi II	1,514		Silaen	4.1	4.1	4.2	4.1		2 41 24								3.5	-	4.5 4.5
16 Bulung Ihit	1 355	т	Merhau	4.0 4.0 5.8	4.0 4.0 5.9	4.0 4.0 5.	9 4.0 4.0 5.5	4.4 4	.5 4.1 5.4	<u>F</u>		farmer	5.0	5.0			4.0	4.0	50 50
Asahan	1,000	-	Distric	4.2 4.1 4.2	4.2 4.2 4.1	4.1 4.2 4.0	4.2 4.2 4.1	4.5 4	4 4.2 3.9				5.0	5.0				1.0	0.0 0.0
17. Perkotaan	3,339	Т (Air Putih	4.3	5.5	4.3	4.7			111 3.7	39	4.7 farmer	6.1	6.1			4.0	4.0	5.0 5.0
18. Sungai Balai	1,130) ST	Tanjung Tiram	4.2	4.3	3.7	4.1					farmer	4.3	6.1			4.0	4.0	5.0 5.0
19. Panca Arga	1,829		Meranti	4.3	4.1	4.0	4.1			3 4.5	2	formore	3.2	3.2 4.8 formor	4.5	2 4 1	3.5	3.5	4.5 4.5
21 Silau Bonto	3 117	NT	Air Ioman	4.5	4.1	3.9	3.9			5 4.5	,	farmer	3.9	3.9	4.0	5 4.1	3.5	3.5	45 45
22. Sungai Silau	625	ST	Simpang Empat	4.1	4.1	3.9	4.0			12 4.2	2	farmer	2.9	rainfed	1		2.5		4.5 4.5
23. Padang Mahondang	724	ST	Pulo Rakyat	4.1	4.1	4.7	4.3					farmer	3.8	3.8			4.0	3.5	5.0 5.0
24. Simujur	1,200) ST	Air Putih	4.3	5.5	4.3	4.7			11 4.6	5 7	4.8 farmer	4.3	3.9			4.0	4.0	5.0 5.0
25. Purwodadi 48. Sijambi	1,032		Simpang Empat	4.2	4.5	2.7	3./			2 2.4	- 2	3.8 WUA	3.7	3.0			4.0	4.0	5.0 5.0
Simalungun	00.	, 1	District	4.9 4.8 4.7	4.9 4.8 4.8	4.8 4.8 4.1	3 4.9 4.8 4.0	5.0 4	5 4.2				5.0	5.0			4.0	5.5	5.0 4.5
26. Pentara	146	5 ST	Raya									farmer	5.2	4.5			4.0	4.0	5.0 5.0
27. Simantin Pane Dame	() NT	Panei	4.8	4.8	5.0	4.9							rainfed	1		-	-	4.5 4.5
28. Panambean/Panet Tongah BK	1,722	T	Panei	4.8	4.8	5.0	4.9			13 5.7	29	5.9 farmer	4.8	4.9			4.5	4.5	5.5 5.5
29. Kaja Hombang / L.Mangaraja	3 860		Huta Bayu Kaja Pem Bandar	4.9	4.9	4.7	4.8			13 5.0	20	5.8					4.5	4.0	5.5 5.0
31. J. Kolonisasi/Purbolonggo	984	T	Joring Hataran	4.8	4.8	4.8	4.8			2 6.1	5	5.8 farmer	5.6	5.8			4.5	4.5	5.5 5.5
32. Naga Sompah	1,060) T	Pem. Bandar	5.0	5.0	4.9	5.0			17 5.0	29	5.8 farmer	4.6	4.6			4.0	4.5	5.0 5.5
47. Bah Korah II	1,900) T	Siantar	4.9	4.9	5.1	5.0			9 5.4	25	5.6 farmer	4.9	4.2			4.5	4.5	5.5 5.5
49. Rambung Mera	1,102	2 T	Siantar	4.9	4.9	5.1	5.0		2 20	9 5.4	25	5.6 farmer	4.5	4.7	-		4.5	4.5	5.0 5.5
33 Risma Duma	ſ	ST	Silima Pungga-pungga	4.0 3.9 3.7	4.0 4.0 4.0	4.0 5.9 5.0	4.0 3.9 3.0	4.	.2 3.9	-			3.2	2.9 rainfed	1		2.5	_	45 45
34. Lae Ordi	15	ST	Salak	3.5	3.5	3.5	3.5						5.4	2.) Tunned			3.5	3.5	4.5 4.5
Karo			Distric	4.1 3.9 3.9	4.1 4.1 4.0	4.1 4.1 3.8	4.1 4.0 3.9	4	.5 4.1										
35. Parit Lompaten	619	ST ST	Juhar			6.1				6 5.9)	farmer	5.2	4.3			4.0	4.0	5.0 5.0
Deli Serdang	2 462	CT.	District Descut Coli Tuon	4.7 4.7 4.3	4.7 4.6 4.6	4.7 4.6 4.	2 4.7 4.6 4.4	5.0 4	.7 4.2 3.9	15 54		5.1					4.5	4.0	55 50
37 Namu Rambe	2,402	51 T	Namu Rambe	4.8		4.5	4.7			15 5.0	5 3	5.1					4.3	4.0	50 50
38. Sei Belutu	5,076	ST	Sei Rampah	4.7		4.6	4.7			7 5.2	2 4	3.5	4.3	4.9			4.0	3.5	5.0 5.0
39. Langau	1,150) ST	Bandar Khalifah	4.6		4.6	4.6			19 5.5	5 5	3.1 farmer	2.5	3			4.0	3.5	5.0 5.0
40. Medan Krio	2,943	T	Sunggal	4.6		4.7	4.7						3.5	3.5			4.0	4.0	5.0 5.0
41. Rantau Panjang 42. Bakan Kamia	2,309	ST	Pantai Labu D. Masibull	5.1		4.5	4.8			33 4.1	12	2.0 former	5.2	rainfed	1	+	2.5	-	4.5 4.5
44 Paya Lobang	1 263	ST	Tehing Tinggi	4.0		4.5	4.5			29 4.8	12	farmer	4 3	5.4	+	+	4.5	4.0	50 50
Langkat	1,402	51	District	4.1 4.1 4.2	4.2 4.1 4.1	4.1 4.2 4.0	4.1 4.1 4.1	4.8 4	.4 4.1	1	1	iu not	J	2.1	1	1	4.0	т.5	2.0 2.0
43. Secanggang	1,319	ST	Secanggang	5.0		4.8	4.9					farmer	4.3	4.3	3.5	5 3.5	4.0	-	5.0 5.0
45 Namu Sira-sira Kiri	5,303	Т	Sei Bingei	7.0	6.0	6.7	6.9			25 5.8	3 10	5.9	3.5	4.3	-		4.5	4.5	5.5 5.5
46 Namu Sira-sira Kanan			K 11919	1	6.0	6.5	63	1	1 1	1 1	1	1 1	1 1	1	1	1	1	1	1 1

17. District data -- Statistik Padi & Palawija Sumatera Utara, 1999, 2000 & 2001, BPS N. Sumatra; Sub-district data --- Kabupaten Dalam Angka, 1999, 2000 & 2001, BPS Kabupaten 2/: Bahan Presentase Rapat Regional Pemantapan O&P Pengairan Tahun Anggaran 2000, aeptember 2000, Dinas Pekerjaan Umun Pengairan, Sumatera Utara

3/: Results of crop cutting survey carried out by BPS in 2000, 2001 & 2002 (GKG t/ha) 4/: Results of the Inventory Survey by the Study Team

AT - 25

		T T 1.							Pa	ddy										Maize		
Itama	Unit	Unit		Rainfeo	l Paddy						Irrigate	d Paddy					Com	posit		Hył	orid	
items	Unit	Thee	0'54	Value	0'#	Value	0'+++	Value	0'tu	Value	0'54	Value	0'5	Value	0'#	Value	0'tu	Value	0'tu	Value	0'#	Value
		(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)	Qty	(Rp000)
1. Gross Return																			No-ti	llage	No-ti	llage
Unit Yield	(t/ha)		2.5		3.0		3.5		4.0		4.5		5.0		5.5		2.5		4.0		5.0	
Unit Price	(Rp.000/t)			1,300		1,300		1,300		1,300		1,300		1,300		1,300		1,100		1,100		1,100
Gross Return	(Rp.000)			3,250		3,900		4,550		5,200		5,850		6,500		7,150		2,750		4,400		5,500
2. Production cost				1,497		1,762		1,983		2,173		2,404		2,570		2,725		914		1,670		2,006
2-1. Farm Inputs				297		392		482		542		677		750		830		460		953		1,090
Seed 1/	(kg)		30	60	30	60	30	60	30	60	30	90	30	90	30	90	30	120	20	440	20	440
Fertilizers				187		282		347		389		494		568		648		290		385		498
- Urea	(kg)	1.3	100	130	100	130	150	195	150	195	180	234	200	260	225	293	150	195	150	195	200	260
- SP36	(kg)	1.9	30	57	50	95	50	95	50	95	50	95	75	143	75	143	50	95	75	143	75	143
- KCl	(kg)	1.9	0	0	30	57	30	57	30	57	50	95	50	95	75	143		0	25	48	50	95
- ZA	(kg)	1.4	0	0	0	0	0	0	30	42	50	70	50	70	50	70		0		0		0
Agro chemicals				50		50		75		93		93		93		93		50		128		153
- Insecticide (liquid)	(lit)	50	1.0	50	1.0	50	1.5	75	1.5	75	1.5	75	1.5	75	1.5	75	1.0	50	1.0	50	1.5	75
- Insecticide (powder)	(kg)	30																				
- Rodenticide	(kg)	35							0.5	18	0.5	18	0.5	18	0.5	18			0.5	18	0.5	18
- Herbicide	(kg)	30																	2.0	60	2.0	60
2-2. Labour Costs				684		828		936		1,044		1,116		1,188		1,242		180		270		360
Contracted Works																						
- Planting/Transplanting 2/	(unit)		1	360	1	360	1	360	1	360	1	360	1	360	1	360						
- Harvesting	(unit)																					
Labour Requirements																						
- Hired Labor	(man-day)	18	18	324	26	468	32	576	38	684	42	756	46	828	49	882	10	180	15	270	20	360
- Family Labor	(man-day)		44		44		44		44		44		44		44		62		68		68	
l otal	(man-day)		62		/0		/6		82		86		90		93		12		83		88	
2.2.1.1.0				200		200		200		200		200		200		200		0		0		0
2-3. Land Preparation	(·····i4)		1	380	1	380	1	380	1	380	1	380	1	380	1	380		0		0		0
- Machinery	(unit)		1	580	1	380	1	580	1	380	1	580	1	580	1	580						
- Drait Animal	(unit)		2.0/	65	2.0/	70	2.0/	01	2.0/	104	2.0/	117	2.0/	120	2.0/	1.42	2.0/	5.5	2.0/	0.0	2.0/	110
2-4. Field Transportation	(L.S.)	70/4	2 %	05	2 %	/8	2 %	91	2 %	104	2 %	11/	2 %	150	2 %	143	2 %	175	2 %	280	2 %	110
2-5. Shelling Cost	(5)	/0/t	5.0/	71	5.0/	01	5.0/	0.1	5.0/	102	5.0/	114	5.0/	122	5.0/	120	5.0/	1/3	5.0/	280	5.0/	550
2-0. Infisceratious Expenses	(L.S.)		3 %	25	3 %	2.0	J 70	94	3 70	103	3 70	114	3 70	5.0	3 70	150	3 %	44	3 %	00	3 %	5.0
3 Net Return	P. 000			1 752		3.0 2 1 2 0		2.5		3 027		4.3		3.030		3.3 4 175		2.3 1 937		2 730		3.0
5. Net Keturn	Kp.000			1,755		2,138		2,307		5,027		5,440		5,950		4,425		1,037		2,730		5,495
	Rounded	%		1,750		2,140		2,570		3,030		3,450		3,930		4,420		1,840		2,730		3,490

Table A-4.2.10 Financial Crop Budget per Ha : North Sumatra

1/: Seed price: Paddy --- yield level < 4.5 Rp. 2,000; yield level ≥4.5 Rp. 3,000 Maize --- composite Rp. 4,000/kg; hybrid Rp. 22,000/ka

2/: Contract work for transplanting assumed --- Rp. 360,000/ha at financial price

			Cropp	oing Intensit	y & Cropp	ed Area	Net Retur	rn per Ha	Net Return
Irrigation S	Scheme	Crop	Intensity	Cropped	Intensity	Cropped	Wet	Dry	per Ha of Farm
			(%)	Area (ha)	(%)	Area (ha)	Season	Season	(Rp. 000)
1. Gido Sebua	Technical Irrigated Field	Irrigated Paddy Paddy (rainfed)	51	0.51	51	0.51	2.14	2.14	
Holding Size (ha)	1 ha	Palawija (maize)	49	0.49			1.75		3,040
2. Batang Gadis	Technical Irrigation	Irrigated Paddy	100	1.00	70	0.70	3.03	3.03	
Holding Size (he)	Irrigated Field	Paddy (rainfed)							5 151
3. Batang Ilung	Technical Irrigation	Irrigated Paddy	100	1.00	72	0.72	3.93	3.45	5,151
······································	Irrigated Field	Paddy (rainfed)			, _				
Holding Size (ha)	<u>l ha</u>	Palawija (maize)	100	1.00	0(0.00	2.02	2.02	6,414
A. Dik Sitoligkon/	Irrigated Field	Paddy (rainfed)	100	1.00	90	0.96	5.05	5.05	
Holding Size (ha)	1 ha	Palawija (maize)							5,939
5. Siborna	Semi-Tehnical	Irrigated Paddy	100	1.00			1.75		
Holding Size (ha)	Irrigated Field	Paddy (rainfed) Palawija (maize)	100	1.00			1.75		1 750
6. Siaili Tukka	Technical Irrigation	Irrigated Paddy	100	1.00	50	0.50	3.03	3.03	1,750
	Irrigated Field	Paddy (rainfed)							
Holding Size (ha)	l ha Tashnisal Irrigation	Palawija (maize)	100	1.00	20	0.20	2.02	2.02	4,545
7. Dauin Lopian	Irrigated Field	Paddy (rainfed)	100	1.00	50	0.30	5.05	5.05	
Holding Size (ha)	1 ha	Palawija (maize)							3,939
8. Pandurungan	Technical Irrigation	Irrigated Paddy	100	1.00	50	0.50	3.03	3.03	
Holding Size (ha)	1 ha	Paddy (rainfed) Palawija (maize)							4 545
9. Sihiong	Rainfed Area	Irrigated Paddy							1,515
	Rainfed Field	Paddy (rainfed)	100	1.00			1.75		1.550
Holding Size (ha)	I ha Semi-technical	Palawija (maize)	100	1.00			2 57		1,/50
10. Ack Shang	Irrigated Field	Paddy (rainfed)	100	1.00			2.51		
Holding Size (ha)	1 ha	Palawija (maize)			10	0.10		1.84	2,754
11. Sarulla	Semi-technical	Irrigated Paddy	63	0.63	14	0.14	2.57	2.57	
Holding Size (ha)	1 ha	Palawija (maize)	37	0.37			1.75		2.626
12. Parmiahan Hutapaur	n Semi-technical	Irrigated Paddy	100	1.00			2.57		_,
	Irrigated Field	Paddy (rainfed)			20	0.20		1.0.4	2 020
Holding Size (ha)	I ha Rainfed Area	Palawija (maize)			20	0.20		1.84	2,938
15. Smano	Rainfed Field	Paddy (rainfed)	100	1.00			1.75		
Holding Size (ha)	<u>l ha</u>	Palawija (maize)	100	1.0.0	10	0.10	0.47	1.84	1,934
14. Aek Mandos I	Technical Irrigation	Irrigated Paddy	100	1.00			2.57		
Holding Size (ha)	1 ha	Palawija (maize)							2.570
15. Simangatasi II	Technical Irrigation	Irrigated Paddy	53	0.53			2.57		
Halding Sing (ha)	Irrigated Field	Paddy (rainfed)	47	0.47			1.75		2 1 9 5
16 Bulung Ihit	Technical Irrigation	Irrigated Paddy	100	1.00	50	0.50	3.03	3.03	2,185
To: Durung Int	Irrigated Field	Paddy (rainfed)	100	1.00	50	0.50	5.05	5.05	
Holding Size (ha)	1 ha	Palawija (maize)							4,545
17. Perkotaan	Technical Irrigation	Irrigated Paddy Paddy (rainfed)	84	0.84	84	0.84	3.03	3.03	
Holding Size (ha)	1 ha	Palawija (maize)							5,090
18. Sungai Balai	Semi-technical	Irrigated Paddy	100	1.00	88	0.88	3.03	3.03	
Holding Size (he)	Irrigated Field	Paddy (rainfed)							5 606
19. Panca Arga	Technical Irrigation	Irrigated Paddy	55	0.55	43	0.43	2.57	2.57	3,090
	Irrigated Field	Paddy (rainfed)	45	0.45	.5	05	1.75	2.07	
Holding Size (ha)	<u>1 ha</u>	Palawija (maize)	0.0	0.00		0.00	2.02		3,306
20. Serbangan	I ecnnical Irrigation	Irrigated Paddy Paddy (rainfed)	90	0.90	86	0.86	3.03	3.03	
Holding Size (ha)	1 ha	Palawija (maize)							5,333
21. Silau Bonto	Non-technical	Irrigated Paddy	100	1.00	100	1.00	2.57	2.57	
Holding Size (ba)	Irrigated Field	Paddy (rainfed)							5 1 40
22. Sungai Silau	Semi-technical	Irrigated Paddy							5,140
	Irrigated Field	Paddy (rainfed)	100	1.00			1.75		
Holding Size (ha)	1 ha	Palawija (maize)	100	1.00	18	0.18	2.02	1.84	2,081
23. Padang Mahondang	Semi-technical	Paddy (rainfed)	100	1.00	41	0.41	3.03	2.57	
Holding Size (ha)	1 ha	Palawija (maize)							4,084
24. Simujur	Semi-technical	Irrigated Paddy	100	1.00	59	0.59	3.03	3.03	
Holding Size (ba)	Irrigated Field	Paddy (rainfed)							1 010
25. Purwodadi	Technical	Irrigated Paddy	100	1.00	99	0.99	3.03	3.03	4,018
	Irrigated Field	Paddy (rainfed)							
Holding Size (ha)	1 ha Semi technical	Palawija (maize)	100	1.00	50	0.50	2.02	2.02	6,030
20. remara	Irrigated Field	Paddy (rainfed)	100	1.00	50	0.50	5.03	5.03	
Holding Size (ha)	1 ha	Palawija (maize)			50	0.50			4,545

Table A-4.2.11 Estimated Net Farm Income per Ha : North Sumatra - 1/2

			Cropp	oing Intensit	y & Cropp	ed Area	Net Retur	rn per Ha	Net Return
Irrigation S	Scheme	Crop	Intensity	Cropped	Intensity	Cropped	Wet	Dry	per Ha of Farm
			(%)	Area (ha)	(%)	Area (ha)	Season	Season	(Rp. 000)
27. Simantin Pane Dame	Rainfed Area Upland Field	Irrigated Paddy Paddy (rainfed)							
Holding Size (ha)	1 ha	Palawija (maize)	100	1.00			1.84		1,840
28. Panambean / Panet T	Technical	Irrigated Paddy	96	0.96	99	0.99	3.45	3.45	
Holding Size (ha)	1 ha	Palawija (maize)			0.6	0.01		1.84	6,739
29. Raja Hombang / T. M	Technical	Irrigated Paddy	99	0.99	62	0.62	3.45	3.03	
Holding Size (ha)	1 ha	Paddy (rainfed) Palawija (maize)	1	0.01	29	0.29	1.84	1.84	5.846
30. Kerasaan	Technical	Irrigated Paddy	70	0.70	70	0.70	3.45	3.45	5,010
Holding Size (ba)	Irrigated Field	Paddy (rainfed)	2	0.02	22	0.22	1.84	1.84	5 272
31. J. Kolonisasi/Purbolo	Technical	Irrigated Paddy	100	1.00	97	0.22	3.45	3.45	5,272
	Irrigated Field	Paddy (rainfed)							
Holding Size (ha)	l ha Technical	Palawija (maize)	00	0.00	1	0.01	3.03	1.84	6,815
52. Naga Sompan	Irrigated Field	Paddy (rainfed)		0.99	40	0.46	5.05	5.45	
Holding Size (ha)	1 ha	Palawija (maize)	1	0.01	50	0.50	1.84	1.84	5,594
33. Risma Duma	Rainfed Area	Irrigated Paddy Paddy (rainfed)	100	1.00			1.75		
Holding Size (ha)	1 ha	Palawija (maize)	100	1.00			1.75		1,750
34. Lae Ordi	Rainfed Area	Irrigated Paddy							
Holding Size (ha)	Upland Field	Paddy (rainfed) Palawija (maize)	80	0.80			1 84		1 472
35. Parit Lompaten	Semi-technical	Irrigated Paddy	53	0.53	53	0.53	3.03	3.03	1,472
	Irrigated Field	Paddy (rainfed)	47	0.47			1.75		4.024
Holding Size (ha)	I na Semi-technical	Palawija (maize)	100	1.00	80	0.80	3 45	3.03	4,034
50. Dundur Studius	Irrigated Field	Paddy (rainfed)	100	1.00	00	0.00	5.15	5.05	
Holding Size (ha)	<u>1 ha</u>	Palawija (maize)	100	1.00			2.02		5,874
37. Namu Rambe	I echnical Irrigated Field	Paddy (rainfed)	100	1.00			3.03		
Holding Size (ha)	1 ha	Palawija (maize)			28	0.28		1.84	3,545
38. Sei Belutu	Semi-technical	Irrigated Paddy	79	0.79	79	0.79	3.03	2.57	
Holding Size (ha)	1 ha	Paddy (rainfed) Palawija (maize)	21	0.21			1.75		4 792
39. Langau	Semi-technical	Irrigated Paddy	67	0.67	67	0.67	3.03	2.57	.,
Holding Size (ba)	Irrigated Field	Paddy (rainfed)	33	0.33			1.75		4 220
40. Medan Krio	Technical	Irrigated Paddy	100	1.00	73	0.73	3.03	3.03	4,550
	Irrigated Field	Paddy (rainfed)							
Holding Size (ha)	<u>l ha</u>	Palawija (maize)			27	0.27		1.84	5,739
41. Ramau Lanjang	Irrigated Field	Paddy (rainfed)	100	1.00			1.75		
Holding Size (ha)	1 ha	Palawija (maize)							1,750
42. Pekan Kamis	Semi-technical	Irrigated Paddy Paddy (rainfed)	89	0.89	89	0.89	3.45	3.03	
Holding Size (ha)	1 ha	Palawija (maize)	11	0.11	10	0.10	1.75	1.84	6,144
43. Secanggang	Semi-technical	Irrigated Paddy	98	0.98			3.03		
Holding Size (ha)	Irrigated Field	Paddy (rainfed) Palawija (maize)	2	0.02			1.75		3 004
44. Paya Lobang	Semi-technical	Irrigated Paddy	100	1.00	70	0.70	3.03	3.45	5,001
	Irrigated Field	Paddy (rainfed)							5 445
45. Namu Sira-sira Kiri	Technical	Irrigated Paddy	100	1.00	20	0.20	3.45	3.45	5,445
	Irrigated Field	Paddy (rainfed)		2.00			2.10		
Holding Size (ha)	1 ha	Palawija (maize)	100	1.00	10	0.10	2 15	1.84	4,324
40. Inalliu Sila-Sila Kalla	Irrigated Field	Paddy (rainfed)	100	1.00	20	0.20	5.45	5.45	
Holding Size (ha)	1 ha	Palawija (maize)			10	0.10		1.84	4,324
47. Bah Korah II	Technical Irrigated Field	Irrigated Paddy	86	0.86	91	0.91	3.45	3.45	
Holding Size (ha)	<u>1 ha</u>	Palawija (maize)	0.5	0.01			1.84		6,116
48. Sijambi	Technical	Irrigated Paddy	100	1.00	50	0.50	3.03	2.57	
Holding Size (ba)	Irrigated Field	Paddy (rainfed)							4 315
49. Rambung Mera	Technical	Irrigated Paddy	100	1.00	83	0.83	3.45	3.45	
	Irrigated Field	Paddy (rainfed)				0.00		1.0.1	< 4=0
Holding Size (ha) 50 Paya Sordang	I na Technical	ralawija (maize) Irrigated Paddy	90	0.90	9 72	0.09	3 45	1.84	6,479
55. ruyu boruung	Irrigated Field	Paddy (rainfed)	,0	0.70	12	0.72	5.75	5.75	
Holding Size (ha)	<u>1 ha</u>	Palawija (maize)							5,589
	rigated Paddy Field								4,558
Average of $\frac{R}{U}$	Jpland Field								1,656
	Overall								4,278

Table A-4.2.11 Estimated Net Farm Income per Ha : North Sumatra - 2/2

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	$\begin{array}{c c c c c c c c c c c c c c c c c c c $																													
	Le	Registered	Irrigated	1.1	1.2	1.3	1.4	1	.5	1.6	1.7		1.8		2	.1	2	.2	2	.3	2	.4	3	.1	3.2	3.3	3.4	3.	5	3.6
Irrigation Scheme	Technical	Area	Area	PPLs	BPPs	KUD	KUD Mandiri	Farm	Credit	rm Inputs	Seed	Org	Farmer ganizati	sions	Dirotions	riactices	Channel	Channel	Ē	Channel	ice Mills	Storage	Engin	ieering	Agronom	ic Paddy Marketing	Palawija / Vegetable Marketing	K	Г	Extension
		(ha)	(ha)					1.5.1	1.5.2	Fa	Pro	KT	UPJA	KOP	1st	2nd	1st	2nd	1st	2nd	R	I	1st	2nd	1st 2r	d 1st 2nd	l 1st 2nd	1st	2nd	1st 2nd
1. Gido Sebua	Т	1,258	883	5	1	1	0	с	b	а	с				а	с	а	с	b	a	b	а	а	e	c ć	a d	a d	а	b	a c
2. Batang Gadis	Т	6,628	5,575	7	1	4	2	d	d	а	а		22	1	а	d	а	с	b	a	а	с	d	b	b c	d b		а	b	c a
3. Batang Ilung	Т	4,194	3,546	4	1	1	0	d	d	а	а	26			с	b	е	d	-	-	с	а	а	f	b c	a b				c d
4. Blk Sitongkon/Napa Suron	ST	1,012	500	1	1	0	0	d	d	а	а				d	а	а		-	-	b	a	b		b c	b		а	с	a b
5. Siborna	ST	1,000	595	0	0	0	0	d	d	с	a				d	с	а	c	-	-	b	a	а		c a					d a
Siaili Tukka	Т	1,057	255	1	1	2	0	b	а	а	а				а	с	а	с	b	a	b	с	e	d	c t	a c	a c	а	с	b c
Badiri Lopian	Т	1,283	899	4	1	0	0	d	d	а	а			2	-	-	-	-	а	b	b	а	а		b a		d b	с	b	c d
8. Pandurungan	Т	1,769	1,034	4	1	0	0	с	d	b	b				a	с	а	c	b	a	b	с	а	d	c c	a d	a d	b	d	a b
9. Sihiong	NT	2,000	0	4	1	0	0	а	d	с	с				-	-	-	-	b	a	b	с	d	f	a t	a c	a c	-	-	c b
10. Aek Silang	ST	1,500	200	2	1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$												a e	а	с	e b									
11. Sarulla	ST	1,692	1,214	1	1													a	с	a d										
12. Parmiahan Hutapaung	ST	1,000	200	3	1													d	а	e b										
13. Sinamo	ST	1,000	100	2	1	0	0	с	d	b	b				b	c	а	с	b	a	b	с	d	e	bc	a d	a e	а	с	e b
14. Aek Mandos I	ST	1,060	999	2	1	0	0	с	с	b	b				a	b	а	с	b	a	b	a	d	e	c t	a b	c d	а	с	e b
15. Simangatasi II	Т	1,515	1,514	2	1	1	0	с	d	b	b				b	с	с	e	b	a	b	с	d	e	d t	d a	a e	а	c	e b
16. Bulung Ihit	Т	5,000	1,355	4	1	1	0	a	a	a	a		-		a	c	а	b	-	-	a	a	а	e	a c	a e		a	d	c d
17. Perkotaan	T	3,457	3,339	5	1	1	1	а	a	a	a		9	4	a	b	а		a		b	d	a 1	b	c t	a d	a d	b		с
18. Sungai Balai	ST	1,185	1,130	1	0	0	0	a	a	а	a			1	a		а		-	-			b	e	c t	a d		b	с	a c
19. Panca Arga	Т	2,500	1,829	1	0	0	0	a	а	а	а	22		I	а	1	а		-	-	с	с	а	e	bc	a d		b	с	a c
20. Serbangan	I	2,333	2,044	2	0	1	0	a 1	a 1	a	a	22			a	a	а	c	a	D 1	с	C 1	а	D 1	с	d a	d a	D	с	a c
21. Silau Bonto	NI	3,231	20	3	0	0	0	d	a	a	a				a	e 1	а	c	a	D 1	C 1	a	a 1	b	a c	d a	d a	а	C 1	a b
22. Sungai Shau	51 ST	1,515	200	5	2	1	0	d	a d	a	a		1		a	b	a	c	a	b	b	c	a	e		a a		a	D	a c
24 Simulur	ST	2 560	1 200	1	2	0	0	u h	u	a 2	a 2		1		a	0	a	c	a	U	U	C	a 2	u h		a u	d u		C	a U
25 Purwodadi	T	1,635	1,200	1	1	1	0	3	h	a	a	16			a	d	a	c	-	h	h	C	a	e		d a	d a	c	h	a U
20. 1 ul locului		1,000	1,000	•			Ŭ	u	Inqu	iries ar	nd Cois	es for	Answe	rs Emn	oloved	in the l	nvento	orv Sur	rvev	U	0	Ū	u	, v	u	u u	u u	v	0	U U
1. Agriculture Extension & In	stituti	ons						2. N	larket	ing				· · · · · ·			3.0	lonstra	ints	****	1st = 1	orimarv	constr	aint 2	2nd = secor	darv constrai	nt			
1.1 No. of PPLs working in the	DI or	deployed in	sub-distric	ts locat	ted in I	DI		2.1	Prevai	ling Pr	actices	for Ma	rketing	of pade	dv		3.1	Engine	eering (Irrigati	on & I	Drainag	e)		3.4 Pal	wija & Vege	table Marke	ting		
1.2 No. of BPPs providing exte	ension	services in th	ne DI						a. Solo	l just a	fter har	vest at	field		5			a. Wat	er shor	tage at	on-far	n level	in dry	season	a. I	ow marketing	g prices	U		
1.3 No. of KUDs in and around	d the D	I							b. Solo	d paddy	after d	lrying						b. Poo	r drain	age					b. U	Instable mark	eting prices			
1.4 No. of KUD Mandiri amon	g KUI	Os in and arc	und the DI						c. Solo	l after i	nilling							c. Floc	oding	-					c. I	imited marke	t outlet			
1.5 Accessibility to farm credit	s in th	e DI							d. Solo	d after s	storing							d. Poo	r O&N	l at mai	n & 2r	y canal	5		d. I	imited barga	ining power	of farn	ners	
1.5.1 Accessibility to farm	credit	by farmers in	n the DI						e. Oth	er								e. Poor	r O&M	l at terti	ary lev	el and	below		e. F	oor quality o	f products			
a. No difficulty to receiv	e farm	credit						2.2	Prevai	ling ma	arketing	g chann	el of pa	addy in	DI			f. Othe	er						f. L	ow competiti	veness with	other p	roduc	ing areas
 b. Some difficulty to rec 	eive fa	rm credit, bı	it can get						a. Pad	dy (gab	oah) to o	collecto	or/midd	lemen											g. (ther				
c. Very difficult to receive	ve farn	n credit							b. Pad	dy (gał	oah) to I	KUD					3.2	Agron	omic						3.5 Far	ner Organiza	tions (kelom	pok tai	ni/KT)
d. Almost no access to fa	arm cre	edit							c. Pad	dy (gab	oah) to 1	rice mil	11					a. Farr	ners no	ot follow	ving re	comme	nded p	ractices	s a. N	lost members	s are not acti	ve		
1.5.2 Coverage of farm cre	dit in t	he DI							d. Rice	e (beras	s) to co	llector/	middle	men				b. Rat							b. I	conomic acti	vities are lin	nited		
a. Over 70 % of farmers	suppor	rted by farm	credit	c. 20	0 - 40 9	% supp	orted		e. Oth	er								c. Pest	& dise	eases					c. N	fanagerial ca	pacity of KT	s are li	mited	l
b. 40 - 70 % of farmers s	upport	ted by farm o	credit	d. le	ess thar	n 20% s	support	¢ 2.3	Prevai	ling ma	arketing	g chann	el of pa	ılawija	in DI			d. Oth	er						d. 1	lo collaborati	on among K	Ts		
1.6 Procurement of farm inputs	s (fertil	lizer/chemica	al)						a. Solo	to col	lector/r	niddler	nen				3.3	Paddy	Marke	ting					e. (ther				
a. No difficulty to procure		b. Some dif	ficulty	c. Ver	y diffic	cult			b. Solo	d at loc	al mark	tet						a. Low	v marke	eting pr	ices				3.6 Ext	ension				
1.7 Procurement of quality see	ds								c. Solo	i to KU	D							b. Uns	table n	narketin	g price	es			a. I	nplementatio	n of extensio	on prog	rams	1s limited
a. No difficulty to procure		b. Some dif	ficulty	c. Ver	y diffic	cult			e. Oth	er	6 D							c. Lim	ited ma	arket ou	tlet				b. S	hortage of op	eration fund	s of PI	Ls	
1.8 Farmers Organizations	ions 2.4 Availability of Post-harvest Facilities d. Limited bargaining power of farmers c. Extension activities of PPLs are limited												1																	
No. of Kelompok Tani form	ned in	the DI							Rice N	Aills	.,.	a. Surj	plus b.	Enoug	h c. No	ot enou	gh	e. Poor	r qualit	y of pro	oducts				d. (apability & e	experiences of	ot PPL:	s are l	imited
No. of UPJA formed in the									Storag	e Facil	ittes	a. Eno	ugh b.	Not end	ough c.	Not ex	isting	I. Othe	er						e. (uner				
NO. OF KOPTAN formed in	i the D	1																												

Table A-4.2.12 Summary Sheet for Results of Inventory Survey on Agriculture Support Services and Agricultural Constraints : North Sumatra - 1/2

						1	Agrici	ulture F	vtensic	n & In	stitutio	ns						2. Ma	rketing							3	Cons	traints '	****		-		
	vel						. Augrice	unture i	-		Situito	115	1.0			Pac	ddy		Pala	awija						J.	cons						
	Le	Registered	Irrigated	1.1	1.2	1.3	1.4	1	.5	1.6	1.7		1.8		2	.1	2	2.2	2	.3		2.4	3	5.1	3.2	2	3.	3	3.4		3.5	3.	.6
Irrigation Scheme	Fechnical	Area	Area	PPLs	BPPs	KUD	KUD Mandiri	Farm	Credit	rm Inputs	Seed	Org	Farmer ganizati	's ions		Practices		Channel	5	Channel	ice Mills	Storage acilities	Engir	neering	Agron	omic	Pad Marke	dy eting N	alawij egeta arket	ja / ble ing	KT	Exter	nsion
		(ha)	(ha)				_	1.5.1	1.5.2	Fa	Prc	KT	UPJA	KOP	1st	2nd	1st	2nd	1st	2nd	К	ол <u>ш</u>	1st	2nd	1st	2nd	1st	2nd	st 2	nd	1st 2nd	1st	2nd
26. Pentara	ST	1,034	40		1	0	0	d	d	а	а			2	а	с	а	d	а	с	b	a	а	b	b	d	b	а	a	g	c b	с	d
27. Simantin Pane Dame	NT	1,000	0	7	1	4	2	d	d	а	а		22	1	а	d	а	с	-	-	а	с	d	b	b	а	d	b	-	-	a b	с	а
28. Panambean/Panet Tong. BK	Т	1,723	1,722	3	1	1	0	с	с	а	а			1	а	с	а	с	а	b	b	b	f	f	b	с	b	d	b	d	c b	с	d
29. Raja Hombang/T. Mangaraja	Т	2,045	2,023	8	1	1	0	а	a	а	а				а		а	с	-	-	b	с	b	e	а	с	а	d	-	-	a c	а	с
30. Kerasaan	Т	5,000	3,869	8	1	1	0	а	a	а	а	16		2	а	b	а				b	с	b	e	а	с					a c	с	а
31. J. Kolonisasi/Purbolonggo	Т	1,030	1,015	1	1	1	0	d	d	а	а			2	а	с	а	с	а	с	b	а	е	а	с	b	а	d	b	d	c b	с	d
32. Naga Sompah	Т	1,360	1,015	4	1	1	1	с	d	а	а			2	а	с	а	с	а	с	b	а	а	f	b	с	b	d	b	d	a b	с	d
33. Risma Duma	ST	1,522	0	0	0	0	0	b	с	а	а				b	с	а	с	а	b	с	с	f		b	с			b			а	е
34. Lae Ordi	ST	1,200	15	2	1	2	0	с		с	с				b	d	d		а	b	с	b	а	b	b	с	а		a	b	а		
35. Parit Lompaten	ST	1,242	619	5	1	6	0	b	d	а	а		4	6	а	b	с	d	e	a	b	а	а	d	b	с	а	b	a	b	d	а	b
 Bandar Sidoras 	ST	3,457	2,462	6	1	8	3	а	с	а	а				а	с	а	с	а	d	b	a	b	f	а	с	а	d	a	d	a c	а	b
37. Namu Rambe	Т	1,036	1,036	2	2	6	6 4 a b a a b c b c c b c b c b a													a c	b	d											
38. Sei Belutu	ST	5,082	5,076	6	1	0														a c	e	b											
39. Langau	ST	2,000	1,150	2	1	0	0	а	а	а	а				а	b	а	с	-	-	b	с	а	b	а	b	d	а	-	-	d a	е	а
40. Medan Krio	Т	3,016	2,943	4	2	3	0	а	b	а	а		6	3	а	b	с	а	b	a	d	e	а	с	b	а	b	а	a	b	a d	d	а
41. Rantau Panjang	ST	2,309	2,309	3	1	0	0	с	с	а	а				а	b	а	с	а	b	b	с	f		с	b	d	а	-	-	a e	b	е
42. Pekan Kamis	ST	1,100	920	2	1	0	0	b	b	а	а				а	b	а	с	-	-	b	с	b	с	а		а	d	-	-		е	с
43. Secanggang	ST	1,400	1,319	2	2	3	0	а	b	а	а		6	3	а	b	а	а	b	а	а		а	b	b	с	b	d	a	b	a b	d	а
44. Paya Lobang	ST	1,558	1,263	5	1	1	1	с	а	а	а			2	а	с	а	с	-	-	с	b	а	с	а	с	d	а	-	-	а	а	с
45. Namu Sira-sira, Kr & Kn	Т	2,250	1,350	4	2	4	3 0 a b a a b a b a d e a c b a b a b a b a d e a c b a d e a c b a d e a c b a d e a b a c b a d e a b a c a b a d e a b													a c	b	а											
46. Namu Sira-sira Kanan	Т	4,100	3,953	4	2	4	0	а	b	а	а		11		а	с	с	а	b	а	b	a	е	b	а	d	b	а	b	a	a c	b	а
47. Bah Korah II	Т	1,995	1,723	5	1	1	1	с	d	a	a				a	b	a	b	a	b	b	b	a	b	b	с	b	d	b	d	c b	a	с
48. Sijambi	Т	1,013	885	1	1	1	0	а	а	а	а				а	b	а	с	-	-	b	с	b	f	b	с	а	b	-	-	a b	а	
49. Rambung Mera	Т	946	944	1	0	1	1	d	d	а	а				а	b	а	с	а	b	b	b	а	b	b	с	b	d	b	d	a c	а	с
50. Paya Sordang	Т	4,350	3,979	4	1	2	0	d	d	а	а	40			а	e	а	с			b	b	d	e	b	с	а	d			a c	а	d
								•	Inqui	ries ar	nd Cois	ses for	Answe	rs Emp	ployed	in the l	Invent	ory Su	rvey														
1. Agriculture Extension & In	stituti	ons						2. N	larketi	ng							3. (Constra	nints	*****	1st =	primary	/ constr	aint 2	2nd = se	condar	y cons	straint					
1.1 No. of PPLs working in the	DI or	deployed in	sub-distric	ts loca	ted in I	DI		2.1	Prevai	ling Pr	actices	for Ma	rketing	of pad	dy		3.1	Engin	eering ((Irrigati	on &	Drainag	ge)		3.4 1	Palawij	a & V	/egetab	e Ma	rketii	ıg		
1.2 No. of BPPs providing exte	ension	services in th	ne DI						a. Sold	l just af	fter har	vest at	field					a. Wat	ter shor	tage at	on-fai	m level	in dry	season	8	ı. Low	marke	eting pr	ices				
1.3 No. of KUDs in and around	the D	I							b. Sold	l paddy	/ after c	lrying						b. Poo	or drain	age					1	o. Unsta	able n	narketii	g pric	ces			
1.4 No. of KUD Mandiri amon	g KUl	Os in and aro	und the DI						c. Sold	after 1	nilling							c. Floo	oding						(. Limit	ed m	arket ou	tlet				
1.5 Accessibility to farm credit	s in th	e DI							d. Sold	l after s	storing							d. Poo	or O&M	1 at mai	n & 2	ry canal	ls		(l. Limi	ted ba	ırgainin	g pow	ver of	farmers		
1.5.1 Accessibility to farm	credit	by farmers in	n the DI						e. Othe	er								e. Poo	r O&M	l at terti	ary le	vel and	below		6	e. Poor	qualit	ty of pr	oducts	5			
 a. No difficulty to receiv 	e farm	credit						2.2	Prevai	ling ma	arketing	g chann	el of pa	addy in	DI			f. Othe	er						i	Low (comp	etitiven	ess wi	ith ot	her prodi	icing a	reas
 b. Some difficulty to receive 	eive fa	rm credit, bu	it can get						a. Pado	iy (gab	oah) to	collecto	or/midd	lemen											1	g. Othe	r						
 c. Very difficult to receive 	ve farn	n credit							b. Pade	iy (gat	oah) to	KUD					3.2	2 Agron	iomic						3.5 1	armer	Orga	nizatior	s (kel	lompo	⊃k tani/K	Γ)	
d. Almost no access to fa	arm cr	edit							c. Pade	iy (gab	oah) to i	rice mil	11					a. Farı	mers no	ot follov	ving r	ecomme	ended p	ractices	5 8	ı. Most	mem	bers are	not a	active	;		
1.5.2 Coverage of farm cree	dit in t	he DI							d. Rice	e (beras	s) to co	llector/	middle	men				b. Rat							1	o. Econ	omic	activiti	es are	limit	ed		
a. Over 70 % of farmers	suppo	rted by farm	credit	c. 2	0 - 40 9	% supp	orted		e. Othe	er								c. Pest	t & dise	eases					(c. Mana	igeria	l capac	ty of	KTs	are limite	d	
b. 40 - 70 % of farmers s	uppor	ted by farm c	credit	d. le	ess that	n 20% s	support	£ 2.3	Prevai	ling ma	arketing	g chann	el of pa	alawija	in DI			d. Oth	er						(i. No c	ollabo	oration	mong	g KT:	3		
1.6 Procurement of farm inputs	s (ferti	lizer/chemica	al)						a. Sold	to col	lector/r	niddler	nen				3.3	8 Paddy	Marke	ting					6	e. Other	ſ						
a. No difficulty to procure		b. Some dif	ficulty	c. Ver	ry difficult b. Sold at local market a. Low marketing prices 3.6 Extension																												
1.7 Procurement of quality see	ds		c. Sold to KUD b. Unstable marketing prices a. Implementation of extension programs is limite												iited																		
a. No difficulty to procure	rocure b. Some difficulty c. Very difficult e. Other c. Limited market outlet b. Shortage of operation funds of PPLs																																
1.8 Farmers Organizations								2.4	Availa	bility c	of Post-	harvest	Facilit	ies				d. Lin	nited ba	rgainin	g pow	er of fa	rmers			e. Exter	nsion	activiti	s of F	PPLs	are limit/	ed	
No. of Kelompok Tani form	ned in	the DI							Rice N	fills		a. Surj	plus b.	Enoug	h c. N	ot enou	gh	e. Poo	r qualit	ty of pro	oducts	:				i. Capa	bility	& expe	rience	es of	PPLs are	limited	d
No. of UPJA formed in the	DI								Storag	e Facil	ities	a. Eno	ugh b.	Not en	ough c	Not ex	isting	f. Othe	er							e. Other	r						
No. of KOPTAN formed in	No. of COPJA formed in the DI Storage Facilities a. Enough b. Not enough c. Not existing f. Other e. Other																																

Table A-4.2.12 Summary Sheet for Results of Inventory Survey on Agriculture Support Services and Agricultural Constraints : North Sumatra - 2/2

		Irrigation Scheme in	WUA	Establi	shment		WUA	Performa	ance and	Status	
	District	Study Area	Target	Estab-	Realized	Deve	loped	Under De	veloping	Not Yet I	Developed
		~~~~)	Tuiget	lished	Ratio (%)	BBH	SBH	BBH	SBH	BBH	SBH
1	Nias	Gido Sebua	5	5	100	0	0	5	0	0	0
2	Mandaling Natal	Batang Gadis	40	23	58	0	0	23	0	0	0
3	Tapanuli Selatan	Batang Ilung	40	40	100	0	0	40	0	0	0
4		Bik Sitonekon / N.S.	16	1	6	0	0	0	0	1	0
5		Siboma	1	1	100	0	0	1	0	0	0
6	Tapanuli Tengah	Siaili Tukka	3	3	100	0	0	3	0	0	0
7		Badiri Lopian	5	3	60	0	0	3	0	0	0
8		Pandurungan	4	3	75	0	0	3	0	0	0
9		Sihiong	3	1	33	0	0	1	0	0	0
10	Tapanuli Utara	Aek Silang	5	1	20	0	0	1	0	0	0
11		Sallura	4	1	25	0	1	0	0	0	0
12		Parmiahan Hatapung	4	1	25	0	0	0	0	1	0
13		Sinamo	4	0	0	0	0	0	0	0	0
14	Toba Samosir	Aek Mandosi I	4	2	50	0	0	2	0	0	0
15		Simangatasi II	6	6	100	0	0	6	0	0	0
16	Labuhan Batu	Bulung Ihit	5	5	100	0	0	0	5	0	0
17	Asahan	Perkotaan	10	9	90	0	3	6	0	0	0
18		Sungai Balai	12	10	83	0	0	7	3	0	0
19		Panca Arga	4	4	100	0	0	0	1	3	0
20		Serbangan	19	17	89	0	0	0	6	11	0
21		Silau Bonto	3	1	33	0	0	0	1	0	0
22		Sungai Silau	3	3	100	0	0	3	0	0	0
23		Padang Mahondang	2	1	50	0	0	0	0	1	0
24		Simujur	3	6	200	0	0	2	0	4	0
25		Purwodari	5	5	100	0	0	3	2	0	0
26	Simalunggun	Pentara	1	1	100	0	0	0	0	1	0
27		Simantin Pane Dame	0	0	0	0	0	0	0	0	0
28		Panambean / P.T. / B.K.	16	16	100	0	2	0	0	14	0
29		Raja Hombang / T.M	17	17	100	0	0	2	0	15	0
30		Kerasaan	27	27	100	0	0	19	0	8	0
31		Javacolonisasi / Pur.	22	22	100	0	3	10	0	9	0
32		Naga Sompah	7	7	100	0	0	3	0	4	0
33	Dairi	Risma Duma	6	1	17	0	0	0	0	1	0
34		Lae Ordi	6	1	17	0	0	1	0	0	0
35	Karo	Parit Lompaten	4	4	100	0	0	0	0	4	0
36	Deli Serdang	Bandar Sidoras	24	5	21	0	0	5	0	0	0
37		Nam Rambe	11	8	73	1	0	3	2	2	0
38		Sei Belutu	51	8	16	0	0	0	7	1	0
39		Langau	19	3	16	0	0	1	0	2	0
40		Medan Krio	29	7	24	0	1	0	5	1	0
41		Rantau Panjang	23	3	13	0	0	0	0	3	0
42		Pekan Kamis	12	2	17	0	0	0	2	0	0
43	Langkat	Secanggang	3	2	67	0	0	0	0	2	0
44	D. Serdang/T. Tinggi	Paya Lombang	13	2	15	0	0	2	0	0	0
45	Langkat/Binjai	Nam Sira-Sira Kiri	9	8	89	0	0	0	3	1	4
46	Langkat/Binjai	Nam Sira-Sira Kanan	10	5	50	0	0	0	3	0	2
47	Simalunggun/Siantar	Bah Korah II	9	4	44	0	0	4	0	0	0
48	Asahan/Tamjun Balai	Sijambi	4	1	25	0	0	0	0	1	0
49	Siantar/Simalunggun	Rambung Mera	1	1	100	0	0	1	0	0	0
50	T. Selatan/M. Natal	Paya Sordang	40	30	75	0	0	1	0	28	1
		Total	574	337	59	1	10	161	40	118	7

# Table A-4.2.13 Current Condition of WUA in Study Area : North Sumatra

Remarks SBH : Already registered in local court of justice

BBH : Not yet registered in local court of justice

#### Table A-5.2.1 Summary: Existing Condition and Development Plan: North Sumatra

							Exist	ting Condit	ion									Devel	opment Plan					
					Age of	Water	Resources Facili	ity		Canal and	Related Facili	ty	F	Terminal Facility and On Farm		Water Res	ources Facility		Canal and R	Related Facility	y		Terminal F On F	Facility and Farm
No.	Irrigation Scheme	District	Technical Level ¹⁾	Registered Area (ha)	Facility as of year 2003 (years)	Facility	Settling Basin	Condition	MC length	SC length	Nos. of Related	Conditio	n	Condition	Subject Area (ha)	Grade of	Settling Basin	Grade of R	ehabilitation	MC length	SC length	Nos. of Related	Land/C Develo (h	)n-farm opment 1a)
									(KIII)	(kiii)	(nos.)	MC S	с			Reliabilitation		МС	SC	(KIII)	(KIII)	(nos.)	Potential Area	Non- Potential Area
1	Gido Sebua	Nias	Т	1,258	11	Headworks	provided	В	2.702	11.590	40	D	D	С	883	RG2	minor rehabili.	RG4	RG4	1.891	8.113	33	883	-
2	Batang Gadis	Mandaling Natal	Т	6,628	11	Headworks	not provided	В	22.275	43.768	491	В	С	С	5,575	RG2	new construction	RG3 & RG4	RG3 & RG4	18.711	36.765	489	5,575	-
3	Batang Ilung	Tapanuli Selatan	Т	4,194	11	Headworks	provided	В	6.360	53.510	271	С	С	С	3,546	RG2	replacement	RG3 & RG4	RG3 & RG4	5.406	45.484	274	3,546	-
4	Blk Sitongkon/Napa Suron	Tapanuli Selatan	ST	1,012	27	Headworks	not provided	D	5.443	8.261	35	D	D	D	500	RG4	new construction	RG4	RG4	2.934	4.857	22	500	
5	Siborna	Tapanuli Selatan	ST	1,000	19	Headworks	not provided	D	7.426	5.131	19	D	D	D	950	RG4	new construction	RG4	RG4	8.169	6.157	23	950	
6	Siaili Tukka	Tapanuli Tengah	1	1,057	17	Headworks	not provided	D	1.783	6.432	26	D	U D	C	600	RG4	new construction	RG4	RG3 & RG4	1.016	3.666	17	600	
7	Badiri Lopian	Tapanuli Tengah	T	1,283	14	Free Intake	not provided	D	1.980	7.029	52	D	D	C	1 224	RG4	new construction	RG4	RG4	1.386	4.920	43	1 2 2 4	-
8	Pandurungan Siki-na-	Tapanuli Tengan	I	1,769	19	Headworks	not provided	D	2.265	20.284	22	D	D	C D	1,334	RG4	new construction	RG4	RG4	1.699	7.011	49	1,334	-
10	A ale Silong	Tapanuli Iltara	NI CT	2,000	19	Free Intelse	not provided	C	1.500	4.500	6	C		D	1 500	RG4	new construction	PC2 & PC4	RG4	1.650	5.400	23	1 500	324
10	Sepula	Tapanuli Utara	eT	1,500	15	Haadworks	not provided	C	0.024	4.500	6	D		D	1,500	RG3	new construction	PC4	RG4	1.030	2 294	0	1,500	-
12	Parmiahan Hutanaung	Tapanuli Utara	ST	1,092	10	Headworks	not provided	B	4 4 1 3	8.462	48	C	r i	D	1,092	RG2	new construction	RG3 & RG4	RG3 & RG4	4 854	10 154	63	1,092	-
13	Sinamo	Tapanuli Utara	ST	1,000	34	Headworks	not provided	D	0.825	7.620	7	C	D	D	930	RG4	new construction	RG4	RG4	0.908	9 1 4 4	42	930	
14	Aek Mandos I	Toba Samosir	ST	1,000	10	Headworks	not provided	C	0.360	4 944	15	B	D	D	1 059	RG3	new construction	RG3 & RG4	RG4	0.396	5 933	20	1 0 5 9	-
15	Simangatasi II	Toba Samosir	T	1 515	11	Headworks	not provided	Č.	4 658	3 754	23	C	C	C	1 514	RG3	new construction	RG3 & RG4	RG3 & RG4	4 658	3 754	27	1 514	-
16	Bulung Ihit	Labuhan Batu	Т	5.000	5	Headworks	provided	B	5.520	26.550	51	D	D	č	1.355	RG2	minor rehabili.	RG4	RG4	1.490	7.169	16	1.355	-
17	Perkotaan	Asahan	Т	3,457	14	Headworks	provided	В	19,580	40.403	125	С	с	В	3.446	RG2	large rehabili.	RG3 & RG4	RG3 & RG4	19.580	40.403	146	3.446	-
18	Sungai Balai	Asahan	ST	1,185	5	Headworks	not provided	C	3.339	8.267	35	D	D	C	1.130	RG3	new construction	RG4	RG4	3.673	9.920	46	1.130	-
19	Panca Arga	Asahan	Т	2.500	10	Headworks	not provided	С	0.157	7.500	21	D	D	D	2.500	RG3 2)	new construction	RG4	RG4	0.157	7.500	25	2.500	-
20	Serbangan	Asahan	т	2 333	10	Headworks	not provided	C	6 790	16 711	49	C	D	C	2 044	PG3 2)	new construction	RG3 & RG4	RG4	5.975	16 202	50	2.044	
20	Silau Ponto	Asaban	NT	2,000	10	Free Intake	not provided	D	0.000	0.000	0	D	D	D	2,011	PC4 2)	new construction	PC4	RG1	0.925	6.000	25	2,011	
21		Asaliali	OT	3,231	10	Free Intake	not provided	D	0.000	0.000	50	D	0	D	907	RG4	new construction	RO4	RO4	0.625	6.730	35	907	-
22	Sungai Silau	Asahan	SI	1,315	32	Free Intake	not provided	D	1.650	16.500	50	D	D	D	452	RG4 57	new construction	RG4	RG4	0.617	6.732	23	452	-
23	Padang Mahondang	Asahan	SI	3,231	22	Free Intake	not provided	D	3.5/5	9.225	24	D	D	D	2,905	RG4	new construction	RG4	RG4	3.539	9.963	28	2,905	-
24	Simujur Domoo da di	Asahan	SI	2,560	18	Free Intake	not provided	D	2.300	15.700	7	D	D	D	2,010	RG4	new construction	RG4	RG4	1.999	14.884	21	1,200	810
25	Purwodadi	Asanan	1 or	1,655	14	Headworks	not provided	C	12.9/2	12.362	148	D		C D	1,635	RG3	new construction	RG4	RG4	12.972	12.362	1/2	1,635	-
20	Simontin Bana Dama	Simalungun	NT	1,034	14	Free Intelse	provided pot provided	D	2.000	7.200	25	D		D	298	RG5 RG4	no renabili.	RG4	RG4	2 400	2.500	9	1 000	-
27	Panambean / Panet Tongah BK	Simalungun	T	1,000	14	Headworke	provided	B	6.350	14 746	300	C		C	1,000	RG4	no rehabili	RG3 & RG4	RG4	6 350	14 746	355	1,000	
20	Raia Hombang / T. Mangaraja	Simalungun	Т	2 045	9	Headworks	provided	B	22 280	10.800	230	C	D	D	2 023	RG2 RG2	no rehabili	RG3 & RG4	RG4	22 280	10.800	262	2 023	
30	Kerasaan	Simalungun	T	5 000	15	Headworks	provided	C	30 306	53 105	149	C	D	D	4 144	RG3	replacement	RG3 & RG4	RG4	25.154	44 077	144	4 1 4 4	-
31	Javacolonisasi/Purbogondo	Simalungun	T	1.030	14	Headworks	provided	B	11.280	4.050	96	C	D	C	1.015	RG2	minor rehabili.	RG3 & RG4	RG4	11.280	4.050	107	1.015	-
32	Naga Sompah	Simalungun	Ť	1,360	16	Free Intake	not provided	D	13.417	9.712	117	C	D	č	1,015	RG4	new construction	RG3 & RG4	RG4	10.063	7.284	101	1,015	-
33	Risma Duma	Dairi	ST	1,522	21	Headworks	not provided	С	0.000	0.000	0	D	D	D	1,522	RG3	new construction	RG4	RG4	2.265	22.128	65	1,522	-
34	Lae Ordi	Dairi	ST	1,200	14	Headworks	not provided	С	12.000	6.000	21	C	D	D	1,200	RG3	new construction	RG3 & RG4	RG4	13.200	7.200	26	607	593
35	Parit Lompaten	Karo	ST	1,242	20	Headworks	not provided	D	11.780	14.518	60	С	D	D	1,242	RG4	new construction	RG4	RG4	12.958	17.422	74	1,242	-
36	Bandar Sidoras	Deli Serdang	ST	3,457	18	Headworks	not provided	D	1.390	37.461	38	D	D	D	3,457	RG4	new construction	RG4	RG4	1.529	44.953	51	3,457	-
37	Namu Rambe	Deli Serdang	Т	1,036	37	Headworks	provided	D	5.790	11.036	88	D	D	D	1,036	RG4	replacement	RG4	RG4	5.790	11.036	99	1,036	
38	Sei Belutu	Deli Serdang	ST	5,082	40	Free Intake	not provided	D	0.250	25.750	21	D	D	D	5,076	RG4	new construction	RG4	RG4	0.275	30.900	28	5,076	-
39	Langau	Deli Serdang	ST	2,000	24	Free Intake	not provided	D	1.900	3.100	11	D	D	D	1,900	RG4	new construction	RG4	RG4	2.090	3.720	15	1,900	-
40	Medan Krio	Deli Serdang	Т	3,016	25	Headworks	provided	С	2.750	23.300	100	С	D	D	3,000	RG3	replacement	RG4	RG4	2.750	23.300	116	3,000	-
41	Rantau Panjang	Deli Serdang	ST	2,309	33	Headworks	not provided	D	0.000	0.000	4	D	D	D	2,309	RG4	new construction	RG4	RG4	6.790	16.711	57	2,309	
42	Pekan Kamis	Deli Serdang	ST	1,100	33	Free Intake	not provided	D	0.400	6.200	23	D	D	D	1,100	RG4	new construction	RG4	RG4	0.440	7.440	30	1,100	-
43	Secanggang	Langkat	ST	1,400	18	Free Intake	not provided	D	12.400	13.990	66	D	D	D	1,400	RG4	new construction	RG4	RG4	13.640	16.788	87	1,400	
44	Paya Lobang	Deli Serdan/Tebing Tinggi	ST	1,558	22	Headworks	not provided	C	4.900	5.400	22	D	D	D	1,558	RG3	new construction	RG4	RG4	5.390	6.480	29	1,558	
45	Namu Sira-sira Kiri	Langkat/Binjai	T	2,250	24	Headworks	provided	B	7.000	28.956	193	C	U	D	1,350	RG2	minor rehabili.	RG4	RG4	4.200	17.374	137	1,350	
46	Namu Sira-sira Kanan	Langkat/Binjai	T	4,100	24	Headworks	provided	В	2.700	47.266	322	C		C	3,953	RG2	minor rehabili.	RG4	RG4	2.700	47.226	386	3,953	-
4/	Ban Korah II	Simaiungun/Siantar	T	1,995	12	Headworks	provided	В	15.791	4.296	209	C		C	1,723	RG2	minor rehabili.	RG3 & RG4	RG4	13.580	3.695	203	1,723	-
48	Sijambi	Asahan/Tanjung Balai	Т	1,013	10	Free Intake	not provided	D	1.125	9.005	47	D	υ	С	1,008	RG4 3)	new construction	RG4	RG4	1.125	9.005	55	1,008	
49	Rambung Mera	P. Siantar/Simalungun	T	946	16	Headworks	provided	B	12.136	2.491	125	D	D	D	944	RG2	minor rehabili.	RG4	RG4	12.136	2.491	142	944	
50	Paya Sordang	apanuli Sel/Mandailing Natal	Т	4,350	11	Headworks	provided	В	13.076	24.700	288	C .	υ	C	4,350	RG2	minor rehabili.	RG3 & RG4	RG4	13.076	24.700		4,350	

Note: 1): T: Technical, ST: Semi-technical, NT: Non-technical 2): Water will be supplied from integrated headworks for Panca Arga, Serbangan, and Silau Bonto schemes.

3): Water will be supplied from integrated headworks for Sungai Silau and Sijambi schemes.

Condition: A: Functioning well, B: Partially deteriorated, C: Not functioning well, D: Serious condition for operation

Grade of rehabilitation: RG1: No rehabilitation, RG2: Minor rehabilitation, RG3: Large scale rehabilitation, RG4: Replacement or new construction

				Technical	Pagistars -	Subject Area	Aron Ingram+	Age of the	Wate	r Resources Fa	acility	Irrigation Syste	em Rehabilitat	ion Cost (milli	on Rp.)	On Form			Rehabilitatio
N	0.	Irrigation Scheme	District	Level 1)	Area (ha)	(ha)	(ha)	Facilities (years)	Dam/ Headworks	Settling Basin	Sub-total	Canals	Related Structures	Sub-total	Drainage Works	Develop- ment	Project Facilities	Total	Cost per ha (US\$/ha)
1	Ι.	Gido Sebua	Nias	Т	1,258	883	-375	11	1,183	449	1,632	8,611	1,697	10,308	1,031	1,810	1,260	16,041	2,19
2	2.	Batang Gadis	Mandaling Natal	Т	6,628	5,575	-1,053	11	272	3,572	3,843	49,300	20,679	69,979	6,998	11,429	2,590	94,838	2,05
3	3.	Batang Ilung	Tapanuli Selatan	Т	4,194	3,546	-648	11	232	2,554	2,786	38,329	12,519	50,848	5,085	7,269	1,570	67,559	2,30
4	4.	Blk Sitongkon/Napa Suron	Tapanuli Selatan	ST	1,012	500	-512	27	7,402	1,380	8,782	8,536	1,139	9,674	967	1,025	1,260	21,709	5,24
5	5.	Siborna	Tapanuli Selatan	ST	1,000	950	-50	19	8,935	1,497	10,432	17,359	1,344	18,702	1,870	2,129	1,260	34,394	4,373
e	5.	Siaili Tukka	Tapanuli Tengah	Т	1,057	600	-457	17	2,984	1,380	4,363	3,484	1,712	5,195	520	1,407	1,260	12,745	2,560
7	7.	Badırı Lopian	Tapanuli Tengah	T	1,283	899	-384	14	4,673	1,497	6,170	6,153	2,741	8,894	889	1,843	1,260	19,057	2,560
5	5.	Pandurungan	Tapanuli Tengan	I	1,769	1,554	-435	19	1,140	1,614	2,/54	15,946	4,/2/	20,674	2,067	2,888	1,260	29,644	2,684
1	7. 0	Siniong Aek Silang	Tapanuli Utara	ST	2,000	1 500	-1,221	19	1,084	2 084	5,181	5 942	3,732	6 935	1,143	5,559	1,260	20,579	3,100
1	1	Sarulla	Tapanuli Utara	ST	1,500	1,500	0	28	1,090	2,084	3,175	5,942	641	6 307	631	4 938	1,200	16 310	1,76
1	2	Parmiahan Hutanaung	Tapanuli Utara	ST	1,002	1,002	0	10	1,027	1 497	2 524	12 112	2 565	14 676	1 468	2 716	1,200	22 645	2 73
1	3	Sinamo	Tapanuli Utara	ST	1 000	930	-70	34	843	1 497	2,340	7 698	4 875	12,573	1,100	2 332	1,260	19 762	2,56
1	4.	Aek Mandos I	Toba Samosir	ST	1.060	1.059	-1	10	814	1.614	2,428	5.084	1,490	6.574	657	2,355	1,260	13.276	1.514
1	5.	Simangatasi II	Toba Samosir	Т	1,515	1,514	-1	11	1,027	2,084	3,112	8,669	1,530	10,199	1,020	3,104	1,260	18,694	1,49
1	6.	Bulung Ihit	Labuhan Batu	Т	5,000	1,355	-3,645	5	272	625	897	8,047	384	8,431	843	2,778	1,260	14,209	1,267
1	7.	Perkotaan	Asahan	Т	3,457	3,446	-11	14	1,376	1,277	2,653	62,483	3,842	66,325	6,633	7,119	1,570	84,300	2,955
1	8.	Sungai Balai	Asahan	ST	1,185	1,130	-55	5	1,183	1,614	2,797	12,707	1,153	13,861	1,386	2,317	1,260	21,620	2,31
1	9.	Panca Arga	Asahan	Т	2,500	2,500	0	10	52,328 2)	2,906	55,234	8,478	1,386	9,864	986	5,469	1,570	73,123	3,533
2	0.	Serbangan	Asahan	Т	2,333	2,044	-289	10	42,761 2)	2,374	45,136	18,948	5,394	24,342	2,434	4,190	1,570	77,672	4,590
2	1.	Silau Bonto	Asahan	NT	3,231	967	-2,264	10	20,171 2)	1,120	21,291	8,232	4,936	13,168	1,317	4,894	1,260	41,930	5,23
2	2.	Sungai Silau	Asanan	81 0T	1,315	452	-863	32	7,552 57	528	8,080	6,841	1,588	8,429	843	1,702	1,260	20,314	5,428
2	3. 1	Simulur	Asahan	51	3,231	2,905	-320	22	13,353	2,554	15,907	14,221	1,0/5	15,896	1,590	/,0/3	1,570	42,036	1,/40
. 2	4. 5	Purwodadi	Asahan	л Т	2,500	2,010	-550	10	1 270	2,084	3 354	24 815	7 319	32 134	3 213	4,550	1,370	43 313	3 200
2	6	Pentara	Simalungun	ST	1,034	298	-736	12	1,139	2,004	1 1 3 9	6 863	475	7 338	734	1 404	1,200	11 875	4 81
2	7	Simantin Pane Dame	Simalungun	NT	1 000	1 000	0	14	3 385	1 497	4 881	2,680	175	2,854	285	5 125	1,260	14 406	1,01
2	8.	Panambean / Panet Tongah BK	Simalungun	Т	1,723	1,722	-1	12	1,183	0	1,183	19,579	10,849	30,429	3,043	3,530	1,260	39,445	2,76
2	9.	Raja Hombang / T. Mangaraja	Simalungun	Т	2,045	2,023	-22	9	1,260	0	1,260	35,068	8,497	43,565	4,357	4,147	1,570	54,899	3,278
3	0.	Kerasaan	Simalungun	Т	5,000	4,144	-856	15	1,260	3,063	4,323	76,382	6,335	82,717	8,272	9,341	1,570	106,222	3,09
3	1.	Javacolonisasi/Purbogondo	Simalungun	Т	1,030	1,015	-15	14	1,144	484	1,628	14,505	5,206	19,712	1,971	2,081	1,260	26,651	3,172
3	2.	Naga Sompah	Simalungun	Т	1,360	1,015	-345	16	3,477	1,614	5,091	16,917	3,335	20,252	2,025	2,081	1,260	30,709	3,654
3	3.	Risma Duma	Dairi	ST	1,522	1,522	0	21	1,144	2,084	3,228	20,762	9,570	30,332	3,033	5,750	1,260	43,603	3,460
3.	4.	Lae Ordi	Dairi	ST	1,200	1,200	0	14	688	1,614	2,302	19,080	1,601	20,681	2,068	5,630	1,260	31,941	3,21
3.	5.	Parit Lompaten	Karo	ST	1,242	1,242	0	20	635	1,614	2,249	31,778	5,306	37,084	3,708	2,871	1,260	47,172	4,588
3	6. 7	Bandar Sidoras	Deli Serdang	51	3,457	3,457	0	18	10,171	2,554	12,725	52,665	5,132	57,797	5,780	7,597	1,570	85,468	2,980
3	/. o	Namu Rambe	Deli Serdang	I CT	1,036	1,036	0	37	814	1,614	2,428	18,106	4,300	22,472	2,247	2,124	1,260	50,532	3,500
3	o. 0	Langau	Deli Serdang	ST	2,082	3,076	-0	40	7,055	2 084	10,098	54,925	1,280	8 432	3,620	10,406	2,390	28.070	1,49
4	). 0	Medan Krio	Deli Serdang	Т	2,000	3,000	-100	24	825	2,034	3 379	28 435	7 100	35 534	3 5 5 3	6 3 2 5	1,200	50 362	2 025
4	1	Rantau Panjang	Deli Serdang	ST	2 309	2,309	-10	33	4 673	2,084	6 757	24 650	8 396	33 046	3 305	4 733	1,570	49 412	2,58
4	2.	Pekan Kamis	Deli Serdang	ST	1,100	1,100	0	33	4,257	1,614	5,871	8,146	1,428	9,574	957	2,347	1,260	20,010	2,19
4	3.	Secanggang	Langkat	ST	1,400	1,400	0	18	4,257	2,084	6,341	35,709	2,159	37,868	3,787	3,119	1,260	52,375	4,519
4	4.	Paya Lobang	Deli Serdan/Tebing Tinggi	ST	1,558	1,558	0	22	814	2,084	2,898	14,254	940	15,194	1,519	3,345	1,260	24,217	1,87
4	5.	Namu Sira-sira Kiri	Langkat/Binjai	Т	2,250	1,350	-900	24	460	625	1,085	20,507	4,686	25,193	2,519	2,768	1,260	32,825	2,93
4	6.	Namu Sira-sira Kanan	Langkat/Binjai	Т	4,100	3,953	-147	24	916	766	1,682	44,920	13,893	58,813	5,881	8,104	1,570	76,050	2,324
4	7.	Bah Korah II	Simalungun/Siantar	Т	1,995	1,723	-272	12	1,376	625	2,001	20,137	9,061	29,198	2,920	3,532	1,260	38,911	2,728
4	8.	Sijambi	Asahan/Tanjung Balai	Т	1,013	1,008	-5	10	21,054 3)	1,472	22,526	9,087	1,994	11,082	1,108	2,201	1,260	38,177	4,57
4	9.	Rambung Mera	P. Siantar/Simalungun	T	946	944	-2	16	1,318	449	1,768	21,227	5,347	26,574	2,657	1,935	1,260	34,194	4,375
5	U.	Paya Sordang	i apanuli Sel/Mandailing Natal	Т	4,350	4,350	0	11	1,376	919	2,295	37,191	14,655	51,847	5,185	9,108	1,570	70,004	1,944
		1 OTAL			107,183	90,550	-16,633	10	272,034	80,031	352,065	1,002,050	224,019	1,226,070	122,607	211,688	69,690	1,982,120	146,401
		Rn per ha				1,811		18	3 004	0.884	3 888	11.066	2 474	13 540	1 25/	2 2 2 8	0.770	21 800	2,644
		Itemized Total		T · 25					5.004	0.004	5.000	11.000	2.4/4	15.540	1.554	2.338	0.770	21.890	
				ST : 22															
				NT · 3															

## Table A-5.2.2 Irrigation System Rehabilitation Cost of the Schemes: North Sumatra

Note: 1): T: Technical, ST: Semi-technical, NT: Non-technical

2): Water will be supplied from integrated headworks for Panca Arga, Serbangan, and Silau Bonto schemes.

3): Water will be supplied from integrated headworks for Sungai Silau and Sijambi schemes.

Source: JICA Study Team for the Study on Comprehensive Recovery Program of Irrigation Agriculture

					Subj	ect Area for H	Rehabilitation	Plan						. (7. 1.7.			
	cal 1			I. Present/E	Before-project	Status (ha)			II. Wit	th-project Stat	us (ha)		Incre	ment (Land U	se Changes;	11 - 1 )	
	hni eve		A. Paddy fiel	d	Non I	Paddy Field (	gross)			Non-			Paddy Field			Non-	
Irrigation Scheme	E G					Un-	0)		Irrigated	irrigable			D : 0 1		Non Paddy	irrigable	
	-	Irrigated	Rainfed	Sub-total	Upland	cultivated	Sub-total	I otal	Paddy Field	Land	I otal	Irrigated	Rainfed	Sub-total	Field	Land	Total
	2/	Field	Field		Field	Land			5	3/		Field	Field			3/	
1. Gido Sebua	Т	883	0	883	0	0	0	883	883	0	883	0	0	0	0	0	0
2. Batang Gadis	Т	5,575	0	5,575	0	0	0	5,575	5,575	0	5,575	0	0	0	0	0	0
<ol><li>Batang Ilung</li></ol>	Т	3,546	0	3,546	0	0	0	3,546	3,546	0	3,546	0	0	0	0	0	C
<ol><li>Blk Sitongkon/Napa Suron</li></ol>	ST	500	0	500	0	0	0	500	500	0	500	0	0	0	0	0	0
5. Siborna	ST	595	355	5 950	0	0	0	950	950	0	950	355	-355	0	0	0	0
<ol><li>Siaili Tukka</li></ol>	Т	255	345	600	0	0	0	600	600	0	600	345	-345	0	0	0	0
<ol><li>Badiri Lopian</li></ol>	Т	899	0	899	0	0	0	899	899	0	899	0	0	0	0	0	0
8. Pandurungan	Т	1,034	300	1,334	0	0	0	1,334	1,334	0	1,334	300	-300	0	0	0	0
9. Sihiong	NT	0	255	5 255	0	524	524	779	622	157	779	622	-255	367	-524	157	0
10. Aek Silang	ST	200	500	700	0	800	800	1,500	1,260	240	1,500	1,060	-500	560	-800	240	0
11. Sarulla	ST	1,214	0	1,214	0	478	478	1,692	1,549	143	1,692	335	0	335	-478	143	0
12. Parmiahan Hutapaung	ST	200	700	900	0	100	100	1,000	970	30	1,000	7/0	-700	70	-100	30	(
13. Sinamo	SI	100	830	930	0	0	0	930	930	0	930	830	-830	0	0	0	
14 Aek Mandos I	51	999	0	999	0	60	60	1,059	1,041	18	1,059	42	0	42	-60	18	
15. Simangatasi II	I	1,514	0	1,514	0	0	0	1,514	1,514	0	1,514	0	0	0	0	0	
16. Bulung Init	I T	1,355	107	1,355	0	0	0	1,353	1,555	0	1,355	107	107	0	0	0	
17. Perkolaan	I CT	3,339	107	3,440	0	0	0	3,440	5,440	0	5,440	107	-107	0	0	0	
18. Sungai Balai	51	1,130	671	2,500	0	0	0	1,130	1,130	0	1,130	671	671	0	0	0	(
19. Falica Alga	T	2 044	0/1	2,300	0	0	0	2,300	2,300	0	2,300	0/1	-0/1	0	0	0	
20. Scroaligan	NT	2,044	0	2,044	0	047	047	2,04-	683	284	2,044	663	0	663	947	284	
21. Shau Bolito 22. Supgai Silau	ST	20	0	20	0	947	252	907	376	204	907	176	0	176	-947	204	
22. Sungai Shau 23. Padang Mahondang	ST	200	2 181	200	0	232	232	2 905	2 905	/0	2 905	2 181	-2 181	1/0	-232	/0	
24 Simulur	ST	1 200	2,101	2,005	0	0	0	2,900	2,903	0	2,000	2,101	-2,101	0	0	0	
25 Purwodadi	T	1,200	010	1 635	0	0	0	1.635	1 635	0	1 635	010	-010	0	0	0	0
26 Pentara	ST	40	0	40	0	258	258	298	221	77	298	181	0	181	-258	77	0
27 Simantin Pane Dame	NT	0	0	0	1 000	230	1 000	1 000	700	300	1 000	700	0	700	-1 000	300	0
28. Panambean / Panet Tongah BK	Т	1.722	Ő	1.722	1,000	0	1,000	1,000	1.722	0	1,000	0	0	0	1,000	0	Č
29 Raia Hombang / T. Mangaraja	T	2.023	0	2.023	0	0	0	2.023	2.023	0	2.023	0	0	0	0	0	C C
30. Kerasaan	Т	3,869	0	3.869	0	275	275	4,144	4.062	82	4.144	193	0	193	-275	82	0
31. J. Kolonisasi/Purbolonggo	Т	1,015	0	1,015	0	0	0	1,015	1,015	0	1,015	0	0	0	0	0	0
32. Naga Sompah	Т	1,015	0	1,015	0	0	0	1,015	1,015	0	1,015	0	0	0	0	0	0
33. Risma Duma	ST	0	800	800	722	0	722	1,522	1,305	217	1,522	1,305	-800	505	-722	217	C
34. Lae Ordi	ST	15	185	5 200	1,000	0	1,000	1,200	900	300	1,200	885	-185	700	-1,000	300	(
35. Parit Lompaten	ST	619	621	1,240	2	0	2	1,242	1,241	1	1,242	622	-621	1	-2	1	0
36. Bandar Sidoras	ST	2,462	995	3,457	0	0	0	3,457	3,457	0	3,457	995	-995	0	0	0	(
37. Namu Rambe	Т	1,036	0	1,036	0	0	0	1,036	1,036	0	1,036	0	0	0	0	0	0
38. Sei Belutu	ST	5,076	0	5,076	0	0	0	5,076	5,076	0	5,076	0	0	0	0	0	(
39. Langau	ST	1,150	750	1,900	0	0	0	1,900	1,900	0	1,900	750	-750	0	0	0	0
40. Medan Krio	Т	2,943	0	2,943	57	0	57	3,000	2,983	17	3,000	40	0	40	-57	17	0
41. Rantau Panjang	ST	2,309	0	2,309	0	0	0	2,309	2,309	0	2,309	0	0	0	0	0	0
42. Pekan Kamis	ST	920	180	1,100	0	0	0	1,100	1,100	0	1,100	180	-180	0	0	0	0
43. Secanggang	ST	1,319	0	1,319	81	0	81	1,400	1,376	24	1,400	57	0	57	-81	24	0
44. Paya Lobang	ST	1,263	295	1,558	0	0	0	1,558	1,558	0	1,558	295	-295	0	0	0	0
45. Namu Sira-sira Kiri	T	1,350	0	1,350	0	0	0	1,350	1,350	0	1,350	0	0	0	0	0	
46. Namu Sira-sira Kanan	T	3,953	0	3,953	0	0	0	3,953	3,953	0	3,953	0	0	0	0	0	
4/. Ban Korah II		1,/23	0	1,/23	0	0	0	1,723	1,/23	0	1,/23	0	0	0	0	0	
48. Sijambi	1 T	885	95	980	28	0	28	1,008	1,000	8	1,008	115	-95	20	-28	8	
49. Kambung Mera	1 T	2 070	271	944	0	0	0	44	944	0	4 250	271	271	0	0	0	
Ju. Paya Sordang		5,979	5/1	4,350	0	0	0	4,350	4,350	0	4,550	3/1	-3/1	0	0	0	
Total	1	72,620	11,346	83,966	2,890	3,694	6,584	90,550	88,576	1,974	90,550	15,956	-11,346	4,610	-6,584	1,974	

#### Table A-5.3.1 Agricultural Land Use Plan of the Subject Area: North Sumatra

 1/: Tree crops lands are excluded from the subject area for rehabilitation plan
 2/: Irrigation technical level before rehabilitation

 3/: Assuming non-paddy field (gross) converted to irrigated paddy field (net) 70 % & non-irrigable area 30% including right-of-ways

#### Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 1/7

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| 2. Cropped Area<br>- Irrigated Paddy ha<br>- Palawija 2/ ha<br>Total ha<br>3. 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Cropping Intensity 7/<br>- Irrigated Paddy %<br>- Palawija 2/ %<br>Total %<br>Overall to Subject Area %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     d. 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| 2. Cropped Area<br>- Irrigated Paddy ha<br>- Palawija 2/ ha<br>Total ha<br>3. Cropping Intensity 7/<br>- Irrigated Paddy %<br>- Palawija 2/ %<br>Overall to Subject Area %<br>4. Crop Yield<br>- Irrigated Paddy t/ha<br>- Palawija 2/ t/ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Non-Infi           Subjec           Wet           883           Wet           100           100           100           4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | igable Lai<br>t Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>88<br>1,589<br>Annual<br>170<br>100<br>180<br>Annual<br>4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Im. 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II<br>90<br>5,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,575<br>0,791<br>0,791<br>0,597<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,791<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,797<br>0,7 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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5                                                                                                                                        | dy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>177<br>177<br>Dry 1<br>0<br>5<br>5<br>5<br>5<br>Dry 1<br>5,0                                                                                                                                                                             | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>100<br>Dry II<br>5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>200<br>5<br>205<br>205<br>205<br>Annual<br>5.5                                                                                                                     | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
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Pa<br>Non-irri<br>Subjec<br>Wet<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ddy Field           rigable La           ct Area           Dry I           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D     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Pad<br>Non-irr<br>Subjec<br>Wet<br>6000<br>Wet<br>1000<br>1000<br>Wet<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ldy Field<br>igable Land<br>t Area<br>Dry I<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 600<br>hd<br>600<br>Dry II<br>300<br>600<br>0ry II<br>500<br>00<br>0ry II<br>5.00<br>5.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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Pac<br>Non-irri<br>Subjec<br>Wet<br>8999<br>Wet<br>1000<br>1000<br>Wet<br>5.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ldy Field<br>igable La:<br><i>t Area</i><br>Dry 1<br>0<br>0<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                            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| 2. Cropped Area<br>- Irrigated Paddy ha<br>- Palawija 2/ ha<br>Total ha<br>3. Cropping Intensity 7/<br>- Irrigated Paddy %<br>- Palawija 2/ %<br>Overall to Subject Area %<br>4. Crop Yield<br>- Irrigated Paddy t/ha<br>- Palawija 2/ t/ha<br>S. Crop Production                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Subject           Wet           883           Wet           100           100           Wet           4.5           Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | igable Lai<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>88<br>1,589<br>Annual<br>1700<br>180<br>180<br>Annual<br>4.5<br>-<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Inn. Pad<br>Non-inr:<br>Subject<br>Wet<br>5,575<br>5,575<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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I<br>(<br>0<br>0<br>Dry I<br>Dry I<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet                                                                                                                                 | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>177<br>177<br>Dry 1<br>0<br>5<br>5<br>5<br>5<br>Dry 1<br>5.0<br>Dry 1                                                                                                                                                                   | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>100<br>100<br>Dry II<br>5.5<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2000<br>5<br>2005<br>Annual<br>Annual                                                                                                                              | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ddy Field<br>igable La<br>ct Area<br>Dry I<br>100<br>100<br>Dry I<br>0<br>20<br>20<br>20<br>Dry I<br>0<br>5.0<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
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Pa<br>Non-irri<br>Subjee<br>Wet<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ddy Field<br>rigable La<br>ct Area<br>Dry I<br>Dry I<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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Pai<br>Non-irri<br>Subjec<br>Wet<br>8999<br>Wet<br>1000<br>1000<br>Wet<br>5.00<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                       
         | ldy Field<br>igable La:<br><i>Area</i><br>Dry 1<br>0<br>0<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>Dry 1<br>Dry 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Pac<br>Non-irri<br>Subjec<br>Wet<br>1,334<br>1,334<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                                                                                      | lay Field Lar<br>igable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
      | I,334<br>d<br>I,334<br>Dry II A<br>934<br>133<br>1,067<br>Dry II A<br>70<br>10<br>80<br>80<br>Dry II A<br>5.0<br>Dry II A<br>5.0<br>Dry II A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>Annual<br>2,268<br>133<br>2,401<br>Annual<br>170<br>180<br>180<br>Annual<br>5.0                                                                                                                                                                                                                                                                                                                                                    |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     5. Crop Production     - Irrigated Paddy ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Subject           Subject           Wet           883           Wet           100           100           000           Wet           3,974                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | igable Lai<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>88<br>1,589<br>Annual<br>170<br>10<br>180<br>Annual<br>4.5<br>-<br>-<br>Annual<br>6,755                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Intr. 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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503                                                                                                                       | ldy Field<br>igable Laar<br>1 Area<br>Dry I<br>177<br>177<br>Dry I<br>0<br>5<br>5<br>5<br>5<br>Dry I<br>5<br>0<br>Dry I<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                    | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2000<br>5<br>5<br>205<br>205<br>205<br>Annual<br>5.5<br>-<br>Annual<br>39,006                                                                                      | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>2,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ddy Field<br>igable La<br>27 Area<br>Dry I<br>100<br>100<br>Dry I<br>0<br>200<br>200<br>Dry I<br>0<br>5.0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pa/<br>Non-irri<br>Subjee<br>Wet<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>4,275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ddy Field<br>rigable La<br>ct Area<br>Dry I<br>Dry I<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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Pai<br>Non-irr<br>Subjec<br>Wet<br>899<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>4,495                                                                                                                                                                                                                                                                                                                                                                                                                                                   
         | ldy Field<br>igable La:<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,334<br>00<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>6,670                                                                                                                                                                        | lay Field Lar<br>igable Lar<br>t Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                          
      | I,334           d           J.334           Dry II           934           133           1,067           Dry II           A           70           10           80           80           80           5.0           5.0           Dry II           4,670                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>Annual<br>2,268<br>133<br>2,401<br>Annual<br>170<br>180<br>180<br>Annual<br>5,0<br>-<br>Annual<br>11,340                                                                                                                                                                                                                                                                                                                           |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Subject           Subject           Wet           883           Wet           100           100           000           Wet           3,974                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | igable Lai<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | nd<br>883<br>Dry II<br>618<br>618<br>888<br>706<br>Dry II<br>700<br>100<br>800<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                                                                                    | ha<br>ha<br>Annual<br>1,501<br>888<br>1,589<br>Annual<br>1700<br>1800<br>Annual<br>4,50<br>0<br>-<br>Annual<br>6,755<br>0<br>4400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Im. Pad<br>Non-im: Subjec<br>Wet<br>5,575<br>Wet<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>27,875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irr<br>Subjece<br>Wet<br>3,546<br>Wet<br>100<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                                                                                    | ldy Field<br>igable Lait<br><i>Area</i><br>Dry I<br>177<br>Dry I<br>0<br>5<br>5<br>5<br>Dry I<br>5.0<br>Dry I<br>0<br>0<br>885                                                                                                                                                               | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>100<br>Dry II<br>5,5<br>Dry II<br>19,503<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>7,092<br>1777<br>7,269<br>Annual<br>2000<br>5<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2                                                                                                    | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>2,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ddy Field<br>igable La<br>t Area<br>Dry I<br>1000<br>Dry I<br>0 0<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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Par<br>Non-irr<br>Subject<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>4,275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ddy Field           rigable La.           ct Area           Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pai<br>Non-irr<br>Subjec<br>Wet<br>899<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>4,495                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ldy Field<br>igable La:<br><i>t Area</i><br>0ry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    
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Pać<br>Non-irri<br>Subjec<br>Wet<br>1,334<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>6,670                                                                                                                                                                             | lay Field day Field Lart 4 Area Dry I 0 0 Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1,334           d           1,334           Dry II           A           934           133           1,067           Dry II           A           70           10           80         
 80           Dry II           A           5.0           Dry II           4,670           665                                                                                                                                                                                                                                                                                                                                                                                                   | ha<br>ha<br>2,268<br>133<br>2,401<br>Annual<br>170<br>10<br>180<br><i>I</i> 80<br>Annual<br>11,340<br>665                                                                                                                                                                                                                                                                                                                                      |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy ton     - Priagwija 2/ toha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6 Ay PadaW Yield 6/ tiba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Wet           883           Wet           100           100           Wet           4.5           Wet           3,974                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | igable Lai<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | nd<br>883<br>Dry II<br>618<br>888<br>7066<br>Dry II<br>700<br>100<br>800<br>800<br>007 II<br>4.5<br>5.0<br>Dry II<br>2,781<br>440                                                                                 | ha<br>ha<br>Annual<br>1,501<br>888<br>1,589<br>Annual<br>1700<br>100<br>1800<br>Annual<br>4.5<br>0<br>-<br>-<br>Annual<br>6,755<br>0<br>440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Im. Pad<br>Non-im: Subjec<br>Wet<br>5,575<br>Wet<br>100<br>100<br>Wet<br>5,0<br>Wet<br>27,875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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II<br>5,00<br>5,00<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50<br>0,50 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Pac<br>Non-irr<br>Subjece<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503                                                                                                                      | ldy Field<br>igable Lait<br><i>Area</i><br>Dry I<br>177<br>Dry I<br>0<br>5<br>5<br>5<br>Dry I<br>5.0<br>Dry I<br>0<br>0<br>885                                                                                                                                                               | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>100<br>Dry II<br>5,5<br>Dry II<br>19,503<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2000<br>5<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2                                                                                                     | Irri, Pac<br>Non-irr<br>Subjece<br>Wet<br>500<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>2,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subject<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>4,275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ddy Field<br>rigable La.<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                      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Pac<br>Non-irr<br>Subjec<br>Wet<br>600<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>3,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ldy Field<br>igable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 600<br>ad<br>600<br>Dry II<br>300<br>60<br>360<br>Dry II<br>5.0<br>Dry II<br>5.0<br>Dry II<br>1,500<br>300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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Pac<br>Non-irr<br>Subjece<br>Wet<br>899<br>Wet<br>1000<br>1000<br>1000<br>Wet<br>5.0<br>Wet<br>4,495                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ldy Field<br>igable La:<br>t Area<br>0ry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                        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| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Wet           883           Wet           100           00           000           Wet           4.5           Wet           3,974           Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | igable Lai<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | nd<br>883<br>Dry II<br>618<br>888<br>706<br>Dry II<br>0700<br>100<br>800<br>Dry II<br>4.5<br>5.0<br>Dry II<br>2.781<br>0440<br>440                                                                                | ha<br>ha<br>Annual<br>1,501<br>888<br>1,589<br>Annual<br>0 170<br>100<br>180<br>180<br>Annual<br>6,755<br>0 440<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Inn. Pad<br>Non-irri<br>Subjec<br>Wet<br>5,575<br>Wet<br>100<br>100<br>100<br>Wet<br>27,875<br>27,875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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I<br>(<br>C<br>(<br>C<br>(<br>C<br>(<br>Dry I<br>)<br>Dry I<br>(<br>C<br>(<br>C<br>(<br>C<br>(<br>C<br>(<br>C)<br>(<br>C)<br>(<br>C)<br>(<br>C)<br>(                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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II<br>5,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00<br>1,00 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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Palawija                                                                                                           | ldy Field<br>igable Lai<br>7 Area<br>Dry 1<br>1777<br>1777<br>Dry 1<br>0<br>5<br>5<br>5<br>Dry 1<br>0<br>0<br>7<br>5<br>0<br>0<br>0<br>0<br>8855<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                        | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>100<br>100<br>Dry II<br>19,503<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>7,092<br>1777<br>7,269<br>Annual<br>2005<br>2005<br>2005<br>Annual<br>39,006<br>8885<br>5.5<br>e (hybrid)                                                                                             | Irri, Pac<br>Non-irr<br>Subjece<br>Wet<br>500<br>Wet<br>100<br>100<br>100<br>Wet<br>2,500<br>Wet<br>2,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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ha<br>ha<br>ha<br>Annual<br>1,000<br>1,100<br>Annual<br>200<br>220<br>220<br>Annual<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Irri.
Pa<br>Non-irr<br>Subject<br>Wet<br>950<br>950<br>950<br>950<br>950<br>000<br>Wet<br>4.5<br>4.275<br>4.275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ddy Field           rigable La.           ct Area           Dry I           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0    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                                                                                                                | Irri. Pad<br>Non-irr<br>Subjec<br>Wet<br>600<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>3,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 600<br>nd<br>600<br>Dry II<br>300<br>600<br>0ry II<br>500<br>100<br>600<br>0ry II<br>5.00<br>Dry II<br>1,500<br>3000<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
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                                                                                                                                                                                                                                                                                                                                                        | ldy Field<br>igable La:<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 96     - Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Irrigated Paddy     - Irrigated P | Subject           Subject           Wet           883           Wet           100           100           Wet           3,974                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | igable Lat<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | nd<br>883<br>Dry II<br>618<br>888<br>706<br>Dry II<br>070<br>100<br>800<br>800<br>070<br>100<br>800<br>070<br>100<br>800<br>070<br>100<br>800<br>070<br>100<br>800<br>100<br>800<br>100<br>100<br>800<br>100<br>1 | ha<br>ha<br>Annual<br>1,501<br>888<br>1,589<br>Annual<br>0 170<br>100<br>180<br>Annual<br>6,755<br>440<br>-<br>440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Im. Pad<br>Non-irri<br><i>Subjec</i><br>Wet<br>5,575<br>Wet<br>1000<br>1000<br>Wet<br>5,0<br>Wet<br>27,875<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Palawija                                                                                                           | ldy Field<br>igable Lai<br>7 Area<br>Dry 1<br>177<br>177<br>Dry 1<br>0<br>5<br>5<br>5<br>Dry 1<br>0<br>0<br>5<br>5<br>5<br>Dry 1<br>0<br>0<br>5<br>5<br>0<br>ry 1<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                             | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>100<br>100<br>Dry II<br>19,503<br>0<br>0<br>0<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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ha<br>ha<br>Annual<br>7,092<br>1777<br>7,269<br>Annual<br>2005<br>2005<br>2005<br>2005<br>Annual<br>39,006<br>8855<br>5.5<br>e (hybrid)                                                                                     | Irri, Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>2,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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ha<br>ha<br>ha<br>Annual<br>1,000<br>1,100<br>Annual<br>220<br>220<br>Annual<br>5,000<br>5,000<br>5,000<br>5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pa<br>Non-irr<br>Subject<br>Wet<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.5<br>4.275<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ddy Field<br>rigable La.<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                      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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,334<br>Ut<br>1,334<br>Wet<br>100<br>100<br>100<br>Wet<br>6,670<br>Wet<br>6,670                                                                                                                                                     | lay Field Lar<br>igable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,334           d           1,334           Dry II           A           934           133           1,067           Dry II           A           70           10           80           80           80           5.0           5.0           5.0           665           -           I by maize (I                                                                                                                                                                                                                                                                                                                                                                                    | ha<br>ha<br>ha<br>2,268<br>133<br>2,401<br>Annual<br>170<br>180<br>Annual<br>5.0<br>                                                                                                                                                                                                                                                                                                                                                           |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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II<br>25,090<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1,395<br>1 | na<br>ha<br>ha<br>Annual<br>10,593<br>2799<br>10,872<br>Annual<br>190<br>5<br>195<br>195<br>195<br>Annual<br>52,965<br>1,395<br>1,395<br>1,395<br>5.0<br>c (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Palawija                                                                                                           | ldy Field<br>igable Lai<br>' Area<br>Dry 1<br>177<br>177<br>177<br>0ry 1<br>0<br>5<br>5<br>5<br>5<br>0ry 1<br>0<br>0<br>885<br>-<br>-<br>represente<br>ddy Field                                                                                                                             | 3,346<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>1000<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2000<br>5<br>205<br>205<br>Annual<br>39,006<br>885<br>5.5<br>e (hybrid)<br>ha                                                                                      | Irri, Pac<br>Non-irr<br>Subject<br>Wet<br>500<br>Wet<br>100<br>100<br>100<br>Wet<br>2,500<br>Wet<br>2,500<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                      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ha<br>ha<br>ha<br>Annual<br>1,000<br>1,100<br>Annual<br>2200<br>2200<br>2200<br>Annual<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,0000<br>5,0000<br>5,0000<br>5,00000000                                                                                                                                                                                                                                                           
                                                                                                                                                               | Irri. Pa<br>Non-irri<br>Subje-<br>Wet<br>950<br>950<br>Wet<br>100<br>100<br>Wet<br>4.27<br>Wet<br>4.275<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ddy Field<br>rigable La<br>ct Area<br>Dry 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Pac<br>Non-irr<br>Subjec<br>Wet<br>600<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>3,000<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ldy Field<br>igable Lau<br>' Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 600<br>ad<br>600<br>Dry II<br>300<br>60<br>00<br>Dry II<br>5.0<br>0<br>Dry II<br>1,500<br>300<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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Pa<br>Non-irr<br>Subjeed<br>Wet<br>899<br>Wet<br>100<br>100<br>100<br>Wet<br>4,495<br>Palawija<br>Irri, Pa                                                                                                                                                                                                                                                                                                                                                                                                                                            | ldy Field<br>igable La:<br>' Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                        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899<br>nd<br>899<br>90<br>719<br>0719<br>0700<br>0700<br>800<br>0700<br>800<br>0700<br>800<br>0701<br>0<br>5.00<br>0701<br>0<br>5.00<br>0701<br>0<br>5.00<br>0701<br>0<br>5.00<br>0701<br>0<br>5.00<br>0701<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wet           883           Wet           883           Wet           100           0           0           0           0           0           0           0           0           0           100           Wet           3,974           -           Palawija           Irri. Pad           Subject           Wet                                                                                                                                                                                                                                                                                                           | igable La:<br>t Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,500<br>888<br>1,589<br>Annual<br>1700<br>1800<br>Annual<br>4.5<br>4.755<br>Annual<br>6,755<br>4400<br>4.5<br>6,755<br>4400<br>4.5<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>6,755<br>7,757<br>6,755<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,757<br>7,7577<br>7,7577<br>7,75777<br>7,7577777777 | Im. Pad<br>Non-irrr<br>Subjec<br>Wet<br>5,575<br>5,575<br>Wet<br>100<br>100<br>100<br>Wet<br>27,875<br>27,875<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ha<br>ha<br>ha<br>10,593<br>279<br>10,872<br>Annual<br>1900<br>5<br>1955<br>Annual<br>52,965<br>1,395<br>5.0<br>c (hybrid)<br>ha<br>ha<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                             | ldy Field<br>igable Lai<br>' Area<br>Dry I<br>177<br>Dry I<br>177<br>Dry I<br>5<br>5<br>5<br>5<br>Dry I<br>0<br>885<br>-<br>-<br>represente<br>idy Field<br>' Area<br>Dry I<br>0<br>885                                                                                                      | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>1000<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2000<br>5<br>205<br>205<br>Annual<br>39,006<br>885<br>5.5<br>e (hybrid)<br>ha<br>ha<br>Annual                                                                      | Irri, Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>2,500<br>Wet<br>2,500<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ddy Field<br>igable La<br>iz Area<br>Dry I<br>1000<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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maiz<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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Pa<br>Non-irr<br>Subjee<br>Wet<br>950<br>Wet<br>100<br>Wet<br>4.5<br>Palawija<br>Irri. Pa<br>Subjee<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ddy Field ddy Field La<br>ct Area<br>Dry I<br>D<br>0 0 0<br>Dry I<br>0 0 0<br>0 0 0<br>Dry I<br>5 0 0<br>0 0 0<br>0 0 0<br>0 0 0 0<br>Dry I<br>5 0 0<br>0 0 0<br>0 0 0<br>0 0 0<br>0 0 0<br>0 0 0<br>0 0 0 0<br>0 0 0 0<br>0 0 0 0 0 0<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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4,557777777777777777777777777777777777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irr<br>Subjeed<br>Wet<br>6000<br>Wet<br>1000<br>1000<br>Wet<br>5.00<br>Palawija<br>Irri. Pad<br>Subjeed<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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Pa<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                    | ldy Field<br>igable La:<br><i>t</i> Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
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Pac<br>Non-irri<br>Subjece<br>Wet<br>1,334<br>Wet<br>100<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>6,670<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                                                                    | dy Field<br>gable Lara<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,534<br>d<br>1,334<br>Dry II A<br>934<br>133<br>1,067<br>Dry II A<br>70<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ha<br>ha<br>ha<br>Annual<br>2,268<br>133<br>2,401<br>Annual<br>170<br>180<br>Annual<br>11,340<br>665<br>5.0<br>(hybrid)<br>ha<br>ha<br>Annual                                                                                                                                                                                                                                                                                                  |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Total %     Overall to Subject Area %     4. Crop Yield     - Inrigated Paddy ton     - Palawija 2/ t/ha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wet           883           Wet           883           Wet           1000           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100 | igable La:<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | nd                                                                                                                                                                                                                | ha<br>haa<br>Annual<br>1,501<br>888<br>1,589<br>1,589<br>1,589<br>1,589<br>1700<br>1800<br>1800<br>1800<br>1800<br>Annual<br>6,755<br>(hybrid)<br>ha<br>ha<br>haa<br>Annual<br>168                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Inn. Fac<br>Non-irrr<br>Subjec<br>Wet<br>5,575<br>5,575<br>Wet<br>100<br>100<br>100<br>Wet<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,875<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,975<br>27,9 | dy Field<br>ig able La<br>jable La<br>i Area<br>Dry I<br>(<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,373<br>nd<br>5,575<br>Dry II<br>5,018<br>279<br>5,297<br>Dry II<br>90<br>5<br>95<br>975<br>077<br>II<br>25,090<br>1,395<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | na<br>ha<br>ha<br>Annual<br>10,593<br>279<br>10,872<br>Annual<br>190<br>5<br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>1395</i><br><i>1,395</i><br><i>1,395</i><br><i>5,0</i><br><i>c</i> (hybrid)<br>ha<br><i>ha</i><br><i>ha</i><br><i>1,119</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>0<br>0                                                            | ldy Field<br>igable Lar<br>i Area<br>Dry I<br>177<br>177<br>Dry I<br>0<br>5<br>5<br>5<br>5<br>Dry I<br>0<br>885<br>-<br>-<br>represente<br>dy Field<br>i Area<br>Dry 1<br>0<br>0<br>885<br>-<br>-                                                                                            | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>200                                                                                                        | Irri, Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>2,500<br>Palawija<br>Irri, Pac<br>Subjec<br>Wet<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pa<br>Subjee<br>Wet<br>00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ddy Field<br>rigable La<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
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Pac<br>Non-irri<br>Subjece<br>Wet<br>1,334<br>U-334<br>U-334<br>U-00<br>U-00<br>Wet<br>5.0<br>U-00<br>Wet<br>5.0<br>U-00<br>U-00<br>U-00<br>U-00<br>U-00<br>U-00<br>U-00<br>U-                                                                                           | ldy Field<br>dy Field<br>f Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
      | 1,334           d           1,334           Dry II           A           1,067           Dry II           A           70           Dry II           A           60           007           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           10           10           80           80           80           80           5.0           5.0           5.0           10           10           10           11           10           11           11                                                             | ha<br>ha<br>ha<br>Annual<br>2,2668<br>133<br>2,401<br>Annual<br>170<br>10<br>180<br>                                                                                                                                                                                                                                                                                                                                                           |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 9%     - Valawija 2/ 9%     - Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     - Cropped Area     - Pady ha     - Others ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Subject           Wet           883           Wet           1000           0           0           Wet           4.5           Wet           3,974           Palawija           Irri. 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Pad<br>Subjec<br>Wet<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Irri. Pac<br>Subjec<br>Wet<br>0                                                                             | ldy Field<br>igable Lat<br>7 Area<br>Dry 1<br>177<br>Dry 1<br>0<br>5<br>5<br>5<br>5<br>0<br>ry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                              | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>1000<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>7,092<br>177<br>7,269<br>Annual<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>200                                                                                                            | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>2,500<br>Wet<br>2,500<br>Wet<br>2,500<br>Urri. Pac<br>Subjec<br>Wet<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ddy Field<br>igable La<br>at Area<br>Dry 1<br>1000<br>Dry 1<br>0 0<br>200<br>200<br>200<br>200<br>200<br>200<br>5.00<br>Dry 1<br>0 500<br>404<br>Field<br>ct Area<br>Dry 1<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                          
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Pa<br>Non-irr<br>Subjee.<br>Wet<br>950<br>Wet<br>100<br>Wet<br>4.5<br>Wet<br>4.275<br>Palawija<br>Irri. Pa<br>Subjee.<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ddy Field           rigable La           Dry I           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D           D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
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Pad<br>Non-irr<br>Subjec<br>Wet<br>600<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>3,000<br>Wet<br>3,000<br>Wet<br>3,000<br>Wet<br>3,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0<br>Wet<br>0,000<br>Wet<br>0<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0,000<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>0<br>Wet<br>W | dy Field           igable Lange           t Area           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                      | 600<br>ad<br>600<br>Dry II<br>3000<br>600<br>Dry II<br>1,500<br>600<br>Dry II<br>1,500<br>3000<br>-<br>d by maiz<br>3455<br>0<br>Dry II<br>1,72<br>600                                                                                                                                                                                                                                         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Pa<br>Subjet<br>Wet<br>899<br>Wet<br>1000<br>1000<br>1000<br>Wet<br>5.00<br>Wet<br>4,495<br>4,495<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ldy Field<br>igable Las<br>7 Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pac<br>Non-irri<br>Subjece<br>Wet<br>1,334<br>1,334<br>Wet<br>100<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>6,670<br>Palawija<br>Irri. Pac<br>Subjece<br>Wet<br>0                                                                                                     | dy Field           dy Field           gable Lara           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                 | 1,334           d           1,334           Dry II           934           133           1,067           1,067           0           0ry II           80           80           80           80           80           0ry II           4,670           665           0           1 by maize (1           300           0           Dry II           44,670           1 by maize (1           300           0           1 by maize (1           310                                                                                                                                                                                                                                     | ha<br>ha<br>ha<br>2,268<br>133<br>2,401<br>4Annual<br>170<br>10<br>10<br>180<br>4Annual<br>111,340<br>665<br>5.0<br>(hybrid)<br>ha<br>ha<br>ha<br>4Annual<br>111,340<br>4Annual<br>111,340<br>665                                                                                                                                                                                                                                              |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha     - Others ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Wet           883           883           Wet           100           100           Wet           3,974                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | igable La:<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>88<br>1,589<br>Annual<br>170<br>10<br>180<br>Annual<br>6,755<br>440<br>4.5<br>e (hybrid)<br>ha<br>ha<br>Annual<br>168<br>88<br>88<br>88<br>88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Inn. Fac<br>Non-irri<br>Subjec<br>Wet<br>5,575<br>Wet<br>100<br>Wet<br>27,875<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | na<br>ha<br>ha<br>Annual<br>10,593<br>279<br>10,872<br>Annual<br>190<br>5<br>195<br>195<br>Annual<br>52,965<br>1,395<br>5.0<br>c (hybrid)<br>ha<br>ha<br>Annual<br>1,119<br>279<br>1,398                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>100<br>100<br>Wet<br>19,503<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>0                                                                               | ldy Field<br>igable Lar<br>7 Area<br>Dry 1<br>177<br>177<br>177<br>07 1<br>0<br>5<br>5<br>5<br>Dry 1<br>5<br>5<br>0<br>ry 1<br>5<br>5<br>0<br>ry 1<br>0<br>0<br>885<br>-<br>represente<br>ddy Field<br>7 Area<br>0<br>177<br>7<br>177<br>0<br>0<br>177<br>177<br>0<br>0<br>177<br>177<br>177 | 3,346<br>nd<br>3,546<br>Dry II<br>3,546<br>0<br>0<br>0<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>2000<br>5<br>2005<br>2005<br>2005<br>2005<br>2005<br>Annual<br>39,006<br>8885<br>5.5<br>e (hybrid)<br>ha<br>ha<br>Annual<br>980<br>1777<br>1,157                   | Irri, Pac<br>Non-irri<br>Subjec<br>Wet<br>500<br>Wet<br>100<br>100<br>Wet<br>2,500<br>Wet<br>2,500<br>Irri, Pac<br>Subjec<br>Wet<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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II<br>2,500<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                          | ddy Field           rigable La           ct Area           Dry I           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                             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         | dy Field           igable La:           igable La:           igable La:           if Area           Dry I           0           Dry I           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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ha<br>ha<br>ha<br>1,528<br>90<br>1,618<br>4,000<br>1,618<br>4,000<br>1,618<br>4,000<br>1,000<br>1,000<br>1,000<br>4,000<br>1,000<br>4,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000    | Irri. Pac<br>Non-irri<br>Subjece<br>Wet<br>1,334<br>1,334<br>Wet<br>100<br>100<br>100<br>Wet<br>5,00<br>Wet<br>6,670<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>0                                                                                                            | dy Field           dy Field           gable Large           T Area           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0            0           0                                                                                                                                                                                                                                                               
      | 1,334           d           1,334           Dry II           934           133           1,067           Dry II           A           70           10           Dry II           80           80           80           0           Dry II           4,670           665           1           10           665           0           0           0           0           10           10           10           80           80           80           80           665           1           10           10           10           10           10           10           11           11           12           13           13           13           13           13           14 | ha<br>ha<br>Annual<br>2.268<br>2.401<br>133<br>2.401<br>170<br>180<br>180<br>180<br>180<br>180<br>180<br>4<br>Annual<br>11,340<br>665<br>5.0<br>(hybrid)<br>ha<br>ha<br>Annual<br>414<br>413<br>3.547<br>5.47                                                                                                                                                                                                                                  |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     S. Crop Production     - Irrigated Paddy ton     - Palawija 2/ tha     S. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     G. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     I. Land Use     _ Paddy ha     - Others ha     Total ha     Total ha     - Cropping Intensity 7/     Paddy     //                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Subject           Wet           883           883           Wet           100           100           Wet           4.5           Wet           3,974           Trri. Pad           Subjec           Wet           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                   | igable La:<br>t Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>1,500<br>1,500<br>1,580<br>Annual<br>1,80<br>Annual<br>4,50<br>4,40<br>4,50<br>4,40<br>4,50<br>4,50<br>4,40<br>4,50<br>4,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Inri. Pad<br>Non-irri<br>Subjec<br>Wet<br>5,575<br>Wet<br>100<br>Wet<br>5,075<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>27,875<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>0<br>Vet<br>Vet<br>0<br>Vet<br>Vet<br>Vet<br>Vet<br>Vet<br>Vet<br>Vet<br>Vet<br>Vet<br>Vet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | udy rield           Transport           0ry I           0ry I <td< td=""><td>3,3/3           nd           5,575           Dry II           5,018           279           Dry II           90           5,297           Dry II           90           5,018           95           97           Dry II           25,000           1,395           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0</td><td>na<br/>ha<br/>ha<br/>Annual<br/>10,593<br/>2799<br/>2797<br/>10,872<br/>5<br/>1055<br/>1955<br/>1955<br/>1955<br/>1955<br/>1955<br/>1955<br/>19</td><td>Irri. Pac<br/>Non-irr<br/>Subjec<br/>Wet<br/>3,546<br/>Wet<br/>100<br/>Wet<br/>5.5<br/>Wet<br/>19,503<br/>Irri. Pac<br/>Subjec<br/>Wet<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Idy Field<br/>igable Law<br/>T Area<br/>Dry 1<br/>177<br/>Dry 1<br/>0<br/>5<br/>5<br/>Dry 1<br/>5.0<br/>Dry 1<br/>5.0<br/>Dry 1<br/>5.0<br/>Dry 1<br/>5.0<br/>Dry 1<br/>5.0<br/>Dry 1<br/>5.0<br/>Dry 1<br/>177<br/>177<br/>177<br/>Dry 1<br/>177<br/>177<br/>177<br/>177<br/>177<br/>177<br/>177<br/>1</td><td>3,546<br/>nd<br/>3,546<br/>Dry II<br/>3,546<br/>Dry II<br/>100<br/>0<br/>0<br/>100<br/>Dry II<br/>19,503<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>ha<br/>ha<br/>Annual<br/>7,092<br/>177<br/>7,269<br/>Annual<br/>200<br/>5<br/>205<br/>205<br/>Annual<br/>5.5<br/>C<br/>Annual<br/>39,006<br/>8855<br/>c (hybrid)<br/>ha<br/>ha<br/>ha<br/>Annual<br/>980<br/>177<br/>Annual<br/>980<br/>177<br/>Annual</td><td>Irri, Pada Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Subject<br/>Palawija<br/>Irri,
Padawija<br/>Urri, Padawija<br/>Urr</td><td>day Field<br/>day Field<br/>igable La<br/><i>ct Area</i><br/>Dry 1<br/>1000<br/>Dry 1<br/>0 0<br/>200<br/>200<br/>Dry 1<br/>0 0<br/>0 200<br/>0 200<br/>0 200<br/>0 200<br/>0 200<br/>0 200<br/>0 200<br/>0 0 000<br/>0 0 0000<br/>0 0 0000<br/>0 0 0000<br/>0 0 0000<br/>0 0 0000<br/>0</td><td>5000<br/>nd<br/>500<br/>Dry II<br/>500<br/>Dry II<br/>100<br/>100<br/>100<br/>Dry II<br/>5.C<br/>2,500<br/>C<br/>0<br/>0<br/>0<br/>0<br/>0<br/>Dry II<br/>100<br/>0<br/>Dry II<br/>100<br/>0<br/>Dry II<br/>100<br/>0<br/>0<br/>Dry II<br/>100<br/>0<br/>Dry II<br/>100<br/>0<br/>Dry II<br/>100<br/>0<br/>Dry II<br/>100<br/>0<br/>Dry II<br/>100<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>ha<br/>ha<br/>ha<br/>Annual<br/>1,000<br/>1,100<br/>200<br/>220<br/>220<br/>Annual<br/>5,00<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,000<br/>5,0000<br/>5,0000<br/>5,0000<br/>5,00000000</td><td>Irri; Paz           Subjei           Wet           9550           Wet           9550           Wet           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000</td><td>ddy Field           irgable La           irgable La           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0</td><td>950<br/>nd<br/>950<br/>957<br/>957<br/>957<br/>957<br/>957<br/>957<br/>957<br/>957<br/>957<br/>957</td><td>ha<br/>ha<br/>ha<br/>Annual<br/>955<br/>1,4225<br/>1,520<br/>Annual<br/>0 150<br/>0 100<br/>160<br/>Annual<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,414<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>6,413<br/>7,415<br/>6,413<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,415<br/>7,4</td><td>Irri: Pac<br/>Non-irr<br/>Subjec<br/>600<br/>600<br/>Wet<br/>100<br/>100<br/>Wet<br/>5.0<br/>Wet<br/>3,000<br/>Wet<br/>7<br/>Palawija<br/>Irri: Pac<br/>Subjec<br/>Wet<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>dy Field<br/>igable Large<br/>T Area<br/>Dry I<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>6000<br/>Dry III<br/>3600<br/>Dry III<br/>500<br/>Dry III<br/>500<br/>000<br/>Dry III<br/>5.00<br/>3000<br/>3000<br/>3000<br/>3000<br/>3000<br/>3000<br/>3000</td><td>ha<br/>ha<br/>ha<br/>Annual<br/>9000<br/>600<br/>9600<br/>Annual<br/>150<br/>1600<br/>Annual<br/>5.0<br/>-<br/>-<br/>Annual<br/>4,500<br/>3000<br/>-<br/>0<br/>c (hybrid)<br/>ha<br/>ha<br/>Annual<br/>172<br/>600<br/>2322<br/>Annual</td><td>Irn. Par<br/>Non-irn<br/>Subjee<br/>8999<br/>8999<br/>8999<br/>8999<br/>8999<br/>8999<br/>8999<br/>8</td><td>dy Field<br/>igable Laz<br/><i>T Area</i><br/>Dry 1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>899 nd 899 nd 899 899 899 899 899 90 90 90 90 90 90 90 90 90 100 800 00 00 800 Dry II 9 3,145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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201</td><td>ha<br/>ha<br/>ha<br/>2,268<br/>133<br/>2,401<br/>170<br/>170<br/>180<br/>180<br/>180<br/>180<br/>4nnual<br/>5.00<br/>(hybrid)<br/>ha<br/>ha<br/>4nnual<br/>111,340<br/>665<br/>650<br/>(hybrid)<br/>ha<br/>ha<br/>2,50<br/>111,340<br/>665<br/>5.0<br/>5.0<br/>5.0<br/>5.0<br/>5.0<br/>5.0<br/>5.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>5.0<br/>7.0<br/>7.0<br/>7.0<br/>7.0<br/>7.0<br/>7.0<br/>7.0<br/>7.0<br/>7.0<br/>7</td></td<> | 3,3/3           nd           5,575           Dry II           5,018           279           Dry II           90           5,297           Dry II           90           5,018           95           97           Dry II           25,000           1,395           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0          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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Irri. Pac<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Idy Field<br>igable Law<br>T Area<br>Dry 1<br>177<br>Dry 1<br>0<br>5<br>5<br>Dry 1<br>5.0<br>Dry 1<br>5.0<br>Dry 1<br>5.0<br>Dry 1<br>5.0<br>Dry 1<br>5.0<br>Dry 1<br>5.0<br>Dry 1<br>177<br>177<br>177<br>Dry 1<br>177<br>177<br>177<br>177<br>177<br>177<br>177<br>1                       | 3,546<br>nd<br>3,546<br>Dry II<br>3,546<br>Dry II<br>100<br>0<br>0<br>100<br>Dry II<br>19,503<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ha<br>ha<br>Annual<br>7,092<br>177<br>7,269<br>Annual<br>200<br>5<br>205<br>205<br>Annual<br>5.5<br>C<br>Annual<br>39,006<br>8855<br>c (hybrid)<br>ha<br>ha<br>ha<br>Annual<br>980<br>177<br>Annual<br>980<br>177<br>Annual | Irri, Pada Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Subject<br>Palawija<br>Irri, Padawija<br>Urri, Padawija<br>Urr | day Field<br>day Field<br>igable La<br><i>ct Area</i><br>Dry 1<br>1000<br>Dry 1<br>0 0<br>200<br>200<br>Dry 1<br>0 0<br>0 200<br>0 200<br>0 200<br>0 200<br>0 200<br>0 200<br>0 200<br>0 0 000<br>0 0 0000<br>0 0 0000<br>0 0 0000<br>0 0 0000<br>0 0 0000<br>0 | 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ha<br>ha<br>ha<br>Annual<br>1,000<br>1,100<br>200<br>220<br>220<br>Annual<br>5,00<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,000<br>5,0000<br>5,0000<br>5,0000<br>5,00000000 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Par<br>Non-irn<br>Subjee<br>8999<br>8999<br>8999<br>8999<br>8999<br>8999<br>8999<br>8                                                                                                                                                                                                                              
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     0         0           0         0                                                                                                                                                                                          | 1,534           d           1,334           Dry II           934           133           1,067           Dry II           A           70           10           Dry II           80           80           Dry II           80           0           Dry II           4,670           665           0           0           0           0           0           0           0           0           144           133           547           Dry II           414           133           547           201                                                                                                                                                                            | ha<br>ha<br>ha<br>2,268<br>133<br>2,401<br>170<br>170<br>180<br>180<br>180<br>180<br>4nnual<br>5.00<br>(hybrid)<br>ha<br>ha<br>4nnual<br>111,340<br>665<br>650<br>(hybrid)<br>ha<br>ha<br>2,50<br>111,340<br>665<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>7.0<br>5.0<br>7.0<br>5.0<br>7.0<br>5.0<br>7.0<br>5.0<br>7.0<br>5.0<br>7.0<br>5.0<br>7.0<br>5.0<br>7.0<br>7.0<br>7.0<br>7.0<br>7.0<br>7.0<br>7.0<br>7.0<br>7.0<br>7 |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Total %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy ton     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha     3. Cropping Intensity 7/     - Paddy %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Wet           \$883           883           883           883           Wet           100           100           100           100           100           100           100           100           100           100           100           100           Wet           3.974           Subjec           Palawija           Irri. Padawija           Irri. Padawija           0           0           0           0           0           0           0           0                                                                                                                                                        | gable La.<br>1 Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>88<br>Annual<br>170<br>100<br>180<br>Annual<br>4.5<br>0<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Inn: Fac<br>Non-irr:<br>Subjec<br>Wet<br>5,575<br>Wet<br>100<br>Wet<br>27,875<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>Wet<br>5.5<br>Wet<br>19,503<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0                                          | ldy Field<br>igable Law<br>7 Area<br>Dry 1<br>1777<br>Dry 1<br>0<br>5<br>5<br>5<br>5<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7                                                                                                                              | 3,349<br>dd<br>3,546<br>3,546<br>3,546<br>3,546<br>0,000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 9%     - Palawija 2/ 9%     - Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Padayija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     - Cropped Area     - Paddy ha     - Others ha     Total ha     3. Cropping Intensity 7/     - Paddy %     - Others %     - Others %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wet           \$subject           Wet           \$883           \$883           Wet           100           100           100           100           100           100           100           100           100           100           100           100           100           Wet           3,974           Palawija           Palawija           Palawija           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           49           49                                                 | gagble La.<br>1. Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                             | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,5011<br>1700<br>180<br>180<br>180<br>180<br>180<br>180<br>Annual<br>6,755<br>440<br>4.5<br>e (hybrid)<br>ha<br>ha<br>88<br>88<br>256<br>Annual<br>168<br>88<br>6,755<br>9<br>440<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>9<br>4.5<br>8<br>7<br>8<br>9<br>4.5<br>8<br>7<br>8<br>9<br>4.5<br>8<br>7<br>8<br>9<br>4.5<br>8<br>7<br>8<br>9<br>7<br>8<br>9<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7                                                                                                                                                                                                                                                                                | Inri. Pad<br>Non-irri<br>Subjec<br>Wet<br>5,575<br>Wet<br>100<br>100<br>100<br>100<br>Wet<br>27,875<br>Palawija<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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na<br>ha<br>ha<br>Annual<br>10,593<br>20792<br>Annual<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pac<br>Subjec<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | ldy Field<br>igable Law<br>7 Area<br>Dry 1<br>177<br>Dry 1<br>0<br>5<br>5<br>5<br>5<br>0<br>7<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                      | 3,340<br>3,546<br>Dry III<br>3,546<br>Dry 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(hybrid)<br/>ha<br/>ha<br/>ha<br/>172<br/>60<br/>232<br/>Annual<br/>172<br/>0<br/>0<br/>0<br/>10<br/>0<br/>10<br/>0<br/>10<br/>0<br/>10<br/>0<br/>10<br/>0<br/>10<br/>0</td><td>Irri, Par Subject<br/>Subject Subject<br/>Subject Subject<br/>Subject Subject<br/>Subject Subject<br/>Subject Subject<br/>Inri, Par<br/>Subject<br/>Vect<br/>Palawija<br/>Urri, Par<br/>Subject<br/>Vect<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O<br/>O</td><td>Idy Field<br/>igable Las<br/>r Area<br/>Dry 1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>899           nd           899           Dry II           629           90           719           Dry II           0           700           0           0           800           0           0           0           0           0           0           0           0           0           0           0           0           0         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Pac<br/>Non-irr<br/>Subjece<br/>Wet<br/>1,334<br/>1,334<br/>Wet<br/>100<br/>100<br/>100<br/>100<br/>100<br/>Wet<br/>5.0<br/>Wet<br/>6,670<br/>Wet<br/>6,670<br/>Irri. Pac<br/>Subjece<br/>Wet<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>dy Field         dy Field           gable Large         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0</td><td>1,334           d           1,334           Dry II      
    A           934           133           1,067           Dry II           A           70           10           00           010           80           80           80           0ry II           4,670           665           00           0ry II           4,670           665           00           00           01           020           0300           0           0           133           547           Dry II           4144           133           547           20           10           30</td><td>ha<br/>ha<br/>Annual<br/>2,268<br/>2,401<br/>Annual<br/>170<br/>170<br/>180<br/>180<br/>Annual<br/>11,340<br/>Annual<br/>11,340<br/>665<br/>5.0<br/>(hybrid)<br/>ha<br/>ha<br/>Annual<br/>414<br/>133<br/>547<br/>Annual<br/>200<br/>100</td></t<></td></t<> | 9500<br>nd<br>950<br>970 Dry II<br>975 0<br>95<br>975 0<br>95<br>975 0<br>975 0<br>9 | ha<br>ha<br>ha<br>Annual<br>5 1,4225<br>Annual<br>0 1500<br>1500<br>1600<br>1600<br>Annual<br>5 44.5<br>6 44.5<br>6 44.5<br>6 44.5<br>6 44.5<br>6 44.5<br>6 44.5<br>6 475<br>6 475<br>5 570<br>Annual<br>1500<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Paa<br>Non-irri<br>Subjece<br>Wet<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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Dry III 500<br>100 Dry III 500<br>3000 Dry III 172<br>3455<br>0 Dry III 172<br>600<br>600<br>600<br>600<br>600<br>600<br>600<br>600<br>600<br>60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>Annual<br>9000<br>600<br>960<br>Annual<br>150<br>160<br>160<br>160<br>Annual<br>4,500<br>300<br>5.0<br>c (hybrid)<br>ha<br>ha<br>ha<br>172<br>60<br>232<br>Annual<br>172<br>0<br>0<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0                                                      | Irri, Par Subject<br>Subject Subject<br>Subject Subject<br>Subject Subject<br>Subject Subject<br>Subject Subject<br>Inri, Par<br>Subject<br>Vect<br>Palawija<br>Urri, Par<br>Subject<br>Vect<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O                                                                                                                                                                                                                                                                 | Idy Field<br>igable Las<br>r Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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     0           0           0           0           0           0           0           0           0           0           0           0 <t< td=""><td>ha<br/>ha<br/>ha<br/>ha<br/>ha<br/>ha<br/>1,528<br/>90<br/>90<br/>1,618<br/>180<br/>180<br/>180<br/>180<br/>180<br/>180<br/>180<br/>180<br/>180<br/>1</td><td>Irri. Pac<br/>Non-irr<br/>Subjece<br/>Wet<br/>1,334<br/>1,334<br/>Wet<br/>100<br/>100<br/>100<br/>100<br/>100<br/>Wet<br/>5.0<br/>Wet<br/>6,670<br/>Wet<br/>6,670<br/>Irri. Pac<br/>Subjece<br/>Wet<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>dy Field         dy Field           gable Large         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0</td><td>1,334           d           1,334           Dry II           A           934           133           1,067           Dry II           A           70           10           00           010           80           80           80           0ry II           4,670           665           00           0ry II           4,670           665           00           00           01           020           0300           0           0           133           547           Dry II           4144           133           547           20           10           30</td><td>ha<br/>ha<br/>Annual<br/>2,268<br/>2,401<br/>Annual<br/>170<br/>170<br/>180<br/>180<br/>Annual<br/>11,340<br/>Annual<br/>11,340<br/>665<br/>5.0<br/>(hybrid)<br/>ha<br/>ha<br/>Annual<br/>414<br/>133<br/>547<br/>Annual<br/>200<br/>100</td></t<>                                                                                                                                                                                                                                                                                 | ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>1,528<br>90<br>90<br>1,618<br>180<br>180<br>180<br>180<br>180<br>180<br>180<br>180<br>180<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                          | Irri. Pac<br>Non-irr<br>Subjece<br>Wet<br>1,334<br>1,334<br>Wet<br>100<br>100<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>6,670<br>Wet<br>6,670<br>Irri. Pac<br>Subjece<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | dy Field         dy Field           gable Large         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0                                                                                                                                                                        | 1,334           d           1,334           Dry II           A           934           133           1,067           Dry II           A           70           10           00           010           80           80           80           0ry II           4,670           665           00           0ry II           4,670           665           00           00           01           020           0300           0           0           133           547           Dry II           4144           133           547           20           10           30                                                                                                               | ha<br>ha<br>Annual<br>2,268<br>2,401<br>Annual<br>170<br>170<br>180<br>180<br>Annual<br>11,340<br>Annual<br>11,340<br>665<br>5.0<br>(hybrid)<br>ha<br>ha<br>Annual<br>414<br>133<br>547<br>Annual<br>200<br>100                                                                                                                                                                                                                                |
| 2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     · Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha     Total ha     3. Cropping Intensity 7/     - Paddy %     - Others ha     - Paddy %     - Others %     - Others %     - Paddy Production ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number           Stubjeet           Wet           883           883           Wet           100           100           Wet           3,974           Palawija           Irri. Pad           Subjeet           Wet           3,974           O           Urri. Padawija           Irri. Pad           Subjeet           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           49           -           -                 | ggable La.<br>t Area<br>Dry I<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | nd                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>1,501<br>1,589<br>Annual<br>101700<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Inn. Fac<br>Non-irri<br>Subjec<br>Wet<br>5,575<br>Wet<br>100<br>Wet<br>27,875<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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  0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,3/3<br>nd<br>5,575<br>Dry II<br>5,018<br>279<br>5,297<br>Dry II<br>5,00<br>5,00<br>5,00<br>5,00<br>5,00<br>5,00<br>5,00<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | na<br>ha<br>ha<br>Annual<br>10,593<br>279<br>20,502<br>20,502<br>10,872<br>10,872<br>10,872<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10,572<br>10, | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>3,546<br>Wet<br>100<br>Wet<br>5,5<br>Wet<br>19,503<br>Irri. Pac<br>Subjec<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                   | ldy Field igable Law Area<br>T Area<br>Dry 1<br>177<br>177<br>177<br>177<br>Dry 1<br>0<br>5<br>5<br>5<br>0<br>0<br>0<br>885<br>-<br>represente<br>ldy Field<br>7 Area<br>Dry 1<br>0<br>5<br>5<br>0<br>0<br>177<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                             | 3,349<br>3,346<br>Dry III<br>3,546<br>Dry III<br>1000<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | na<br>ha<br>ha<br>Annual<br>2000<br>5<br>205<br>205<br>205<br>205<br>205<br>205<br>205<br>205                                                                                                                               | Irr. Pace           Subject           Source           Source           Source           Wet           1000           Wet           1000           Wet           1000           Wet           1000           Wet           2.5000           Wet           Palawija           Irri. Pace           Subject           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | day Field<br>igable La<br><i>et Area</i><br>Dry 1<br>1000<br>Dry 1<br>0 0<br>200<br>200<br>200<br>5.00<br>Dry 1<br>5.00<br>5.00<br>5.00<br>400<br>500<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri, Pa<br>Subjeu<br>9550<br>Wet<br>1000<br>1000<br>1000<br>Wet<br>4.2<br>7<br>8<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ddy Field           irgable La           ct Area           Dry I           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9500<br>nd<br>950<br>Dry II<br>952<br>9577<br>955<br>955<br>10<br>66<br>60<br>00<br>Dry II<br>974<br>14<br>2,138<br>45<br>5.6.6<br>60<br>00<br>Dry II<br>2,138<br>45<br>0<br>0<br>Dry II<br>14<br>2,138<br>45<br>5<br>707<br>10<br>Dry II<br>95<br>95<br>777<br>0<br>Dry II<br>97<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri Paz Subject<br>Subject Subject<br>Wet<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dy Field           igable Land           Area           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 | 6000<br>Dry III 300<br>3600<br>Dry III 300<br>3600<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>ha<br>Annual<br>9000<br>600<br>960<br>Annual<br>150<br>160<br>Annual<br>4,500<br>3000<br>-<br>60<br>(hybrid)<br>ha<br>ha<br>ha<br>Annual<br>172<br>600<br>232<br>Annual<br>010<br>010<br>0<br>100<br>2,106                                                                                                           | Irn, Para           Non-irri           Subjeed           899           Wet           1000           1000           1000           Wet           1000           Wet           1000           Wet           1000           Wet           1000           Wet           101: Parawija           Irri: Parawija           1rri: Parawija           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 | Idy Field           igable Last           if Area           Dry 1           0           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 <td>899           nd           899           Dry II           629           90           719           Dry II           0           700           100           800           800           800           800           800           800           800           90           90           90           90           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0<td>ha<br/>ha<br/>ha<br/>Annual<br/>1,528<br/>90<br/>90<br/>1,618<br/>Annual<br/>7,640<br/>450<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>449<br/>450<br/>4490<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td><td>Irri. Pac<br/>Non-irri<br/>Subjece<br/>Wet<br/>1,334<br/>1,334<br/>Wet<br/>100<br/>100<br/>100<br/>Wet<br/>6,670<br/>Wet<br/>6,670<br/>Wet<br/>6,670<br/>Urri. Pac<br/>Subjece<br/>Wet<br/>0<br/>0<br/>Wet<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>dy Field           dy Field           gable Lan           t Area           Dry 1           0           0           0       
   0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0</td><td>1,534           d           1,334           Dry II           934           133           1,067           Dry II           A           70           10           Dry II           80           80           80           0           Dry II           4,670           665           10           10           665           300           0           0ry II           414           13           547           Dry II           4133           547           10           10           10           10</td><td>ha<br/>ha<br/>Annual<br/>2,268<br/>3133<br/>2,401<br/>Annual<br/>1700<br/>10<br/>10<br/>180<br/>180<br/>180<br/>180<br/>665<br/>50<br/>6<br/>50<br/>6<br/>50<br/>6<br/>50<br/>6<br/>50<br/>6<br/>50<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7</td></td> | 899           nd           899           Dry II           629           90           719           Dry II           0           700           100           800           800           800           800           800           800           800           90           90           90           90           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 <td>ha<br/>ha<br/>ha<br/>Annual<br/>1,528<br/>90<br/>90<br/>1,618<br/>Annual<br/>7,640<br/>450<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>5.0.0<br/>449<br/>450<br/>4490<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40<br/>40</td> <td>Irri. Pac<br/>Non-irri<br/>Subjece<br/>Wet<br/>1,334<br/>1,334<br/>Wet<br/>100<br/>100<br/>100<br/>Wet<br/>6,670<br/>Wet<br/>6,670<br/>Wet<br/>6,670<br/>Urri. Pac<br/>Subjece<br/>Wet<br/>0<br/>0<br/>Wet<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>dy Field           dy Field           gable Lan           t Area           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0</td> <td>1,534           d           1,334           Dry II           934           133           1,067           Dry II           A           70           10           Dry II           80           80           80           0           Dry II           4,670           665           10           10           665           300           0           0ry II           414           13           547           Dry II           4133           547           10           10           10           10</td> <td>ha<br/>ha<br/>Annual<br/>2,268<br/>3133<br/>2,401<br/>Annual<br/>1700<br/>10<br/>10<br/>180<br/>180<br/>180<br/>180<br/>665<br/>50<br/>6<br/>50<br/>6<br/>50<br/>6<br/>50<br/>6<br/>50<br/>6<br/>50<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7<br/>8<br/>7</td> | ha<br>ha<br>ha<br>Annual<br>1,528<br>90<br>90<br>1,618<br>Annual<br>7,640<br>450<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>449<br>450<br>4490<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pac<br>Non-irri<br>Subjece<br>Wet<br>1,334<br>1,334<br>Wet<br>100<br>100<br>100<br>Wet<br>6,670<br>Wet<br>6,670<br>Wet<br>6,670<br>Urri. Pac<br>Subjece<br>Wet<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                         | dy Field           dy Field           gable Lan           t Area           Dry 1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 | 1,534           d           1,334           Dry II           934           133           1,067           Dry II           A           70           10           Dry II           80           80           80           0           Dry II           4,670           665           10           10           665           300           0           0ry II           414           13           547           Dry II           4133           547           10           10           10           10                                                                                                                                                                                  | ha<br>ha<br>Annual<br>2,268<br>3133<br>2,401<br>Annual<br>1700<br>10<br>10<br>180<br>180<br>180<br>180<br>665<br>50<br>6<br>50<br>6<br>50<br>6<br>50<br>6<br>50<br>6<br>50<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7                                                                                                                                                                      |

AT - 35

1/: Paddy grown under rainfed condition in irrigated field 2/: Palawija in irrigated field 3/: Palawija in upland field 4/: Cropping intensity in each land use category; Irri. Paddy Field, in rainfed field & upland field, respectively and overall to subject area 5/: Irrigation performances --- Cropping intensity of irrigated paddy & palawija in irrigated field; not including paddy grown under rainfed conditions 6/: Overall annual average paddy yield (annual paddy production ÷ annual total cropped area of paddy) 7/: Cropping intensity in irrigated field

#### Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 2/7

District	Тара	anuli Teng	gah - cont	inued	1							Tapanı	uli Utara									Toba S	amosir		To	ba Samosi	ir - contim	ued		L.F	atu	-
Irrigation Scheme		9. Sil	hiong	-	1	10. Ael	k Silang	·		11. S	arulla		12.	Parmiaha	in Hutapa	ung		13. S	inamo			14. Aek 1	Mandos I			15. Sima	ngatasi II	·		16. Bult	ing Ihit	
I. Present/Before Project			0				200	1			1.014				200				100				000	1			1 514				1.255	1
1. Land Use	Irri. Pado	ly Field	255	ha	Irri. Padd	y Field	200	ha	Irri. Pade	dy Field	1,214	ha	Irri. Padd	y Field	200	ha	Irri. Pade	dy Field	100	ha	Irri. Padd	y Field	999	ha	Irri. Pado	ry Field	1,514	ha	Irri. Padd	y Field	1,355	ha
	Lincultive	addy Field	524	ha	Lincultive	ated L and	1 800	ha	Lincultix	addy Field	478	ha	Lincultiv	ated L and	100	ha	Lincultiv	addy Field	1 850	ha	Lincultive	addy Field	60	ha	Lincultiv	addy Field		ha	Lincultive	ady Field		ha
	Subject	ated Land	779	ha	Subjec	t Area	1.500	ha	Subje	ct Area	1.692	ha	Subjec	t Area	1.000	ha	Subjec	ct Area	930	ha	Subjec	t Area	1.059	ha	Subject	t Area	1.514	ha	Subjec	t Area	1.355	ha
<ol><li>Cropped Area</li></ol>	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Irrigated Paddy ha				0	200			200	764	4	164	928	200			200	100	)		100	999			999	800			800	1,355		678	2,033
<ul> <li>Paddy (Rainfed) 1/</li> </ul>				0	,			0	450			450				0				0				0	714			714				0
- Palawija 2/ ha				0		'	20	20	<b> </b>			0			40	40			10	10				0	)			0				0
- Rainfed Paddy ha	255			255	500	'	<u> </u>	500	<u>+</u>	<b> </b> '	—	0	700		<b> </b> '	700	830	)		830				0	2			0	<u> </u>			0
- Palawija 3/ ha	255	0	0	255	700		20	720	1.21/		164	1 279	000	0	40	040	020	0	10	040	000	0	0	000	1 514	0	0	1 5 1 4	1 255	0	679	2 022
3 Cronning Intensity 4/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	1,214 Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Drv I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Drv II	Annual	1,555 Wet	Dry I	Dry II	Annual
- Irrigated Paddy %	mer	Dij i	Diji		100	0	0 0	100	63	5 0	14	76	100	0	0	100	100	0 0	0	100	100	0	0	100	53	0	0	53	100	0	50	150
- Paddy (Rainfed) 1/ %					0	0	) 0	0	37	/ 0	0	37	0	0	0	0	0	0 0	0	0	0	0	0	0	47	0	0	47	0	0	0	0
- Palawija 2/ %					0	0	) 10	10	C	) 0	. 0	. 0	0	0	20	20	0	) 0	10	10	0	0	0	0	0 0	0	0	0	. 0	0	0	0
Irrigated Field 5/ %					100	0	10	110	63	, 0	14	76	100	0	20	120	100	0 0	10	110	100	0	0	100	53	0	0	53	100	0	50	150
- Rainfed Paddy %	100			100	100			100	<b> </b>		$\square$	l'	100		<b> </b> '	100	100	)		100								!				L
- Palawija 3/ %	22	0	0		47			40	71		10	01	00		<u> </u>		100			101	0.4	0			100		0	100	100	0	50	1.50
Overall to Subject Area %	35 Wat	Dry I	Dry II	55 Appuol	4/ Wat	Dry I	Dry II	48	Wat 12	Drul	Dry II	81 Appugl	90 Wat	Dry I	Dry II	94 Appuel	Wat	Drul	Dry II	101	94 Wat	Dry I	Dry II	94 A nnual	100 Wat	Dry I	Dry II	100	Wat	Dry I	Dru II	150
<ul> <li>Irrigated Paddy t/ha</li> </ul>	wei	DIVI	DIVII	#DIV/0	3 5	DIVI	Diyii	Annuar	3 4		3.5	Annuar	3 5	DIVI	DIVI	Annuar	3 5	DIVI	DIVII	Annuar	3 5	DIVI	DIVII	3 5	35	DIVI	DIVII	Annuar	4.0	DIVI	4 0	Annuar 4 0
- Paddy (Rainfed) 1/				11D11/0:	5.5				2.5		5.5	5.5	5.5			5.5	5.5	·		5.5	5.5			2.0	2.5				4.0		4.0	4.0
- Palawija 2/ t/ha							2.5					-			2.5				2.5	-				-	-							-
- Rainfed Paddy t/ha	2.5			-	2.5							-	2.5			_	2.5	5		-				-	-							-
- Palawija 3/ t/ha												-				-				-				-	-							-
<ol><li>Crop Production</li></ol>	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
<ul> <li>Irrigated Paddy ton</li> </ul>	0	0	0	0	700	0	0	700	2,674	. 0	574	3,248	700	0	0	700	350	0 0	0	350	3,497	0	0	3,497	2,800	0	0	2,800	5,420	0	2,712	8,132
- Paddy (Rainfed) 1/ton	0	0	0	0	0		50	0	1,125	-		1,125	0		100	0	0	)	26	0	0	0	0	0	1,785		0	1,785	0	0	0	0
- Palawija 2/ ton	0	0	0	(25	1 250	0	50	1 250	0	0	0	0	1 750	0	100	1 750	2.075	0 0	25	25	0	0	0	0			0	0	0	0	0	0
- Rainied Paddy ton Palawija 3/ ton	038	0	0	038	1,230	0	0	1,230		0		0	1,750	0	0	1,750	2,075	0	0	2,073	0	0	0	0		0	0	0	0	0		0
Total Paddy Production ton	638	0	0	638	1 950	0	0	1 950	3 790	) (	574	4 373	2 450	0	0	2 450	2 425	0	0	2 425	3 497	0	0	3 497	4 585	0	0	4 585	5 420	0	2 712	8 1 3 2
Total Fuddy Froduction ton	050	0	0	050	Palawija re	epresented	by maize (c	composite)	5,177		574	4,575	Palawija r	epresented	by maize (	composite)	Palawija 1	represented	by maize (	composite)	5,477	v	0	5,477	4,505			4,505	5,420	0	2,712	0,152
6. Av. Paddy Yield 6/ t/ha	-	-	-	2.5	-	-		2.8				3.2	-	-	-	2.7	-	- 1	-	2.6	-	-	-	3.5	5 -		-	3.0	-	-	_	4.0
II. With Project																																
1. Land Use	Irri. Pad	ldy Field	622	ha	Irri. Pad	dy Field	1,260	ha	Irri. Pac	ddy Field	1,549	ha	Irri. Pad	dy Field	970	ha	Irri. Pac	ddy Field	930	ha	Irri. Pad	dy Field	1,041	ha	Irri. Pac	ldy Field	1,514	ha	Irri. Pad	dy Field	1,355	ha
	Non-irr	igable Lai	157	ha	Non-irri	gable Lai	1 240	ha	Non-irr	igable Lar	143	ha	Non-irri	gable Lai	30	ha	Non-irr	igable La	nd	ha	Non-irri	gable Lai	18	ha	Non-irr	igable Lar	nd	ha	Non-irri	gable Lan	d	ha
2 Cronned Area	Subjec	Dru I	//9	na A ppuol	Subject	Area	1,500	na A ppuol	Subjec	A Area	1,692	na Appual	Subject	l Area	1,000	na Appual	Subjec	CI Area	930 Drav II	na Appual	Subjec	I Area	1,059 Dry II	Annual	Subjec	I Area	1,514	Appual	Subject	Area	1,333	na Appual
<ol> <li>Cropped Area</li> <li>Irrigated Paddy ha</li> </ol>	622	DIYI	211 211	Annual 037	wei 1 260	DIYI	630	1 800	1 549	DIVI	DIY II 775	Annuar 2 3 2 4	070	Dry I	DIY II 485	Annuai 1 455	030	DIVI	Dry 11 465	Annual 1 305	1.041	DIYI	521	Annual	1 514	Dry I	DIY II 757	2 271	1 355	DIYI	0/0	2 304
- Palawija 2/ ha	022		62	62	, 1,200		126	1,890	1,547		155	2,524	970		97	97	930	, 	93	93	1,041		104	1,502	1,514		151	151	1,555		136	136
Total ha	622	0	373	995	1.260	0	756	2.016	1.549	0	930	2.479	970	0	582	1.552	930	0 0	558	1.488	1.041	0	625	1.666	1.514	0	908	2.422	1.355	0	1.085	2.440
3. Cropping Intensity 7/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
<ul> <li>Irrigated Paddy %</li> </ul>	100	0	50	150	100	0	<i>i</i> 50	150	100	0	50	150	100	0	50	150	100	0 0	50	150	100	0	50	150	100	0	50	150	100	0	70	170
- Palawija 2/ %		0	10	10	,	0	10	10		0	10	10	1	0	10	10		0	10	10		0	10	10	)	0	10	10		0	10	10
Total %	100	0	60	160	100	0	60	160	100	0	60	160	100	0	60	160	100	0 0	60	160	100	0	60	160	100	0	60	160	100	0	80	180
Overall to Subject Area %	80	0	48 D II	128	84	0 D	50	134	92	0	55	147	97		58	155	100	0	60 D U	160	98	D L	59	157	100		60 D H	160	100	0 D	80	180
4. Crop Yield	wet	Dry I	Dry II	Annual	wet 4.5	Dry I	Dry II	Annual	wet	Dry I	Dry II	Annual	wet	Dry I	Dry II	Annual	wet 4.5	Dry I	Dry II	Annual	wet	Dry I	Dry II	Annual	wet 4.5	Dry I	Dry II	Annual	wet	Dry I	Dry II	Annual
- Palawija 2/ t/ha	4.5		4.5	4.5	4.5		4.5	4.5	4.5		4.5	4.5	4.5		4.5	4.5	4.5	,	4.5	4.5	4.5		4.5 5.0	4.3	4.5		4.5	4.5	5.0		5.0	5.0
5. Crop Production	Wet	Dry I	Dry II	Annual	Wet	Drv I	Dry II	Annual	Wet	Drv I	Dry II	Annual	Wet	Drv I	Dry II	Annual	Wet	Drv I	Drv II	Annual	Wet	Drv I	Dry II	Annual	Wet	Drv I	Drv II	Annual	Wet	Drv I	Dry II	Annual
- Irrigated Paddy ton	2,799	0	1,400	4,199	5,670	0	2,835	8,505	6,971	0	3,488	10,458	4,365	0	2,183	6,548	4,185	0	2,093	6,278	4,685	0	2,345	7,029	6,813	0	3,407	10,220	6,775	0	4,745	11,520
- Palawija 2/ ton		0	310	310	)	0	630	630		0	775	775		0	485	485		0	465	465		0	520	520	)	0	755	755		0	680	680
6. Av. Paddy Yield 6/ t/ha	-	-	-	. 4.5	-			4.5				4.5	-			. 4.5	-	-	-	4.5	-	-	-	4.5	-		-	4.5	-	-	-	5.0
	Palawija	represente	d by maiz	e (hybrid)	Palawija r	represente	d by maize	e (hybrid)	Palawija	represente	d by maize	e (hybrid)	Palawija r	represente	d by maiz	e (hybrid)	Palawija	represente	ed by maiz	e (hybrid)	Palawija	represente	d by maize	e (hybrid)	Palawija	represente	d by maize	: (hybrid)	Palawija r	epresented	1 by maize	e (hybrid)
Increment (With - Present)			(22	<u>h-</u>	T · D I		1.000	ha	L · D	11 8:11		ha	L · D		770		I D		020	h a		1 8.11	42	1			0	ha	L · · · ·	1 1 11		1
1. Land Use	Irri. Pac	Idy Field	622	ha	Irri. Pad	dy Field	1,060	ha	Irri. Pac	Idy Field		ha	Irri. Pad	dy Field	//0	ha	Irri. Pac	ddy Field	830	ha	Irri. Pad	dy Field	42	ha	Irri. Pac	idy Field	0	ha	Irri. Pad	dy Field	0	ha
2 Cronned Area	Wat	Dru I	U Dry II	Appuol	Wat	Dry I	Dry II	nu Appuol	Wat	J Area	Dry II	Appual	Wat	Dru I	U Dry II	Annual	Wat	Dru I	Dry II	Annual	Subjec Wat	Dry I	Dry II	Annual	Subjec	I Area	Dry II	Appuol	Wat	Dru I	Dry II	nu Appuol
- Paddy ha	367	DIVI	311	Annual 678	560	0	630	1 190	335		611	946	70	DIVI	485	Annuar	wei	DIVI	465	Annuar 465	42	DIYI	521	563	wei 0	DIVI	757	757	wei	DIVI	271	271
- Others ha	501	0	62	62	500	0	106	1,190	555	0	155	155	10	0	57	57		0	83	83	42	0	104	104		0	151	151		0	136	136
Total ha	367	0	373	740	560	0	736	1.296	335	0	766	1.101	70	0	542	612	0	0	548	548	42	0	625	667	0	0	908	908	0	0	407	407
3. Cropping Intensity 7/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Paddy %	100	0	50	150	. 0	0	50	50	37	0	37	74	0	0	50	50	0	0	50	50	0	0	50	50	47	0	50	97	0	0	20	20
- Others %	0	0	10	10	0	0	0	0	0	0	10	10	0	0	-10	-10	0	0	0	0	0	0	10	10	0	0	10	10	0	0	10	10
Total %	100	0	60	160	0	0	50	50	37	0	47	84	0	0	40	40	0	0	50	50	0	0	60	60	47	0	60	107	0	0	30	30
4. Paddy Production ton	-			3,561	<u>                                     </u>	'	+	6,555	⁻	+	<b>├</b> ─── ⁺	6,085			<u> </u>	4,098	<b>├</b>			3,853	-	-	-	3,533		<u>⊢</u>	<u> </u> −	5,635	<b>↓</b> ]			3,388
D AV PADDY YIELD 6/ 1/ha	_			. 70				1.7	4							- I X					-	_	_	1.0				1.5		_	_	

AT - 36

1/: Paddy grown under rainfed condition in irrigated field 2/: Palawija in irrigated field 3/: Palawija in upland field 4/: Cropping intensity in each land use category; Irri. Paddy Field, in rainfed field & upland field, respectively and overall to subject area 5/: Irrigation performances --- Cropping intensity of irrigated paddy & palawija in irrigated field; not including paddy grown under rainfed conditions 6/: Overall annual average paddy yield (annual paddy production + annual total cropped area of paddy) 7/: Cropping intensity in irrigated field

#### Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 3/7

DISTRICT								
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Pad<br>Non-irri<br>Subjec<br>Wet                                                                                                                                                                                                  | ldy Field<br>igable Lar<br>et Area<br>Dry I                                                                                                       | 2,905<br>nd<br>2,905<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>ha<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. 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| 1. Land Use<br>2. 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Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130                                                                                                                                                                      | dy Field<br>gable Lat<br><i>t Area</i><br>Dry I                                                                                                                                                                           | 1,130<br>nd<br><i>1,130</i><br>Dry II<br>1,130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pad<br>Non-irr<br>Subject<br>Wet<br>2,500                                                                                                                                                                                         | ddy Field<br>rigable Lau<br>ct Area<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044                                                                                                                                                           | dy Field<br>gable Lan<br>t <i>Area</i><br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pac<br>Non-irr<br>Subjec<br>Wet<br>376                                                                                                                                                                                               | ldy Field<br>igable Lar<br><i>Area</i><br>Dry I                                                                                                                | 376<br>76<br>452<br>Dry II<br>263                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>639                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905                                                                                                                                                                                         | ldy Field<br>igable Lar<br>et Area<br>Dry I                                                                                                       | 2,905<br>nd<br>2,905<br>Dry II<br>1,452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ha<br>ha<br>ha<br>Annual<br>4,357                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010                                                                                                                                      
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| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130                                                                                                                                                                      | dy Field<br>gable Lau<br><i>t Area</i><br>Dry I<br>113                                                                                                                                                                    | 1,130<br>nd<br><i>1,130</i><br>Dry II<br>1,130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500                                                                                                                                                                                          | ddy Field<br>rigable Lan<br>ct Area<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044                                                                                                                                                           | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pac<br>Non-irr<br>Subjec<br>Wet<br>376                                                                                                                                                                                               | ldy Field<br>igable Lat<br><i>at Area</i><br>Dry I                                                                                                             | 376<br>76<br>452<br>Dry II<br>263<br>38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>Annual<br>639<br>38                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905                                                                                                                                                                                         | ldy Field<br>igable Lar<br><i>at Area</i><br>Dry I                                                                                                | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br><i>ha</i><br>Annual<br>4,357<br>145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010                                                                                                                                      
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| 1. Land Use<br>2. Cropped Area<br>- Irrigated Paddy ha<br>- Palawija 2/ ha<br>Total ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130                                                                                                                                                                      | dy Field<br>gable Lan<br>t Area<br>Dry I<br>113<br>113                                                                                                                                                                    | 1,130<br>nd<br><i>1,130</i><br>Dry II<br>1,130<br>1,130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>2,500                                                                                                                                                                                 | ddy Field<br>rigable Lat<br>ct Area<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>2,044                                                                                                                                                  | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>376                                                                                                                                                                                        | ldy Field<br>igable Lau<br><i>et Area</i><br>Dry I                                                                                                             | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>Annual<br>639<br>38<br>677                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905                                                                                                                                                                                         | ldy Field<br>igable Lar<br><i>et Area</i><br>Dry I                                                                                                | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010                                                                                                                             
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| Land Use     Z. Cropped Area     Irrigated Paddy ha     Palawija 2/ ha     Total ha     Cropping Intensity 7/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>4<br>3,446<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet                                                                                                                                                      | dy Field<br>gable Lau<br>t Area<br>Dry I<br>113<br>113<br>Dry I                                                                                                                                                           | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>1,130<br>1,130<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pao<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>2,500<br>Wet                                                                                                                                                                          | ddy Field<br>rigable Lan<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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Pad<br>Non-irri<br>Subject<br>Q.044<br>2,044<br>Wet                                                                                                                                                  | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>376<br>Wet                                                                                                                                                                                 | ldy Field<br>igable Lau<br><i>et Area</i><br>Dry I<br>0<br>Dry I                                                                                               | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual                                                                                                                                                                                                                                                                                                                                                          | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>2,905<br>Wet                                                                                                                                                                         | ddy Field<br>igable Lar<br><i>et Area</i><br>Dry I<br>0<br>Dry I                                                                                  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet                                                                                                                      
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| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>3,446<br>Wet<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>9 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet<br>100                                                                                                                                               | dy Field<br>gable Lat<br><i>t Area</i><br>Dry I<br>113<br>113<br>Dry I<br>0                                                                                                                                               | 1,130<br>nd<br><i>I,130</i><br>Dry II<br>1,130<br>1,130<br>Dry II<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>2,500<br>Wet<br>100                                                                                                                                                                   | ddy Field<br>rigable Lan<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>2,044<br>Wet<br>100                                                                                                                                    | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>204<br>Dry I<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100                                                                                                                                                                                 | ddy Field<br>igable Lau<br>or Area<br>Dry I<br>0<br>Dry I<br>0                                                                                                 | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170                                                                                                                                                                                                                                                                                                                                                   | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>2,905<br>Wet<br>100                                                                                                                                                                  | ldy Field<br>igable Lar<br>Dry I<br>0<br>Dry I<br>0<br>Dry I<br>0                                                                                 | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet<br>100                                                                                                               
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| 1. Land Use<br>2. Cropped Area<br>- Irrigated Paddy ha<br>- Palawija 2/ ha<br>Total ha<br>3. Cropping Intensity 7/<br>- Irrigated Paddy %<br>- Palawija 2/ %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet<br>100                                                                                                                                               | dy Field<br>gable Lau<br>Dry I<br>113<br>113<br>Dry I<br>0<br>10                                                                                                                                                          | 1,130<br>nd<br>Dry II<br>1,130<br>1,130<br>1,130<br>Dry II<br>100<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100                                                                                                                                                                            | ddy Field<br>rigable Lar<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>2,044<br>Wet<br>100                                                                                                                                    | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>376<br>Wet<br>100                                                                                                                                                                          | ldy Field<br>igable Lau<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0                                                                                   | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>10                                                                                                                                                                                                                                                                                                                                             | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>2,905<br>Wet<br>100                                                                                                                                                                  | ldy Field<br>igable Lar<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0                                                                           | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,452<br>1,597<br>Dry II<br>50<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet<br>100                                                                                                               
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| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Total %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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I<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet<br>100<br>100                                                                                                                                        | dy Field<br>gable Lat<br>t Area<br>Dry I<br>113<br>113<br>Dry I<br>0<br>10<br>10                                                                                                                                          | 1,130<br>nd<br>Dry II<br>1,130<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100                                                                                                                                                                            | ddy Field<br>rigable Lau<br>ct Area<br>Dry I<br>D 0<br>Dry I<br>D 0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>2,044<br>Wet<br>100<br>100                                                                                                                             | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>10<br>800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>100                                                                                                                                                                          | ddy Field<br>igable Lau<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0                                                                                   | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>10<br>180                                                                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100                                                                                                                                                                           | ldy Field<br>igable Lar<br><i>et Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0                                                                   | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,457<br>1,597<br>Dry II<br>50<br>5<br>55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet<br>100                                                                                                               
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| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     @     Total %     Overall to Subject Area %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0 100<br>0 100<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>                                                                                                                                                                  | dy Field<br>gable Lat<br>t Area<br>Dry I<br>113<br>113<br>Dry I<br>0<br>10<br>10<br>10<br>10                                                                                                                              | 1,130<br>nd<br>Dry II<br>1,130<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                            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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>1000                                                                                                                                                                    | ddy Field<br>rigable Lat<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100                                                                                                                               | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>1000<br>1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>                                                                                                                                                                             | ddy Field<br>igable Lau<br>at Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                              | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>7<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>100<br>180<br>150                                                                                                                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>100                                                                                                                                                             | ldy Field<br>igable Lar<br><i>T Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0                                                               | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet<br>100<br>100<br>100                                                                                                 
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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0 100<br>0 100<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>U,130<br>Wet<br>100<br>100<br>U00<br>Wet                                                                                                                          | dy Field<br>gable Lat<br><i>t Area</i><br>Dry I<br>113<br>113<br>Dry I<br>0<br>10<br>10<br>10<br><i>Dry</i> I                                                                                                             | 1,130<br>nd<br><i>1,130</i><br>Dry II<br>1,130<br>1,130<br>Dry II<br>0 100<br>0 0<br>100<br>100<br><i>100</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>100<br>Wet                                                                                                                                                       | ddy Field<br>rigable Lar<br>Dry I<br>D<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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                                                                                                                                  | ha<br>ha<br>Annual<br>4,000<br>250<br>4,250<br>Annual<br>160<br>10<br>170<br><i>170</i><br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet                                                                                                                        | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>Dry II<br>100<br>0<br>100<br>100<br>Dry II<br>5,05<br>100<br>100                                                                                           | ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>10<br>210<br>210<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pad<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>71<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>10<br>80<br>56<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>Annual<br>1,161<br>68<br>1,229<br>Annual<br>170<br>10<br>180<br><i>127</i><br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet                                                                                                                                                                    | ldy Field<br>igable Lau<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>100<br>180<br><i>150</i><br>Annual                                                                                                                                                                                                                                                                                                             | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>100<br>Wet                                                                                                                                                      | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,557<br>Dry II<br>50<br>55<br>55<br>55<br>55<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pad<br>Non-irri<br>Subjec:<br>Wet<br>2,010<br>2,010<br>Wet<br>100<br>100<br>Wet                                                                                                
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                                                                                                                                                                                                       | ha<br>ha<br>Annual<br>3,216<br>201<br>3,417<br>Annual<br>160<br>170<br><i>I</i> 70<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>90<br>90<br>55<br>95<br>95<br>Dry II<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>Wet<br>1,130<br>Wet<br>100<br>100<br>Wet<br>5.0                                                                                                                   | dy Field<br>gable Lat<br><i>t Area</i><br>Dry I<br>113<br>113<br>Dry I<br>0<br>10<br>10<br>10<br>Dry I<br>5.0                                                                                                             | 1,130<br>nd<br><i>1,130</i><br>Dry II<br>1,130<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                        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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4.5                                                                                                                                                       | ddy Field<br>rigable Lanct<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>60<br>100<br>70<br>70<br>Dry II<br>4.5<br>5,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ha<br>ha<br>Annual<br>4,000<br>250<br>4,250<br>Annual<br>160<br>100<br>170<br><i>170</i><br>Annual<br>4,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0                                                                                                                 | dy Field<br>gable Lan<br>( <i>Area</i><br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>Dry I<br>5 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>Dry II<br>100<br>0<br>100<br>Dry II<br>5.0                                                                                                                 | ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>100<br>210<br>Annual<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. Pad<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>10<br>80<br>56<br>Dry II<br>4.5<br>5 5 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>Annual<br>1,161<br>68<br>1,229<br>Annual<br>170<br>10<br>180<br><i>127</i><br>Annual<br>4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5                                                                                                                                                             | ldy Field<br>igable Land<br><i>T Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                   | 376<br>76<br>452<br>Dry II<br>263<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II<br>4.5<br>500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ha<br>ha<br>Annual<br>639<br>637<br>Annual<br>170<br>100<br>180<br><i>150</i><br>Annual<br>4.5                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0                                                                                                                                               | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0       | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>55<br>Dry II<br>5.0<br>5 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>Annual<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>100<br>Wet<br>5.0                                                                                                   
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                                                                                                                                                                                                       | ha<br>ha<br>Annual<br>3,216<br>201<br>3,417<br>Annual<br>160<br>170<br>170<br>Annual<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 5/     // Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     5. Crop Poduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0 100<br>0 100<br>0 100<br>Wet<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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      | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>90<br>55<br>95<br>95<br>95<br>Dry II<br>5.0<br>5.0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                                            | dy Field<br>gable Lai<br>t Area<br>Dry I<br>113<br>113<br>Dry I<br>0<br>10<br>10<br>10<br>Dry I<br>5.0<br>Dry I                                                                                                           | 1,130<br>nd<br>Dry II<br>1,130<br>1,130<br>0ry II<br>100<br>0<br>100<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pac<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet                                                                                                                                                | ddy Field<br>rigable Lan<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>60<br>10<br>700<br>700<br>Dry II<br>4.5<br>5.0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                          | dy Field<br>gable Lan<br>(Area<br>Dry I<br>204<br>204<br>204<br>0<br>10<br>10<br>10<br>10<br>0<br>Dry I<br>5.0<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>10<br>10<br>10<br>800<br>56<br>Dry II<br>4.5<br>5.0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet                                                                                                                                                      | ldy Field<br>igable Lan<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II<br>4.5<br>5.0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>100<br>180<br><i>150</i><br>Annual<br>4.5                                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                                                               | ldy Field<br>igable Land<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597<br>Dry II<br>50<br>55<br>555<br>555<br>555<br>555<br>Dry II<br>5.0<br>5.0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>155<br>Annual<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                            
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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     S. Crop Production     - Irrigated Paddy ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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II<br>9,0<br>9,5<br>0,95<br>0,95<br>0,95<br>0,95<br>0,97<br>11<br>5,00<br>5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0<br>0,5,0,0<br>0,5,00000000 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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>4,130<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>5.650                                                                                                          | dy Field<br>gable Lai<br>t Area<br>Dry I<br>113<br>113<br>Dry I<br>0<br>10<br>10<br>10<br>Dry I<br>5.0<br>Dry I<br>0<br>Dry I                                                                                             | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>0<br>0<br>100<br>Dry II<br>5.0<br>0<br>Dry II<br>5.650                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Pac<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4,5<br>Wet<br>11,250                                                                                                                             | ddy Field<br>rigable Laact Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>600<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ha<br>ha<br>ha<br>Annual<br>4,000<br>250<br>4,250<br>Annual<br>160<br>170<br>170<br>Annual<br>4,5<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pad<br>Non-irri<br>Subjecci<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10.220                                                                                               | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>10<br>0<br>10<br>0<br>10<br>0<br>0<br>0<br>0<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>10<br>0<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3.074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>688<br>546<br>Dry II<br>70<br>10<br>10<br>800<br>566<br>Dry II<br>4.5<br>5.0<br>Dry II<br>2.151                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1.692                                                                                                                                      | ldy Field<br>igable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 376<br>76<br>452<br>Dry II<br>263<br>301<br>Dry II<br>4.5<br>5.0<br>Dry II<br>1.184                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ha<br>ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>100<br>180<br>1500<br>Annual<br>4.5<br>-<br>-<br>Annual<br>2.876                                                                                                                                                                                                                                                                         | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,905<br>Wet<br>100<br>00<br>Wet<br>5.0<br>Wet<br>14,525                                                                                                                                     | ldy Field<br>igable Lar<br>t Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>Dry I<br>Dry I<br>Dry I                            | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>Dry II<br>5.0<br>5.0<br>Dry II<br>7.260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>155<br>Annual<br>5.0<br>-<br>-<br>Annual<br>21.785                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,010<br>Wet<br>100<br>00<br>Wet<br>5.0<br>Wet<br>10.050                                                                                  
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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subjec:<br>Wet<br>3,446<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>17,230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>1722<br>3,273<br>Dry II<br>90<br>50<br>95<br>95<br>95<br>95<br>0<br>5.0<br>Dry II<br>5.0<br>0<br>Dry II<br>5.0<br>0<br>8800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>Wet<br>100<br>100<br>100<br>Wet<br>5,650                                                                                                                          | dy Field<br>gable Lat<br><i>t Area</i><br>Dry I<br>113<br>Dry I<br>0<br>100<br>100<br>100<br>Dry I<br>5.0<br>Dry I<br>0<br>0<br>565                                                                                       | 1,130<br><i>I,130</i><br>Dry II<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>00<br>100<br>100<br>Dry II<br>5,0<br>Dry II<br>5,650<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                       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Paa<br>Non-irr<br>Subjeed<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>11,250                                                                                                                                     | ddy Field           rigable Lau           ct Area           Dry I           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>6,00<br>Dry II<br>6,750<br>Dry II<br>6,750<br>1,250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10,220                                                                                                | dy Field<br>gable Lan<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>0<br>10<br>Dry I<br>5.0<br>Dry I<br>0<br>1,020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1,692                                                                                                                                             | ldy Field<br>igable Lar<br>7 Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>4.5<br>5.0<br>Dry II<br>1,184<br>190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ha<br>ha<br>Annual<br>639<br>38<br>677<br>Annual<br>170<br>100<br>180<br>150<br>Annual<br>4.5<br>-<br>Annual<br>2,876<br>190                                                                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,905<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525                                                                                                                             | ldy Field<br>igable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0         | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>55<br>55<br>0ry II<br>7,260<br>7,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>Annual<br>5.0<br>-<br>Annual<br>21,785<br>725                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10,050                                                                           
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                                                                                                                                                                                                       | ha<br>ha<br>Annual<br>3,216<br>201<br>3,417<br>Annual<br>160<br>170<br>Annual<br>5.0<br>-<br>Annual<br>16,080<br>1,005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overal to Subject Area %     Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     S. Crop Production     - Irrigated Paddy ton     - Irrigated Paddy ton     - Palawija 2/ ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                 | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>90<br>0<br>50<br>95<br>95<br>95<br>95<br>0ry II<br>5,00<br>5,0<br>0<br>Dry II<br>15,505<br>0<br>860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>Wet<br>100<br>100<br>Wet<br>5,0<br>Wet<br>5,650                                                                                                                   | dy Field<br>gable Lat<br><i>t Area</i><br>Dry I<br>113<br>Dry I<br>0<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                               | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                               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Pad<br>Non-irr<br>Subjec<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>11,250                                                                                                                                             | ddy Field<br>rigable Lau<br>ct Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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2,500<br>nd<br>2,500<br>Dry II<br>1,5500<br>Dry II<br>60<br>10<br>700<br>Dry II<br>4.5<br>5.0<br>Dry II<br>6,750<br>1,250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irri<br>Subjecci<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10,220                                                                                               | dy Field<br>gable Lar<br>t Area<br>Dry I<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1,020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>10<br>800<br>56<br>Dry II<br>4.5<br>5.0.0<br>Dry II<br>2,151<br>340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1,692                                                                                                                                             | ldy Field<br>igable Lar<br>Dry 1<br>0<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                  | 376<br>76<br>452<br>Dry II<br>263<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II<br>4.5<br>5.0<br>Dry II<br>1,184<br>190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ha<br>ha<br>ha<br>639<br>38<br>677<br>Annual<br>170<br>180<br><i>150</i><br>Annual<br>2,876<br>190                                                                                                                                                                                                                                                                                                        | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525                                                                                                                                     | ldy Field<br>igable Lar<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0     | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>55<br>55<br>Dry II<br>5.0<br>5.0<br>0<br>Dry II<br>7,260<br>725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>155<br>Annual<br>5,0<br>-<br>Annual<br>21,785<br>725                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Irri. Pad<br>Non-irri<br>Subjecz<br>Wet<br>2,010<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,050                                                                                        
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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 9%     Coverall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>4<br>3,446<br>4<br>3,446<br>4<br>0<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>90<br>5<br>95<br>95<br>95<br>Dry II<br>5.0<br>Dry II<br>5.0<br>Dry II<br>0 15,505<br>860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>00<br>100<br>100<br>100<br>Wet<br>5,650                                                                                                                  | dy Field<br>gable Lat<br><i>t Area</i><br>Dry 1<br>113<br>Dry 1<br>0<br>100<br>100<br>Dry 1<br>5.0<br>Dry 1<br>0<br>565                                                                                                   | 1,130<br>nd<br>Dry II<br>1,130<br>0ry II<br>1,130<br>0ry II<br>0 100<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                           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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>100<br>Wet<br>4.5<br>Wet<br>11,250                                                                                                                               | ddy Field<br>rigable Lar<br><i>cl Area</i><br>Dry I<br>Dry I<br>Dry I<br>Dry I<br>Dry I<br>Dry I<br>Dry I<br>Dry I<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>2500<br>1,750<br>Dry II<br>6,00<br>10<br>70<br>Dry II<br>6,750<br>1,250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pad<br>Non-irri<br>Subject<br>2,044<br>Wet<br>2,044<br>Wet<br>1000<br>Wet<br>5.0<br>Wet<br>10,220                                                                                                    | dy Field<br>gable Lar<br>( <i>Area</i><br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>0<br>Dry I<br>5.0<br>Dry I<br>0<br>1,020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | didy Field<br>digable Lau<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                            | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>10<br>800<br>56<br>Dry II<br>4.5<br>5.0.0<br>Dry II<br>2,151<br>340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1,692                                                                                                                                             | ldy Field<br>igable Lar<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | 376<br>766<br>452<br>Dry II<br>263<br>301<br>Dry II<br>70<br>10<br>800<br>67<br>Dry II<br>4.5<br>5.0<br>Dry II<br>1,184<br>190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>ha<br>639<br>38<br>677<br>Annual<br>170<br>10<br>180<br><i>Iso</i><br>Annual<br>2,876<br>190<br>-<br>4,5                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525                                                                                                                                     | ldy Field 1<br>jgable Lart<br>1 Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>Dry II<br>5,0<br>5,0<br>5,0<br>0<br>5,0<br>0<br>7,260<br>7,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ha<br>ha<br>ha<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>155<br>Annual<br>21,785<br>725<br>725                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10,050                                                                                  
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| 1. Land Use     1. Land Use     1. Land Use     2. Cropped Area     1. Irrigated Paddy ha     Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     Irrigated Paddy %     Palawija 2/ %     Overall to Subject Area %     Crop Yield     Irrigated Paddy tha     Palawija 2/ tha     S. Crop Production     Irrigated Paddy ton     Palawija 2/ ton     Charle Area Paddy ton     Palawija 2/ ton     Charle Area Paddy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>100<br>100<br>Wet<br>5,0<br>4<br>0<br>100<br>Wet<br>17,230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>90<br>95<br>95<br>95<br>Dry II<br>5.0<br>5.0<br>0<br>5.0<br>0<br>Dry II<br>5.0<br>5.0<br>0<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>0<br>90<br>9                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>ha<br>6,547<br>172<br>6,719<br>Annual<br>190<br>5<br>195<br>Annual<br>32,735<br>860<br>5.0<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet<br>1000<br>1000<br>Wet<br>5,650<br>Wet<br>5,650                                                                                                      | dy Field<br>gable Lau<br><i>t Area</i><br>Dry I<br>113<br>113<br>Dry I<br>0<br>100<br>100<br>100<br>0<br>0<br>5.0<br>Dry I<br>0<br>0<br>5.65                                                                              | 1,130<br>nd<br>1,130<br>1,130<br>1,130<br>Dry II<br>1,130<br>0<br>0<br>100<br>100<br>100<br>100<br>100<br>100<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                           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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>11,250                                                                                                                                      | ddy Field<br>rigable Lar<br>Dry I<br>Dry I<br>Dry I<br>Dry I<br>O<br>O<br>O<br>Dry I<br>Dry I<br>Dry I<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>2500<br>1,750<br>Dry II<br>600<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ha<br>ha<br>ha<br>4,000<br>250<br>4,250<br>4,250<br>4,250<br>100<br>170<br>170<br>170<br>4,5<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10,220                                                                                                | dy Field<br>gable Lan<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>1,020<br>1,020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                  | ha<br>ha<br>ha<br>Annual<br>2004<br>100<br>2100<br>2100<br>2100<br>2100<br>2100<br>Annual<br>20,4400<br>1,0200<br>5.00<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>688<br>546<br>Dry II<br>70<br>100<br>800<br>56<br>00<br>70<br>II<br>4.5<br>5.0<br>Dry II<br>2,151<br>340<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>ha<br>Annual<br>1,161<br>688<br>1,229<br>Annual<br>170<br>100<br>180<br>127<br>Annual<br>4.5<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1,692                                                                                                                                             | ldy Field<br>igable Lar<br><i>T Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>80<br>67<br>Dry II<br>4.5<br>5.0<br>Dry II<br>1,184<br>190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ha<br>ha<br>Annual<br>639<br>388<br>677<br>Annual<br>170<br>180<br>150<br>Annual<br>4.5<br>-<br>Annual<br>2,876<br>190<br>-<br>4.5<br>e (hybrid)                                                                                                                                                                                                                                                          | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525                                                                                                                              | ldy Field<br>igable Lart<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>500<br>55<br>55<br>55<br>55<br>55<br>0ry II<br>5.0<br>5.0<br>0ry II<br>7,260<br>725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>Annual<br>4,357<br>1455<br>4,502<br>Annual<br>150<br>5<br>155<br>Annual<br>5.0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>10,050                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | dy Field<br>gable Lar<br><i>I Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>600<br>10<br>70<br>Dry II<br>5.0<br>5.0<br>Dry II<br>6,030<br>1,005<br>-<br>by maize                                                                                                                                                                                                                                                                                                                            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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     S. Crop Production     - Irrigated Paddy ton     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>100<br>100<br>Wet<br>17,230<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3,446<br>nd<br>J.,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry II<br>9 95<br>95<br>95<br>0 95<br>0 95<br>0 95<br>0 95<br>0 95<br>0 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>ha<br>Annual<br>6,547<br>6,719<br>Annual<br>1900<br>5<br>1955<br>1955<br>1955<br>Annual<br>3,005<br>6,00<br>6 (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>Wet<br>100<br>100<br>Wet<br>5,650<br>Wet<br>5,650                                                                                                                 | dy Field<br>gable Lait<br><i>t Area</i><br>Dry 1<br>113<br>113<br>Dry 1<br>0<br>100<br>100<br>100<br>Dry 1<br>0<br>5.00<br>Dry 1<br>0<br>0<br>565                                                                         | 1,130<br>nd<br>1,130<br>1,130<br>1,130<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>100<br>Wet<br>4.5<br>Wet<br>11,250                                                                                                                               | ddy Field<br>rigable Laic<br>ct Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>6,00<br>Dry II<br>4,55<br>5,00<br>Dry II<br>6,750<br>1,250<br>1,250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>ha<br>Annual<br>4,000<br>250<br>4,250<br>Annual<br>160<br>170<br>Annual<br>4.5<br>-<br>Annual<br>18,000<br>1,250<br>4.5<br>e (hybrid)<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>000<br>Wet<br>5.0<br>Wet<br>10,220<br>Palawija P                                                                                         | dy Field<br>gable Lan<br><i>I Area</i><br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>1,020<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>Dry II<br>100<br>0<br>0<br>100<br>100<br>Dry II<br>10,220<br>0<br>0<br>                                                                                    | ha<br>ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>10<br>210<br>210<br>210<br>210<br>210<br>20,400<br>1,020<br>1,020<br>5.0<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                    | 683<br>284<br>967<br>Dry II<br>478<br>68<br>546<br>Dry II<br>70<br>100<br>800<br>56<br>Dry II<br>4.55<br>5.0<br>Dry II<br>2,151<br>340<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>ha<br>Annual<br>1,161<br>688<br>1,229<br>Annual<br>170<br>100<br>180<br>127<br>Annual<br>5,225<br>340<br>4.5<br>2<br>6 (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1000<br>0<br>83<br>Wet<br>4.5<br>Wet<br>1,692<br>Palawija                                                                                                                                         | ldy Field<br>igable Lau<br><i>1 Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II<br>1,184<br>190<br>0<br>Dry II<br>1,184<br>190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ha<br>ha<br>Annual<br>6399<br>38<br>677<br>Annual<br>170<br>180<br>150<br>Annual<br>4.5<br>-<br>Annual<br>2,876<br>190<br>(<br>4.5<br>e (hybrid)<br>e (hybrid)                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija                                                                                                                         | ldy Field<br>igable Lar<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0    | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597<br>Dry II<br>50<br>55<br>55<br>Dry II<br>7,260<br>725<br>d by maized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ha<br>ha<br>ha<br>Annual<br>4,357<br>1455<br>4,502<br>Annual<br>155<br>155<br>155<br>Annual<br>5.0<br>-<br>-<br>Annual<br>21,785<br>725<br>5.0<br>c (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>00<br>Wet<br>5.0<br>Wet<br>10,050<br>Palawija                                                                       
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II<br>6,030<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005<br>1,005                                       | ha<br>ha<br>Annual<br>3,216<br>201<br>3,417<br>Annual<br>1600<br>170<br>Annual<br>5.0<br>-<br>7<br>Annual<br>16,080<br>1,005<br>5.0<br>(hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 1. Land Use     1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>17,230<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>90<br>3,2733<br>Dry II<br>90<br>55<br>95<br>95<br>95<br>95<br>95<br>0 75<br>10<br>15,505<br>860<br>15,505<br>860<br>860<br>15,505<br>860<br>15,505<br>860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pad<br>Non-irri<br>Subjec:<br>Wet<br>1,130<br>100<br>100<br>100<br>Wet<br>5,050<br>Wet<br>5,650                                                                                                                | dy Field<br>gable Lai<br>1 Area<br>Dry 1<br>113<br>113<br>Dry 1<br>0<br>100<br>100<br>100<br>100<br>0<br>Dry 1<br>5.00<br>Dry 1<br>0<br>565<br>                                                                           | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>1,130<br>0<br>0<br>100<br>100<br>100<br>100<br>100<br>Dry II<br>5,650<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                        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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4.5<br>Wet<br>11,250<br>Palawija                                                                                                                          | ddy Field<br>rigable Lai<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>4,5<br>5,00<br>Dry II<br>6,750<br>1,250<br>1,250<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                   | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,220<br>Palawija i<br>Irri. Pad<br>Subject                                                                        | dy Field<br>gable Lam<br>Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>0<br>Dry I<br>5.0<br>Dry I<br>0<br>1,020<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074<br>Palawija<br>Irri. Pac<br>Subjec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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II<br>4.5<br>5.0.0<br>Dry II<br>2,151<br>340<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec                                                                                                          | ldy Field<br>igable Lau<br><i>Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II<br>1,184<br>1,184<br>190<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>639<br>38<br>677<br>Annual<br>170<br>100<br>180<br>150<br>Annual<br>2,876<br>190<br>4.5<br>c (hybrid)<br>ha<br>ha                                                                                                                                                                                                                                                                       | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>1000<br>000<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec                                                                                                 | ldy Field<br>igable Lan<br><i>i Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>55<br>55<br>55<br>0ry II<br>5.0<br>5.0<br>7,260<br>7,260<br>7,260<br>7,260<br>7,260<br>7,25<br>d by maize                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>5<br>5<br>5<br>Annual<br>21,785<br>725<br>5.0<br>c (hybrid)<br>ha<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>1000<br>Wet<br>5.0<br>Wet<br>10,050<br>Palawija<br>Irri. Pad<br>Subjec                                                     
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                                                                                                                                                                                                       | ha<br>ha<br>ha<br>3,216<br>201<br>3,417<br>Annual<br>160<br>170<br>Annual<br>16,080<br>1,005<br>5,0<br>(hybrid)<br>ha<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     - Palawija 2/ %     Crop Yield     - Irrigated Paddy 10%     - Palawija 2/ t/ha     S. Crop Production     - Irrigated Paddy 10%     - Palawija 2/ ton     - Palawija 2/ ton     - Palawija 2/ ton     - Ralawija 2/ ton     - Ralawija 2/ ton     - Irrigated Paddy 10%     - Palawija 2/ ton     - Palawija 2/ ton     - Palawija 2/ ton     - Crop Production     - Palawija 2/ ton     - Crop Production     - Palawija 2/ ton     - Palawija     - Palawija 2/ ton     - Palawij | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>Wet<br>0 100<br>Wet<br>5.0<br>Wet<br>0 17,230<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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II<br>90<br>5,0<br>5,0<br>5,0<br>5,0<br>5,0<br>5,0<br>5,0<br>5,0<br>5,0<br>0<br>5,0<br>0<br>5,0<br>0<br>5,0<br>0<br>5,0<br>0<br>5,0<br>0<br>5,0<br>0<br>5,0<br>0<br>7,1<br>0<br>0<br>0<br>7,1<br>1<br>0<br>0<br>7,1<br>1<br>0<br>0<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>7,1<br>0<br>7,1<br>0<br>1<br>0<br>7,1<br>0<br>7,1<br>0<br>7,1<br>0<br>7,0<br>1<br>0<br>9,0<br>0<br>5,0<br>7,3<br>0<br>7,0<br>1<br>0<br>9,0<br>9,5<br>9,5<br>0<br>7,5<br>0<br>1<br>0<br>9,0<br>9,5<br>0<br>7,5<br>0<br>0<br>5,0<br>0<br>7,5<br>0<br>0<br>5,0<br>0<br>7,5<br>0<br>1<br>0<br>9,5<br>0<br>5,0<br>0<br>7,5<br>0<br>1<br>0<br>9,5<br>0<br>7,5<br>0<br>1<br>0<br>9,5<br>0<br>7,5<br>0<br>1<br>0<br>9,5<br>0<br>7,5<br>0<br>1<br>0<br>9,5<br>0<br>7,5<br>0<br>1<br>0<br>9,5<br>0<br>7,5<br>0<br>1<br>0<br>0<br>7,5<br>0<br>1<br>0<br>0<br>5,0<br>0<br>1<br>0<br>0<br>5,0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>0<br>5,0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>5,0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>5,0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>5,0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>5,0<br>0<br>0<br>5,0<br>0<br>0<br>5,0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ha<br>ha<br>Annual<br>6,547<br>172<br>6,719<br>Annual<br>190<br>50<br>50<br>50<br>50<br>6,719<br>50<br>50<br>6,719<br>50<br>6,719<br>50<br>50<br>6<br>6,719<br>50<br>50<br>6<br>6,719<br>50<br>50<br>6<br>6,719<br>50<br>6,719<br>70<br>50<br>50<br>6<br>70<br>9<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet<br>100<br>100<br>Wet<br>5,650<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                              | dy Field<br>gable Lai<br>t Area<br>Dry I<br>113<br>Dry I<br>0<br>100<br>100<br>100<br>Dry I<br>5.00<br>Dry I<br>-<br>represente<br>dy Field<br>t Area<br>Dry Z                                                            | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Pad<br>Non-irri<br>Subjee<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4,55<br>Wet<br>11,250<br>Palawija<br>Irri. Pad<br>Subjee<br>Wet                                                                                          | ddy Field<br>rigable Laict Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,750<br>Dry II<br>4,5<br>5,0<br>0<br>Dry II<br>6,750<br>1,250<br>1,250<br>1,250<br>6,710<br>6,710<br>0<br>Dry II<br>0<br>Dry II<br>0<br>0<br>Dry II<br>0<br>Dry II<br>0<br>0<br>Dry II<br>0<br>Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry                                                                                                               
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>2,044<br>Wet<br>1000<br>1000<br>Wet<br>10,220<br>10,220<br>Palawija r<br>Irri. Pad<br>Subject<br>Wet                                                   | dy Field<br>gable Lar<br>t Area<br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>Dry II<br>1000<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                 | ha<br>ha<br>ha<br>4.088<br>204<br>4.202<br>Annual<br>200<br>10<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>1000<br>711<br>Wet<br>4.5<br>Wet<br>3,074<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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II<br>70<br>10<br>80<br>56<br>Dry II<br>4,58<br>5.0<br>Dry II<br>2,151<br>340<br>663<br>0<br>Dry II<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irr<br>Subjec<br>Wet<br>100<br>100<br>83<br>Wet<br>4.5<br>Wet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                                                          | ldy Field<br>igable Lan<br>7 Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>0<br>70<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>1,184<br>1<br>1,184<br>1<br>1,184<br>1<br>1,184<br>1<br>1,184<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ha<br>ha<br>Annual<br>6399<br>388<br>677<br>Annual<br>1700<br>100<br>1800<br><i>150</i><br>Annual<br>4.55<br>-<br>-<br>Annual<br>2,876<br>1900<br>-<br>4.5<br>e (hybrid)<br>ha<br>ha<br>Annual                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>2,905<br>2,905<br>Wet<br>100<br>100<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec                                                                                                              | ldy Field<br>igable Lara<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>145<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>55<br>Dry II<br>5,0<br>5,0<br>5,0<br>Dry II<br>7,260<br>7,250<br>7,250<br>2,181<br>0<br>Dry II<br>0<br>Dry Dry II<br>0<br>Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ha<br>ha<br>ha<br>Annual<br>4,357<br>1455<br>4,502<br>Annual<br>150<br>5<br>5.0<br>5.0<br>5.0<br>c (hybrid)<br>ha<br>ha<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>0<br>Wet<br>100<br>100<br>Wet<br>10,050<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dy Field<br>gable Lan<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                    | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>600<br>10<br>700<br>Dry II<br>5.0<br>5.0<br>Dry II<br>6,030<br>1,005<br>-<br>by maize<br>810<br>0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ha<br>ha<br>ha<br>3,216<br>201<br>3,417<br>Annual<br>160<br>170<br>Annual<br>16,080<br>1,005<br>5,0<br>(hybrid)<br>ha<br>ha<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     Crop Production     - Irrigated Paddy ton     - Irrigated Paddy ton     - Irrigated Paddy ton     - Palawija 2/ tha     Crop Yield     Crop Yield     Crop Yield     Crop Yield     - Irrigated Paddy ton     - Palawija 2/ tha     Increment (With - Present)     1. Land Use     - Paddy ba     Paddy ba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>43,446<br>43,446<br>40,000<br>100<br>000<br>Wet<br>5,00<br>4000<br>Wet<br>5,00<br>4000<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>5,00<br>4000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | idy Field<br>igable La<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>3,273<br>3,273<br>3,273<br>3,273<br>5,00<br>5,00<br>5,00<br>5,00<br>5,00<br>5,00<br>5,00<br>5,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>Annual<br>6,547<br>172<br>6,719<br>190<br>190<br>195<br>195<br>195<br>195<br>Annual<br>32,735<br>860<br>5.0<br>e (hybrid)<br>ha<br>ha<br>Annual<br>816                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>United<br>100<br>Wet<br>5,050<br>Wet<br>5,650<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                           | dy Field<br>gable Lai<br><i>t Area</i><br>Dry 1<br>113<br>113<br>113<br>0<br>0<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                        | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>100<br>100<br>Dry II<br>5,650<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4,5<br>Wet<br>11,250<br>Irri. Padawija<br>Irri. Padawija                                                                                                 | ddy Field<br>figable Lai<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,7500<br>Dry II<br>6,750<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>7,14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>Annual<br>4,000<br>250<br>4,250<br>Annual<br>160<br>170<br>Annual<br>4,55<br>c<br>Annual<br>18,000<br>1,250<br>1,250<br>c<br>4,5<br>c<br>c<br>(hybrid)<br>ha<br>ha<br>ha<br>Annual<br>714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>10,220<br>Wet<br>10,220<br>Irri. Padawija T<br>Irri. Pad<br>Subject<br>Wet<br>202                     | dy Field<br>gable Lar<br>gable Lar<br>gable Lar<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>10<br>0<br>10<br>0<br>10<br>0<br>1,020<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>2,044<br>Dry II<br>1000<br>00<br>Dry II<br>10,220<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>10<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>Wet<br>100<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074<br>Wet<br>3,074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ddy Field<br>igable Land<br>21 Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                 | 683<br>284<br>967<br>Dry II<br>478 68<br>546<br>Dry II<br>70<br>10<br>800<br>56<br>Dry II<br>2,151<br>340<br>c<br>458<br>663<br>0<br>Dry II<br>2,151<br>340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>ha<br>Annual<br>1,161<br>68<br>1,229<br>Annual<br>170<br>10<br>1800<br><i>127</i><br>Annual<br>4,5<br>25<br>340<br>-<br>4,52<br>340<br>-<br>4,52<br>340<br>-<br>4,52<br>340<br>-<br>4,53<br>-<br>2<br>-<br>4,53<br>-<br>2<br>-<br>4,53<br>-<br>2<br>-<br>4,53<br>-<br>2<br>-<br>4,53<br>-<br>2<br>-<br>2<br>-<br>2<br>-<br>2<br>-<br>2<br>-<br>2<br>-<br>2<br>-<br>2<br>-<br>2<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>3766<br>Wet<br>100<br>833<br>Wet<br>4.5<br>Wet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                                                 | ldy Field<br>igable Landreit<br><i>Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0            | 376<br>76<br>452<br>Dry II<br>263<br>38<br>301<br>Dry II<br>70<br>10<br>80<br>67<br>Dry II<br>1,184<br>190<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>ha<br>6399<br>38<br>677<br>Annual<br>170<br>10<br>1800<br><i>150</i><br>Annual<br>4.5<br>c (hybrid)<br>ha<br>ha<br>ha<br>Annual<br>4.5                                                                                                                                                                                                                                                        | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                                           | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>55<br>Dry II<br>7,260<br>725<br>d by maize<br>2,181<br>0<br>Dry II<br>1,152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>4,502<br>Annual<br>150<br>5<br>155<br>155<br>155<br>155<br>7155<br>Annual<br>21,785<br>725<br>5.0<br>c (hybrid)<br>ha<br>ha<br>Annual<br>1 152                                                                                                                                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,010<br>2,010<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,050<br>Wet<br>10,050<br>Irri. Pad<br>Subjecc<br>Wet                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | dy Field<br>gable Lan<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>6,00<br>0<br>Dry II<br>6,030<br>1,005<br>1,005<br>1,005<br>810<br>0<br>Dry II<br>494                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ha<br>ha<br>ha<br>Annual<br>3,216<br>201<br>3,417<br>Annual<br>1600<br>170<br><i>170</i><br><i>Annual</i><br>16,080<br>1,005<br>5,0<br>(hybrid)<br>ha<br><i>ha</i><br>Annual<br>494                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 5/     // Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy ton     - Palawija 2/ ton     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>3,446<br>Wet<br>0 100<br>100<br>Wet<br>17,230<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | idy Field<br>igable La.<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>3,273<br>Dry
II<br>90<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>0<br>850<br>850<br>860<br>860<br>860<br>860<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>15,505<br>860<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17,500<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,100<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>14,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,00000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,000<br>17,0000<br>17,0000<br>17,0000<br>17,0000<br>17,0000<br>17,0000<br>17,0000<br>17,00000<br>17,0000000000 | ha<br>ha<br>Annual<br>6,547<br>172<br>6,719<br>Annual<br>195<br>195<br>195<br>Annual<br>32,735<br>860<br>5.0<br>e (hybrid)<br>ha<br>ha<br>Annual<br>816<br>172                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>0                                                                                         | dy Field<br>gable Lau<br><i>t Area</i><br>Dry 1<br>113<br>Dry 1<br>0<br>100<br>100<br>100<br>100<br>Dry 1<br>5.00<br>Dry 1<br>0<br>565<br>                                                                                | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>1,130<br>Dry II<br>5,00<br>Dry II<br>5,60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ha<br>ha<br>Annual<br>2,260<br>113<br>2,373<br>200<br>100<br>210<br>210<br>210<br>210<br>4<br>Annual<br>11,300<br>565<br>5.0<br>0<br>(hybrid)<br>ha<br>ha<br>Annual<br>1300<br>113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Irri. Pad<br>Non-irr<br>Subjee<br>Wet<br>2,500<br>2,500<br>Wet<br>100<br>100<br>Wet<br>4,5<br>4,5<br>Wet<br>11,250<br>Palawija<br>Irri. Padawija                                                                                        | ddy Field<br>rigable Lai<br>ct Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>2250<br>1,750<br>Dry II<br>6,750<br>1,00<br>70<br>0 Dry II<br>6,750<br>1,250<br>1,250<br>1,250<br>1,250<br>0 Dry II<br>714<br>2,500<br>1,714<br>2,500<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,750<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,714<br>1,                                                                | ha<br>ha<br>Annual<br>160<br>170<br>170<br>Annual<br>18,000<br>1,250<br>4,5<br>e (hybrid)<br>ha<br>ha<br>Annual<br>7,14<br>2,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subject<br>2,044<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>10,220<br>Wet<br>10,220<br>Irri. Pad<br>Subject<br>Wet<br>202                                              | dy Field<br>gable Lar<br>( <i>Area</i><br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                           
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Pac<br>Non-irr<br>Subjec<br>Wet<br>683<br>683<br>Wet<br>100<br>71<br>Wet<br>4.5<br>Wet<br>3,074<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>663                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ddy Field<br>igable Laat<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                             | 683<br>2849<br>967<br>Dry II<br>4788<br>688<br>546<br>Dry II<br>70<br>100<br>800<br>566<br>Dry II<br>2,151<br>340<br>0<br>Dry II<br>458<br>663<br>0<br>0<br>Dry II                                                                       
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Pac<br>Non-irr<br>Subjec<br>Wet<br>100<br>83<br>Wet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet                                                                                                                               | ldy Field<br>igable Lau<br><i>T Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 376<br>76<br>452<br>Dry II<br>263<br>301<br>Dry II<br>70<br>80<br>67<br>00<br>80<br>67<br>00<br>77 II<br>1,184<br>190<br>0 Dry II<br>263<br>3<br>3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ha<br>ha<br>Annual<br>1639<br>38<br>677<br>Annual<br>170<br>180<br>150<br>Annual<br>2,876<br>190<br>4.5<br>c (hybrid)<br>ha<br>ha<br>Annual<br>439<br>3<br>3                                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>2,905<br>2,905<br>2,905<br>2,905<br>100<br>100<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0                                                                       | ldy Field<br>igable Lar<br><i>Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0    | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>5,55<br>5,55<br>Dry II<br>5,00<br>5,00<br>7,260<br>7,250<br>7,250<br>7,250<br>7,250<br>7,251<br>0<br>5,00<br>7,251<br>7,251<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
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Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br><i>100</i><br>Wet<br>10,050<br>Wet<br>10,050<br>Irri. Pad<br>Subjec<br>Wet<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                      | ha<br>ha<br>ha<br>3,216<br>201<br>3,417<br>Annual<br>160<br>170<br>Annual<br>16,080<br>1,005<br>5.0<br>(hybrid)<br>ha<br>ha<br>Annual<br>494<br>201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1. Land Use     1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Irrigated Paddy ton     - Irrigated Paddy ton     - Irrigated Paddy ton     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Paddy ton     - Paddy ha     - Others     - Paddy     - Na     - Total ha     - Total ha     - Total ha     - Dithers     - Na     - Total     - Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>3,446<br>0 100<br>100<br>Wet<br>5.0<br>0 100<br>Wet<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>17,230<br>1 | idy Field<br>igable La:<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>1722<br>3,273<br>Dry II<br>90<br>0<br>5<br>95<br>95<br>95<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                | ha<br>ha<br>ha<br>Annual<br>6,547<br>2,7719<br>4,7119<br>0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>5<br>0,0<br>7<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0,0<br>19<br>5<br>5<br>0<br>0<br>5<br>10<br>5<br>5<br>0,0<br>10<br>5<br>5<br>10<br>5<br>5<br>0<br>0<br>5<br>5<br>10<br>5<br>5<br>10<br>5<br>5<br>10<br>5<br>5<br>10<br>5<br>5<br>5<br>5 | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>100<br>100<br>Wet<br>5.0<br>Wet<br>5.650<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0                                                                      | dy Field<br>gable La. Area<br>Dry I<br>1133<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                       | 1,130<br>nd<br>1,130<br>Dry II<br>0 1,130<br>0 0<br>0 100<br>100<br>0 0<br>0 0<br>0 0<br>0 5,650<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>Annual<br>2,260<br>2100<br>2100<br>2100<br>2100<br>2100<br>2100<br>2100<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Subjec<br>Wet<br>2,500<br>Wet<br>100<br>Wet<br>4.5<br>Wet<br>11,250<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0                                                                                   | ddy Field         figable Lai           ct Area         Dry I           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>Dry II<br>60<br>Dry II<br>4,5<br>5,0<br>Dry II<br>6,750<br>1,250<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>6,750<br>0<br>Dry II<br>7,750<br>0<br>Dry II<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7, | ha<br>ha<br>ha<br>4,000<br>250<br>4,250<br>160<br>170<br>170<br>Annual<br>4,5<br>-<br>-<br>-<br>Annual<br>18,000<br>1,250<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,220<br>Palawija i<br>Irri. Pad<br>Subject<br>Wet<br>202<br>202                                                   | dy Field<br>gable Lar<br>( <i>Area</i><br>Dry I<br>204<br>204<br>Dry I<br>0<br>10<br>10<br>0<br>Dry I<br>5.0<br>Dry I<br>5.0<br>0<br>1,020<br>cepresented<br>( <i>Area</i><br>Dry I<br>0<br>204<br>204<br>204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,044<br>id<br>2,044<br>2,044<br>2,044<br>2,044<br>2,044<br>1000<br>1000<br>1000<br>1000<br>1000<br>000                                                                                               | ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>100<br>210<br>210<br>210<br>Annual<br>20,440<br>1,020<br>5,0<br>e
(hybrid)<br>ha<br>ha<br>Annual<br>1,020<br>4,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,                  | Irri. Paca<br>Non-irri.<br>Subjec<br>683<br>883<br>Wet<br>100<br>711<br>Wet<br>4.5<br>9<br>Palawija<br>1rri. Paca<br>Subjec<br>663<br>663                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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II<br>478<br>68<br>546<br>Dry II<br>4.5<br>5.0.<br>Dry II<br>2.151<br>340<br>0<br>Dry II<br>4.5<br>5.0.<br>Dry II<br>4.5<br>5.0.<br>Bry II<br>663<br>0<br>Dry II<br>4.5<br>5.0.<br>Bry II<br>5.0.<br>Bry II<br>5.0.<br>S.0.<br>Bry II<br>5.0.<br>Bry II<br>5. | ha<br>ha<br>Annual<br>1,161<br>68<br>1,229<br>Annual<br>170<br>180<br>180<br>127<br>Annual<br>5,225<br>6 (hybrid)<br>4.5<br>e (hybrid)<br>ha<br>ha<br>Annual<br>1,121<br>68<br>1,180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                      | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>833<br>Wet<br>4.5<br>Wet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>176                                                                                           | ldy Field<br>igable Lau<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 376<br>76<br>452<br>Dry II<br>263<br>301<br>Dry II<br>4.5<br>5.0<br>Dry II<br>1,184<br>1,184<br>190<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ha<br>ha<br>ha<br>639<br>38<br>677<br>Annual<br>170<br>180<br>180<br>Annual<br>4.5<br>-<br>-<br>Annual<br>2,876<br>190<br>4.5<br>c (hybrid)<br>ha<br>ha<br>Ana<br>439<br>3<br>442                                                                                                                                                                                                                         | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,905<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjecc<br>Wet<br>0<br>0                                                                                      | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>5,0<br>5,5<br>5<br>5,5<br>Dry II<br>5,0<br>7,260<br>725<br>d by maize<br>2,181<br>0<br>Dry II<br>1,152<br>1,457                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ha<br>ha<br>Annual<br>4,337<br>143<br>4,502<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,050<br>Wet<br>10,050<br>Wet<br>10,050<br>Uff<br>Wet<br>10,050<br>Uff<br>Wet<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dy Field<br>gable Lan<br><i>I Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>600<br>0<br>Dry II<br>6,030<br>5,0<br>5,0<br>5,0<br>0<br>Dry II<br>6,030<br>0<br>Dry II<br>6,030<br>0<br>Dry II<br>494<br>201<br>695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     0verall to Subject Area %     4. Crop Yield     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use     - Paddy ha     - Others ha     - Others ha     - Others ha     - Others Total ha     - Others ha     - Others Total ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>3,446<br>Wet<br>100<br>100<br>100<br>Wet<br>17,230<br>Palawija<br>Irri. Pad<br>Subjece<br>Wet<br>527<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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II<br>5 0<br>5 0<br>0 5 0<br>0 15,505<br>8 860<br>15,505<br>8 860<br>107 II<br>0 15,505<br>8 860<br>107 II<br>0 17,107<br>107<br>107<br>107<br>107<br>107<br>107<br>107<br>107<br>107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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ha<br>ha<br>ha<br>Annual<br>6,547<br>1722<br>6,719<br>4,075<br>5,075<br>795<br>795<br>795<br>795<br>795<br>795<br>795<br>795<br>795<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>1,130<br>Wet<br>5,050<br>Wet<br>5,650<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>0                                                               | dy Field<br>gable La<br>Dry I<br>113<br>Dry I<br>0<br>100<br>100<br>Dry I<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>100<br>0<br>100<br>Dry II<br>5,650<br>0<br>0<br>Dry II<br>5,650<br>0<br>0<br>Dry II<br>5,650<br>0<br>0<br>Dry II<br>130<br>0<br>0<br>Dry II<br>0<br>0<br>0<br>Dry II<br>130<br>0<br>Dry II<br>1300<br>0<br>Dry II<br>1300<br>0<br>Dry II<br>1300<br>Dry III<br>1300<br>Dry II<br>1300<br>Dry II<br>100<br>Dry II<br>100<br>Dry II<br>100<br>Dry I | ha<br>ha<br>ha<br>2,260<br>113<br>2,000<br>10<br>2,373<br>2,000<br>10<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000 | Irri. Paa<br>Non-irri<br>Subject<br>2,500<br>Wet<br>100<br>Wet<br>4.5<br>Wet<br>11,250<br>Wet<br>Palawija<br>Subject<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0              | ddy Field<br>figable Lai<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,7500<br>Dry II<br>6,700<br>Dry II<br>6,750<br>1,2500<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>1,2500<br>0<br>Dry II<br>7114<br>714<br>250<br>964<br>Dry II<br>7014<br>Dry II<br>7014<br>7014<br>7017<br>7017<br>7017<br>7017<br>7017<br>7017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>10,220<br>Wet<br>Inri. Pad<br>Subject<br>Wet<br>202<br>Wet                                            | dy Field<br>gable Lar<br>Dry 1<br>204<br>204<br>204<br>204<br>204<br>10<br>10<br>10<br>0<br>10<br>0<br>0<br>0<br>1,020<br>1,020<br>1,020<br>2,024<br>4<br><i>Area</i><br>Dry 1<br>4<br><i>Area</i><br>204<br>4<br><i>Area</i><br>204<br>4<br><i>Dry</i> 1<br>204<br>204<br>204<br>204<br>204<br>204<br>204<br>204<br>204<br>204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Subjec<br>Wet<br>176                                                                                                  | ldy Field<br>igable Lau<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 3766<br>766<br>4522<br>Dry III<br>263<br>300<br>Dry III<br>700<br>800<br>77<br>Dry II<br>1,184<br>4,5<br>5,0,0<br>Dry III<br>1,184<br>4,5<br>5,0,0<br>Dry III<br>1,184<br>4,5<br>5,0,0<br>Dry III<br>1,184<br>4,5<br>5,0,0<br>Dry III<br>1,184<br>4,5<br>2,5<br>2,5<br>2,5<br>2,5<br>2,5<br>2,5<br>2,5<br>2,5<br>2,5<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ha<br>ha<br>Annual<br>639<br>38<br>677<br>70<br>10<br>10<br>180<br>8677<br>70<br>10<br>10<br>180<br>8677<br>70<br>877<br>877<br>877<br>877<br>877<br>877<br>877<br>877<br>87                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0                                                                                   | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>5,0<br>5,5<br>5,5<br>5,5<br>Dry II<br>7,260<br>7,25<br>0<br>Dry II<br>7,260<br>7,25<br>2,181<br>0<br>Dry II<br>1,152<br>1,297<br>Dry II<br>0<br>Dry II<br>7,260<br>7,25<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1       | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>5<br>155<br>5<br>5<br>155<br>5<br>5<br>7<br>2<br>1785<br>7<br>2<br>1785<br>7<br>2<br>7<br>8<br>5<br>0<br>0<br>1<br>5<br>5<br>0<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>5<br>5<br>5<br>1<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | Irri. Pad<br>Non-irri<br>Subjec:<br>Wet<br>2,010<br>2,010<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,050<br>Wet<br>Uo<br>050<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>Uo<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>00<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO<br>UO | dy Field<br>gable Lan<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>6,00<br>Dry II<br>5,0<br>5,0<br>Dry II<br>6,030<br>1,005<br>1,005<br>1,005<br>810<br>0<br>Dry II<br>494<br>201<br>0<br>Dry II<br>695<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
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| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha     Total ha     3. Cropping Intensity 7/     - Paddy %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>3,446<br>Wet<br>100<br>100<br>Wet<br>17,230<br>Palawija<br>Irri. Pad<br>Subjece<br>Wet<br>5,27<br>Subjece<br>5,27<br>Subjece<br>5,27<br>Wet<br>5,27<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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II<br>90<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>0 95<br>5.0<br>5.0<br>0 5.0<br>0 0<br>0 15,505<br>0 860<br>0 0<br>0 0<br>15,505<br>0 0<br>0 0<br>15,505<br>0 0<br>0 0<br>15,505<br>0 0<br>0 0<br>112<br>289<br>107<br>110<br>122<br>107<br>10<br>117<br>12<br>12<br>10<br>12<br>12<br>10<br>12<br>12<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>00<br>00<br>00<br>Wet<br>5,650<br>-<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>Wet<br>0<br>0                                                | dy Field<br>gable La.<br>Dry I<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>100<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                     | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>1,130<br>Dry II<br>5,00<br>Dry II<br>5,60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Pas<br>Subject State<br>2,500<br>Wet<br>1000<br>Wet<br>11,250<br>HIL250<br>HIL250<br>HIL250<br>HIL250<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                       | ddy Field           rigable Lai           ct Area           Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>2,044<br>Wet<br>1000<br>Wet<br>5,00<br>Wet<br>1000<br>Wet<br>1000<br>Palawija r<br>Irri. Pad<br>Subject<br>Wet<br>2022<br>Wet<br>2022<br>Wet    | dy Field<br>dy Field<br>Dry 1<br>204<br>204<br>Dry 1<br>10<br>0<br>0<br>10<br>10<br>0<br>0<br>10<br>0<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                    | 2,044<br>id<br>2,044<br>2,044<br>Dry II 10<br>1000<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0                                                                                            | ha<br>ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>0<br>10<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>20,440<br>1,020<br>1,020<br>6 (hybrid)<br>6,0<br>6 (hybrid)<br>ha<br>ha<br>Annual<br>4,86<br>2,04<br>4,292<br>2,04<br>2,04<br>2,04<br>2,04<br>2,04<br>2,04<br>2,04<br>2,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Irri. Paca<br>Non-irr<br>Subject<br>683<br>683<br>083<br>083<br>080<br>100<br>110<br>100<br>110<br>100<br>110<br>100<br>110<br>100<br>110<br>100<br>110<br>100<br>110<br>100<br>110<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | ddy Field<br>igable Lau<br><i>zt Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                           | 6833<br>284<br>9675<br>277<br>10ry II<br>100<br>7070<br>7070<br>7070<br>7070<br>7070<br>7070<br>707                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                              | ha<br>ha<br>ha<br>Annual<br>1,161<br>66<br>8<br>4<br>1,222<br>4<br>700<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>83<br>Wet<br>4.5<br>Vet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>176<br>Wet<br>176                                                                              | ldy Field<br>igable Lau<br><i>Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | 37667<br>452<br>476<br>476<br>476<br>477<br>475<br>475<br>475<br>475<br>475<br>475<br>475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ha<br>ha<br>ha<br>Annual<br>338<br>677770<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10                                                                                                                                                                                                                                                                                                   | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>Wet<br>0                                                            | ldy Field<br>igable Lar<br><i>Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0    | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>5,55<br>5,55<br>Dry II<br>5,00<br>5,00<br>7,260<br>7,260<br>7,260<br>7,260<br>7,260<br>7,25<br>7,25<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797                 | ha<br>ha<br>ha<br>Annual<br>4,357<br>1454<br>5,5<br>1555<br>7155<br>7155<br>7155<br>7255<br>7255<br>7255<br>725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,010<br>Wet<br>1000<br>Wet<br>5.0<br>Wet<br>10,050<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>Wet<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | dy Field<br>gable Lan<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>2011<br>1,407<br>Dry II<br>400<br>10<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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      Annual           16,080           5,0           (hybrid)           ha           Annual           494           401           695           Annual           1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 1. Land Use     1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ 9%     Corp Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha     Total ha     3. Cropping Intensity 7/     - Paddy %     // Padd | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>3,446<br>Wet<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,0000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,000<br>0,0000<br>0,0000<br>0,000000                                                                                                                                                                                                                                                                                                                                                                                                                                    | ddy Field<br>digable La Carter and C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>1722<br>3,273<br>Dry II<br>90<br>95<br>95<br>95<br>95<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>95<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97                                                                                                                                                                                                                                 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ha<br>ha<br>ha<br>Annual<br>6,547<br>177<br>177<br>195<br>5<br>195<br>5<br>195<br>5<br>195<br>5<br>195<br>5<br>4<br>Annual<br>5<br>32,735<br>860<br>5<br>.0.0<br>5<br>.0.0<br>5<br>.0.0<br>5<br>.0.0<br>5<br>.0.0<br>5<br>.0.0<br>5<br>.0.0<br>5<br>.0.0<br>19<br>5<br>.0.5<br>4<br>.0.0<br>19<br>.0.5<br>4<br>.0.0<br>19<br>.0.5<br>4<br>.0.0<br>19<br>.0.5<br>.0.0<br>19<br>.0.5<br>.0.5<br>.0.5<br>.0.5<br>.0.5<br>.0.5<br>.0.5<br>.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>100<br>100<br>Wet<br>5,00<br>Wet<br>Set<br>0<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | dy Field<br>gable La.<br>Dry I<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>10<br>0<br>0<br>0                                                                                                        | 1,130<br>nd<br>1,130<br>Dry II<br>0 100<br>100<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 5,650<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>ha<br>2,260<br>2,373<br>2,373<br>2,000<br>10<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Irri. Paa<br>Subject<br>2,500<br>Wet<br>2,500<br>Wet<br>4,5<br>Wet<br>11,250<br>Wet<br>Irri. Paa<br>Subject<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                              | ddy Field         figable Lai           ct Area         Dry 1           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>Dry II<br>600<br>Dry II<br>4.5<br>5.0<br>Dry II<br>6,750<br>1,250<br>Dry II<br>6,750<br>1,250<br>1,250<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ha<br>ha<br>ha<br>4,000<br>250<br>4,250<br>Annual<br>160<br>170<br>170<br>Annual<br>18,000<br>1,250<br>4,55<br>e (hybrid)<br>ha<br>ha<br>ha<br>Annual<br>714<br>250<br>964<br>Annual<br>714<br>250<br>0<br>964<br>Annual<br>714<br>250<br>0<br>964<br>Annual<br>714<br>250<br>0<br>964<br>Annual<br>714<br>714<br>714<br>714<br>714<br>714<br>714<br>714<br>714<br>714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,220<br>Palawija r<br>Irri. Pad<br>Subject<br>Wet<br>202<br>Wet<br>202<br>Wet<br>100<br>0 0                       | dy Field<br>agable Lar<br>Area<br>Dry 1<br>204<br>204<br>Dry 1<br>0<br>10<br>10<br>0<br>10<br>0<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>0<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,00 | 2,044<br>bid<br>2,044<br>Dry II 2,044<br>2,044<br>Dry II 1000<br>0 0<br>Dry II 5,00<br>0<br>Dry II 10,220<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | ha<br>ha<br>ha<br>Annual<br>2004<br>210<br>210<br>2100<br>Annual<br>20,440<br>1,020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                         | Irri. Paca<br>Non-irri<br>Subject<br>Wet<br>1000<br>711<br>Wet<br>4.5<br>Wet<br>3.074<br>Palawija<br>Irri. Pac<br>Subject<br>663<br>663<br>Wet<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ddy Field         figable Lau           itgable Lau         threa           Dry I         0           Dry I         0           O         0           Dry I         0           O         0           O         0           O         0 | 6833<br>284<br>96757<br>Dry II 1<br>478<br>68<br>68<br>546<br>Dry II 1<br>4556<br>50<br>0<br>0<br>10<br>0<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>0<br>0<br>10<br>1                                                                     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(hybrid)<br>ha<br>ha<br>Annual<br>1,122<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4,129<br>4, 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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>Wet<br>100<br>833<br>Wet<br>4.5<br>Wet<br>1,692<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>176<br>Wet<br>176<br>00<br>0      
                                                           | ldy Field<br>igable Lau<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 37667<br>76677<br>77677<br>77777<br>77777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>7777<br>77777<br>77777<br>77777<br>77777<br>77777<br>77777<br>77777<br>777777 | ha<br>ha<br>ha<br>Annual<br>639<br>388<br>6777<br>10<br>10<br>10<br>1808<br>550<br>550<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,905<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjecc<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | ldy Field<br>igable Lar<br>(1 Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>50<br>55<br>55<br>Dry II<br>5,0<br>7,260<br>725<br>0<br>7,260<br>7,25<br>d by maize<br>2,181<br>0<br>Dry II<br>1,152<br>1,457<br>7,260<br>7,25<br>0<br>7,25<br>0<br>7,25<br>0<br>7,260<br>7,25<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1,997<br>1, | ha<br>ha<br>ha<br>Annual<br>4,357<br>1454<br>4,502<br>4,502<br>5155<br>5155<br>5155<br>5155<br>5155<br>725<br>725<br>725<br>725<br>725<br>725<br>725<br>725<br>725<br>7                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dy Field<br>gable Lan<br><i>I Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>5.0<br>70<br>Dry II<br>5.0<br>Dry II<br>5.0<br>Dry II<br>5.0<br>0<br>Dry II<br>407<br>0<br>Dry II<br>407<br>0<br>Dry II<br>5.0<br>5.0<br>0<br>Dry II<br>407<br>0<br>Dry II<br>5.0<br>5.0<br>0<br>Dry II<br>407<br>0<br>Dry II<br>5.0<br>5.0<br>0<br>Dry II<br>407<br>1,407<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
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| 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Scropping Intensity 7/     - Irrigated Paddy / %     - Palawija 2/ ha     Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy / tha     - Palawija 2/ tha     Scrop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av, Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     Copped Area     - Paddy ha     - Others ha     Others ha     Cothers %     Others %     Others %     Total %     Public Paddy %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>3,446<br>Wet<br>100<br>100<br>100<br>Wet<br>17,230<br>Palawija<br>Subjec<br>Wet<br>5,27<br>Wet<br>5,27<br>Wet<br>5,27<br>Wet<br>5,27<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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3,446<br>nd<br>3,446<br>Dry II<br>3,010<br>172<br>3,273<br>0 95<br>95<br>95<br>95<br>95<br>97<br>10<br>90<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5<br>0<br>15<br>5<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>United<br>100<br>Wet<br>5,650<br>Wet<br>S,650<br>United<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | dy Field<br>gable La<br>Dry I<br>113<br>Dry I<br>0<br>100<br>100<br>100<br>Dry I<br>5.0.0<br>Dry I<br>0<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                            
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ha<br>ha<br>ha<br>2,260<br>113<br>2,000<br>10<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2,010<br>2, | Irri. Pan<br>Subject<br>2,500<br>Wet<br>2,500<br>Wet<br>4,5<br>Wet<br>11,250<br>Wet<br>Irri. Pan<br>Subjec<br>Wet<br>0<br>0<br>0<br>Wet<br>45<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | ddy Field<br>figable Lau<br>ct Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>250<br>1,7500<br>Dry II<br>6,750<br>0<br>Dry II<br>6,750<br>1,2500<br>1,2500<br>1,2500<br>0<br>Dry II<br>7,14<br>6,750<br>1,2500<br>0<br>Dry II<br>7,15<br>0<br>Dry II<br>7,15<br>0<br>Dry II<br>7,15<br>0<br>Dry II<br>6,750<br>1,2500<br>1,2500<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,2500<br>0<br>Dry II<br>6,750<br>1,250<br>0<br>Dry II<br>7,70<br>0<br>Dry II<br>7,70<br>0<br>Dry II<br>7,70<br>0<br>Dry II<br>7,70<br>0<br>Dry II<br>7,70<br>0<br>Dry II<br>7,70<br>0<br>Dry II<br>7,750<br>0<br>Dry II<br>7,750<br>0<br>Dry II<br>7,750<br>0<br>Dry II<br>7,750<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry II<br>7,710<br>0<br>Dry
II<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710<br>7,710 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ha<br>ha<br>Annual<br>4,000<br>250<br>4,250<br>0<br>100<br>170<br>Annual<br>4,5<br>-<br>-<br>-<br>Annual<br>18,000<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1, | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>100<br>100<br>100<br>Wet<br>S.0<br>Wet<br>10,220<br>Wet<br>Urri. Pad<br>Subject<br>Wet<br>202<br>202<br>Wet<br>10<br>0<br>0<br>0                | dy Field<br>agable Lar<br>Dry 1<br>204<br>204<br>204<br>204<br>207<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2,044<br>ad<br>2,044<br>Dry II<br>2,044<br>2,044<br>Dry II<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                         | ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>100<br>2100<br>Annual<br>5,00<br>-<br>6
(hybrid)<br>ha<br>ha<br>Annual<br>486<br>204<br>690<br>Annual<br>486<br>204<br>690<br>Annual<br>486<br>204<br>690<br>00<br>210<br>1,020<br>8,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020        | Irri, Paca<br>Non-irri, Subjeci<br>683<br>0683<br>Wet<br>1000<br>771<br>Wet<br>4.5<br>Wet<br>3.074<br>Wet<br>3.074<br>Wet<br>9<br>Palawija<br>Irri, Paca<br>Subjeci<br>663<br>Wet<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                   | 6833<br>2849<br>967572<br>Dry III<br>478<br>686<br>8546<br>Dry II<br>2,151<br>0<br>0<br>0<br>0<br>101<br>0<br>101<br>101<br>803<br>605<br>0<br>0<br>0<br>0<br>17 III<br>4,5<br>8,6<br>663<br>0<br>0<br>0<br>17 III<br>4,5<br>8<br>663<br>0<br>0<br>0<br>17 III<br>4,5<br>8<br>6<br>6<br>6<br>6<br>3<br>0<br>0<br>17<br>11<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>17<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                           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ha<br>ha<br>ha<br>Annual<br>1,161<br>68<br>1,229<br>Annual<br>1707<br>10<br>10<br>1808<br>77<br>Annual<br>4,5,5<br>5,225<br>3,40<br>4,5,5<br>3,40<br>4,5,5<br>5,225<br>3,40<br>4,5,5<br>4,5,5<br>6,6,7,10<br>ha<br>ha<br>ha<br>Annual<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,129<br>1,12 | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>100<br>83<br>Wet<br>1,692<br>-<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>1766<br>Wet<br>100<br>0<br>0                                                                                          | ldy Field<br>igable Lau<br><i>T Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 3766<br>766<br>452<br>263<br>388<br>301<br>Dry II<br>700<br>800<br>67<br>70<br>Dry II<br>1,184<br>1,184<br>1,184<br>1,184<br>1,184<br>1,184<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>17<br>16<br>0<br>0<br>0<br>17<br>16<br>17<br>16<br>18<br>19<br>19<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha<br>Annual<br>639<br>38<br>6777<br>Annual<br>1700<br>100<br>1800<br>Annual<br>2,876<br>Annual<br>2,876<br>4,5<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>190                                                                                                                                                                                                                      | Irri. Pad<br>Non-irri<br>Subjec:<br>Wet<br>2,905<br>Wet<br>100<br>Wet<br>5,0<br>Wet<br>14,525<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0                                                  | ldy Field<br>igable Lar<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>5,0<br>5,5<br>5,5<br>Dry II<br>7,260<br>7,25<br>d by maize<br>2,181<br>0<br>Dry II<br>1,152<br>1,297<br>Dry II<br>1,152<br>1,297<br>Dry II<br>1,55<br>4,297<br>Dry II<br>1,55<br>1,297<br>1,145<br>1,597<br>1,260<br>7,25<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260<br>1,260                | ha<br>ha<br>ha<br>Annual<br>4,357<br>145<br>5,155<br>5,155<br>5,155<br>725<br>725<br>5,0<br>6, (hybrid)<br>ha<br>ha<br>ha<br>Annual<br>1,155<br>725<br>725<br>725<br>725<br>725<br>725<br>725<br>725<br>725<br>7                                                                                                                                                                                                                                                                                                                                                                                | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,010<br>2,010<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>10,050<br>-<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | dy Field<br>gable Lan<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>201<br>1,407<br>Dry II<br>600<br>100<br>Try II<br>5.0<br>Dry II<br>5.0<br>Dry II<br>6,030<br>1,005<br>0<br>Dry II<br>6,050<br>0<br>Dry II<br>1,005<br>0<br>Dry II<br>1,015<br>0<br>Dry II<br>1,015<br>0<br>Dry II<br>1,015<br>1,015<br>0<br>1,015<br>0<br>Dry II<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1,015<br>1, | ha h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Cropping Intensity 7/     - Irrigated Paddy 2/     %     Palawija 2/ %     Overall to Subject Area %     Overall to Subject Area %     Crop Production     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     Crop Production     - Irrigated Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>3,446<br>Wet<br>100<br>Wet<br>17,230<br>Wet<br>17,230<br>Irri. Pad<br>Subjece<br>Wet<br>5,27<br>Supjece<br>Wet<br>5,27<br>Supjece<br>Wet<br>5,27<br>Supjece<br>Supjece<br>Wet<br>5,27<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supjece<br>Supje                                                                                                    | ddy Field         field           gable La         faraa           Dry I         0           O         0           O         0           O         0           O         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,446<br>nd<br>3,446<br>Dry II<br>3,101<br>172<br>0<br>3,273<br>Dry II<br>3,0<br>90<br>5<br>95<br>95<br>95<br>95<br>95<br>0<br>95<br>0<br>95<br>0<br>95<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                          | ha<br>ha<br>ha<br>Annual<br>6,547<br>172<br>6,719<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>1,130<br>00<br>00<br>00<br>00<br>00<br>Wet<br>5,650<br>-<br>Palawija<br>-<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | dy Field<br>gable La<br>Dry I<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                | 1,130<br>nd<br>1,130<br>Dry II<br>1,130<br>Dry II<br>1,130<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>ha<br>2,260<br>2,373<br>2000<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Irri. Park<br>Subject<br>2,500<br>Wet<br>2,500<br>Wet<br>1000<br>Wet<br>111,250<br>Irri. Park<br>Subject<br>0<br>0<br>0<br>Wet<br>45<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0          | ddy Field           right         Image: Construction of the second se | 2,500<br>nd<br>2,500<br>Dry II<br>1,500<br>0 1,750<br>0 10<br>0 10<br>0 10<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>1,250<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>1,751<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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Pad<br>Non-irri<br>Subject<br>Wet<br>2,044<br>Wet<br>2,044<br>Wet<br>100<br>Wet<br>5.0<br>Wet<br>102<br>Palawija r<br>Irri. Pad<br>Subject<br>Wet<br>202<br>Wet<br>202<br>Wet<br>10<br>0<br>0<br>100 | dy Field<br>dy Field<br>Area<br>Dry 1<br>204<br>204<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2,044<br>id<br>2,044<br>2,044<br>2,044<br>2,044<br>Dry II<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                  |
ha<br>ha<br>ha<br>Annual<br>4,088<br>204<br>4,292<br>Annual<br>200<br>0<br>10<br>210<br>210<br>210<br>210<br>210<br>210<br>2040<br>0<br>4,000<br>1,020<br>0<br>4,000<br>1,020<br>0<br>6,050<br>6,050<br>4,000<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1,020<br>1 | Irri, Paca<br>Non-irr<br>Subject<br>683<br>000<br>1000<br>1100<br>1100<br>1100<br>1100<br>1100<br>110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                            | 6833<br>2848/967672<br>Dry III<br>478<br>686<br>800<br>000 Dry II<br>4.5.2<br>546<br>6633<br>0<br>0<br>Dry II<br>4.5.2<br>6633<br>0<br>0<br>Dry II<br>458<br>6633<br>0<br>0<br>Dry II<br>458<br>6633<br>0<br>0<br>Dry II<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Pac<br>Non-irr<br>Subjec<br>Wet<br>376<br>0<br>00<br>0<br>0<br>83<br>Wet<br>4.5<br>4.5<br>4.5<br>9<br>2<br>9<br>2<br>9<br>2<br>9<br>2<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | ldy Field<br>igable Lau<br><i>Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | 37667<br>4522<br>4523<br>301<br>Dry II<br>263<br>301<br>Dry II<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ha<br>ha<br>ha<br>Annual<br>338<br>86777<br>100<br>100<br>100<br>100<br>150<br>Annual<br>4.55<br>2.876<br>190<br>4.5<br>2.876<br>190<br>4.5<br>2.876<br>190<br>4.5<br>2.876<br>190<br>4.5<br>2.876<br>190<br>4.5<br>2.876<br>190<br>190<br>4.5<br>2.876<br>190<br>4.5<br>2.876<br>190<br>4.5<br>2.876<br>190<br>190<br>4.5<br>2.876<br>190<br>190<br>190<br>190<br>190<br>190<br>190<br>190<br>190<br>190 | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>2,905<br>2,905<br>Wet<br>100<br>100<br>Wet<br>5,0<br>Wet<br>14,525<br>-<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0          | ldy Field<br>igable Lar<br>7 Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0         | 2,905<br>nd<br>2,905<br>Dry II<br>1,452<br>1,597<br>Dry II<br>5,55<br>5,55<br>Dry II<br>5,00<br>5,00<br>7,260<br>7,260<br>7,260<br>7,260<br>7,260<br>7,261<br>1,597<br>1,152<br>1,152<br>1,297<br>Dry II<br>1,52<br>1,297<br>Dry II<br>1,52<br>1,597<br>2,181<br>1,52<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,597<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797<br>1,797                | ha<br>ha<br>ha<br>Annual<br>4,357<br>1453<br>5,5<br>5,5<br>5,5<br>5,0<br>5,0<br>6,0<br>9,0<br>6,0<br>9,0<br>5,0<br>1,2<br>1,7<br>85<br>7,25<br>5,0<br>0,0<br>6,0<br>9,0<br>1,4<br>1,4<br>5,0<br>2,0<br>7,25<br>5,0<br>0,0<br>6,0<br>1,4<br>5,0<br>2,0<br>2,0<br>2,0<br>2,0<br>2,0<br>2,0<br>2,0<br>2,0<br>2,0<br>2                                                                                                                                                                                                                                                                              | Irri. Pad<br>Non-irri<br>Subjecc<br>Wet<br>2,010<br>Wet<br>1000<br>Wet<br>5.0<br>Wet<br>0<br>0<br>Wet<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | dy Field<br>gable Lan<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 2,010<br>d<br>2,010<br>Dry II<br>1,206<br>2010<br>1,407<br>Dry II<br>1,407<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ha<br>ha<br>ha<br>3,216<br>2011<br>3,417<br>4,400<br>100<br>1700<br>1700<br>1700<br>1700<br>1700<br>1700<br>17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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1/: Paddy grown under rainfed condition in irrigated field 2/: Palawija in irrigated field 3/: Palawija in upland field 4/: Cropping intensity in each land use category; Irri. Paddy Field, in rainfed field, respectively and overall to subject area 5/: Irrigation performances --- Cropping intensity of irrigated paddy & palawija in irrigated field; not including paddy grown under rainfed conditions 6/: Overall annual average paddy yield (annual paddy production + annual total cropped area of paddy) 7/: Cropping intensity in irrigated field

#### Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 4/7

District		Asahan -	continue	d														Sima	lungun													
Irrigation Scheme		25. Pur	wodadi			26. P	'entara		27	. Simanti	n Pane Da	me	28. Pan	ambean/F	Panet Tor	1gah BK	29. Ra	ija Homba	ng/T. Ma	ngaraja		30. Ke	rasaan		31. J.	Kolonisa	isi/Purbolo	onggo		32. Naga	Sompah	
I. Present/Before Project	. ·	1 5.11	1 625	ha	. ·	1 1 1 1	40	ha	1 · D 1	1 5.11		ha	1 · D 1	1 5.11	1 722	ha	I · D I	1 5.11	2 022	ha	т [.] р 11	F: 11	2 860	ha	I . D 11	E: 11	1.015	ha	I ' D I	1 5. 11	1.015	ha
I. Land Use	Irri. Pado	dy Field	1,635	ha	Irri. Pado	ly Field	40	ha	Irri. Pade	ly Field	1	ha	Irri. Pado	ly Field	1,722	ha ha	Irri. Pado Dainfod D	dy Field	2,025	ha	Irri. Padd	y Field	3,809	ha	Irri. Padd	ly Field	1,015	ha	Irri. Pado	ly Field	1,015	ha
	Uncultiv	ated Land		ha	Uncultiv	ated Lanc	d 258	ha	Unland I	field	1.000	ha	Uncultiv:	ated Land		ha	Uncultiv	ated Land	1	ha	Uncultiva	ated Land	275	ha	Uncultiva	ated Land	1	ha	Uncultiv	ated Land		ha
	Subjec	t Area	1,635	ha	Subjec	st Area	298	ha	Subjec	t Area	1,000	ha	Subjec	t Area	1,722	ha	Subjec	ct Area	2,023	ha	Subjec	t Area	4,144	ha	Subjec	t Area	. 1.015	ha	Subjec	t Area	1,015	ha
<ol><li>Cropped Area</li></ol>	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
<ul> <li>Irrigated Paddy ha</li> </ul>	1,635		1,619	3,254	40		20	60				0	1,653		1,702	3,355	2,007	7	1,251	3,258	2,697		2,715	5,412	1,010		989	1,999	1,003		489	1,492
- Paddy (Rainfed) 1/				0				0				0			_	0			500	0	60		0.60	0	_			0			500	0
- Palawija 2/ ha				0		<b></b>	20	20				0	3		7	/ 10	12	2	590	602	60		869	929	5		9	14	12		508	520
- Palawija 3/ ha				0		<u> </u>		0	1.000			1 000				0				0				0				0				0
Total ha	1.635	0	1.619	3.254	40	) (	J 40	80	1,000	0	0 0	1,000	1.656	0	1.709	3.365	2.019	0 0	1.841	3.860	2.757	0	3.584	6.341	1.015	0	998	2.013	1.015	0	997	2.012
3. Cropping Intensity 4/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
<ul> <li>Irrigated Paddy %</li> </ul>	100	0	99	199	100	0	) 50	150					96	0	99	9 195	99	0 0	62	161	70	0	70	140	100	0	97	197	99	0	48	147
- Paddy (Rainfed) 1/ %	0	0	0	0	0	0	) 0	0					0	0	C	) 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Palawija 2/ %	0	0 0	0	0	0	0	) 50	50					0	0	0	) 1	1 100		29	30	2	0	22	24	0	0	1	100	1	0	50	51
Dependent Prela 5/ %	100	0	99	199	100	0	) 100	200					96	0	99	195	100	) 0	91	191	/1	0	93	164	100	0	98	198	100	0	98	198
- Palawija 3/ %							+		100	0	0	100																				
Overall to Subject Area %	100	0	99	199	13	0	) 13	27	100	0	0 0	100	96	0	99	9 195	100	) 0	91	191	67	0	86	153	100	0	98	198	100	0	98	198
<ol><li>Crop Yield</li></ol>	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Irrigated Paddy t/ha	4.0		4.0	4.0	4.0		4.0	4.0					4.5		4.5	5 4.5	4.5	5	4.0	4.3	4.5		4.5	4.5	4.5		4.5	4.5	4.0		4.5	4.2
- Paddy (Rainfed) 1/						L	2.5						2.5		2.0		2.6		2.5		2.5		2.5		2.5		2.6		2.5		2.5	
<ul> <li>Palawija 2/ t/na</li> <li>Painfed Paddy t/ha</li> </ul>				-		<u> </u>	2.5					-	2.5		2.3		2.5	<u> </u>	2.5	-	2.5		2.5	-	2.5		2.5	-	2.5	$ \rightarrow$	2.5	
- Palawija 3/ t/ha									2.5			-																-				
5. Crop Production	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
<ul> <li>Irrigated Paddy ton</li> </ul>	6,540	0 0	6,476	13,016	160	0	) 80	240	0	0	) 0	0	7,439	0	7,659	9 15,098	9,032	2 0	5,004	14,036	12,137	0	12,218	24,354	4,545	0	4,451	8,996	4,012	0	2,201	6,213
<ul> <li>Paddy (Rainfed) 1/ton</li> </ul>	0			0	0			0	0			0	0			0	0	)		0	0			0	0			0	0			0
- Palawija 2/ ton	0	0	0	0	0	0	) 50	50	0	0	0 0	0	8	0	18	3 25	30	0 0	1,475	1,505	150	0	2,173	2,323	13	0	23	35	30	0	1,270	1,300
- Rainfed Paddy ton	0	0	0	0	0	6	0	0	2 500	0	0	2 500	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Palawija 5/ 100 Total Paddy Production ton	6 540	0	6 476	13.016	160		0 80	240	2,500	0		2,500	7 439	0	7 659	0 15 098	9.032		5 004	14 036	12 137	0	12 218	24 354	4 545	0	4 4 5 1	8 996	4 012	0	2 201	6 213
Total Taddy Troduction ton	0,540	0	0,470	15,010	Palawija r	represented	by maize (c	composite)	Palawija 1	epresented	by maize (	composite)	Palawija r	epresented	by maize (	(composite)	Palawija r	represented	by maize (	composite)	Palawija re	epresented l	by maize (	composite)	Palawija n	epresented	by maize (c	composite)	Palawija r	epresented 1	by maize (co	omposite)
6. Av. Paddy Yield 6/ t/ha	-	-	-	4.0	_			4.0			-		_	-		- 4.5		-	-	4.3		-	_	4.5	-		-	4.5		í -	_	4.2
II. With Project											-																					
1. Land Use	Irri. Pac	ddy Field	1,635	ha	Irri. Pac	ldy Field	221	ha	Irri. Pa	ddy Field	700	ha	Irri. Pac	ldy Field	1,722	2 ha	Irri. Pac	ddy Field	2,023	ha	Irri. Pad	dy Field	4,062	ha	Irri. Pad	dy Field	1,015	ha	Irri. Pac	idy Field	1,015	ha
	Non-IIT	igable Lai	1625	ha	Non-IIT	Igable La	1 //	ha	Non-Irr	igable La	1 300	ha	Non-Irr	igable Lai	nd 1 722	na ha	Non-III	rigable La	nd 2.022	ha	Non-Irri	gable Lai	82	ha	Non-IIII	gable La	nd 1.015	ha	Non-IIT	igable Lan	id 1.015	ha
2 Cronned Area	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	1,722 Dry II	Annual	Wet	Dry I	2,025	Annual	Wet	Dry I	4,144 Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Irrigated Paddy ha	1,635	Dij i	1,635	3,270	221	Diji	111	332	700	Diji	350	1,050	1,722	Dijî	1,722	3,444	2,023	3	2,023	4,046	4,062	Diji	3,250	7,312	1,015	Diji	1,015	2,030	1,015	Diji	1,015	2,030
- Palawija 2/ ha		328		328			22	22			70	70	, í	344	í í í	344	, in the second s	607	í í í	607			812	812	, in the second s	204		204		305		305
Total ha	1,635	328	1,635	3,598	221	0	) 133	354	700	0	420	1,120	1,722	344	1,722	3,788	2,023	607	2,023	4,653	4,062	0	4,062	8,124	1,015	204	1,015	2,234	1,015	305	1,015	2,335
3. Cropping Intensity 7/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Irrigated Paddy %	100	20	100	200	100	0	) 50	150	100	0	50	150	100	20	100	200	100	0 0	100	200	100	0	80	180	100	0	100	200	100	0	100	200
- raiawija 2/ 70 Total %	100	20	100	20	100	0	$\frac{10}{10}$	160	100	0	60	160	100	20	100	20	100	30	100	230	100	0	100	200	100	20	100	20	100	30	100	230
Overall to Subject Area %	100	20	100	220	74	0	45	119	70	0	42	112	100	20	100	220	100	30	100	230	98	0	98	196	100	20	100	220	100	30	100	230
<ol><li>Crop Yield</li></ol>	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Irrigated Paddy t/ha	5.0		5.0	5.0	5.0		5.0	5.0	4.5		4.5	4.5	5.5		5.5	5.5	5.5	5	5.0	5.3	5.5		5.5	5.5	5.5		5.5	5.5	5.0		5.5	5.3
- Palawija 2/ t/ha	W. c	5.0	D= U		W (	D Z	5.0 D: 17	-	WZ 4	D. I	5.0	-	W. ·	5.0	Dr. P	-	W. c	5.0	Dr. V	-	W. c	Dr. I	5.0	-	W. c	5.0	Da II	-	W. c	5.0	D= II	-
<ul> <li>J. Crop Production</li> <li>Irrigated Paddy ton</li> </ul>	8 175	Dry I	Dry 11 8 175	Annual	wet		Dry 11	Annual	3 150	Dry I	Dry 11	Annual 4 725	9 471	Dry I	0 471	Annual	11 127	Dry I	Dry 11	Annual 21.242	22 341	Dry I	17 875	Annual 40.216	5 582	Dry I	Dry II 5 582	Annual	5 075	Dry I	5 582	Annual 10.658
- Palawija 2/ ton	0,175	1 640	0,175	16,550	1,105	0	) 110	1,000	5,150	0	350	350	2,4/1	1 720	2,4/1	) 1 720	11,12/	3 035	10,113	3 035	22,341	0	4 060	4 060	5,585	1 020	5,585	1 020	5,075	1 525	5,565	1.525
	1	1,010		1,010	1					Ĭ	200	200		1,120	Ĭ	1,120		2,000	Ű	2,200		Ű	.,	.,		-,-20		1,020	1	1,020	Ű	-,- 20
6. Av. Paddy Yield 6/ t/ha	-	-	-	5.0	-			5.0	-	-	-	4.5	-	-	-	- 5.5	-		-	5.3	-	-	-	5.5	-	-	-	5.5	-	-	-	5.3
	Palawija	represente	d by maiz	e (hybrid)	Palawija	represente	ed by maize	: (hybrid)	Palawija	represente	ed by maiz	e (hybrid)	Palawija	represente	d by maiz	ze (hybrid)	Palawija	represente	ed by maiz	e (hybrid)	Palawija	represente	d by maiz	e (hybrid)	Palawija	represente	ed by maize	e (hybrid)	Palawija	represented	l by maize	(hybrid)
Increment (With - Present)	I D	11 5.11	0	ha	L · D	11 E' 11	101	ha	L · D	11 E. 11	700	ha	I . D	11 E' 11	0	) ha	L · D	11 E' 11	0	ha	L'DI	1 5.11	102	ho	I . D	1 5.11	0	ha	I · D	11 E. 11	0	ha
1. Land Use	Irri. Pac	ady Field	0	ha	Irri. Pac	at Area	181	na ha	IITI. Pac	ady Field	/00	na ha	IITI. Pac	ay Field	0	ha ha	Irri. Pac	aay Field	0	na ha	Irri. Pad	ay Field	193	ha	IITI. Pad	dy Field	0	ha	Irri. Pac	ay Field	0	na ha
2 Cropped Area	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry J	0 Dry II	Annual	Wet	Dry I	Dry II	Annual
- Paddy ha	0	0	16	16	181	0	) 91	272	700	0	350	1,050	69	0	20	) 89	16	0	772	788	1,365	0	535	1,900		0	26	31	12	0	526	538
- Others ha		328	0	328		0	) 2	2		0	70	-930		344	-7	334		607	-590	5	<i>.</i> ,. <i>,</i> ,	0	-57	-117		204	-9	190		305	-508	-215
Total ha	0	328	16	344	181	0	93	274	-300	0	420	120	66	344	13	423	4	607	182	793	1,305	0	478	1,783	0	204	17	221	0	305	18	323
3. Cropping Intensity 7/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual
- Paddy %	0	0	1	1 20	0			0	100	0	50	150	4	0	1	5	1	0	38	39	30	0	10	40	0	0	3	3	1	0	52	53
- Oulers % Total %	0	20	1	20	0		-40	-40	100	0	10	10	0 4	20	1	, 19	-1	30	-29	30	-2	0	-2	-4	0	20	-1	19	-1	30	-30	-21
4. Paddy Production ton	-		-	3.334	-			1.420	100			4,725	-	20		- 3.845	-			7.206	- 29	-	-	15.862	-	- 20	-	2.170	-		-	4,445
	1	1		1.0	1	t	1 1	1,120		1	1	.,. 20				1.0		1	1	.,_50				1.0						1		1.1

AT - 38

1/: Paddy grown under rainfed condition in irrigated field 2/: Palawija in irrigated field 3/: Palawija in upland field 4/: Cropping intensity in each land use category; Irri. Paddy Field, in rainfed field, respectively and overall to subject area 5/: Irrigation performances --- Cropping intensity of irrigated paddy & palawija in irrigated field; not including paddy grown under rainfed conditions 6/: Overall annual average paddy yield (annual paddy production + annual total cropped area of paddy) 7/: Cropping intensity in irrigated field

#### Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 5/7

| District                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Paddy Fi<br>Non-irrigable<br>Subject Area<br>Wet Dry<br>1,241                                                                                                                                                                                                                                                                              | -<br>eld 1,24<br>Lai<br><u>1,242</u><br>I Dry II<br>860<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 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Pad<br>Non-irri<br>Subject<br>Wet<br>3,457                                                                                                                        | -<br>dy Field<br>gable Lan<br><i>Area</i><br>Dry I                                                                                                  | -<br>3,457<br>id<br><u>3,457</u><br>Dry II<br>2,766<br>346                                                                                                                                                                                                                                                                                                                                                                                                                                            
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076                                                                                                                                                                                           | -<br>dy Field<br>gable Lar<br><i>t Area</i><br>Dry I                                                                                                         | -<br>5,076<br>d<br>5,076<br>Dry II<br>4,568<br>254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>1,900                                                                                                                         | ddy Field<br>igable Lat<br>ct Area<br>Dry I                                                                                                                                      | 1,900<br>nd<br><i>1,900</i><br>Dry II<br>1,330<br>95<br>1,425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Paddy Fi<br>Non-irrigable<br>Subject Ared<br>Wet Dry<br>1,241<br>1,241<br>Wet Dry                                                                                                                                                                                                                                                     | - ld 1,24<br>Lai<br>I Dry II<br>86<br>12<br>0 999<br>I Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 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Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet                                                                                                                 | -<br>dy Field<br>gable Lan<br><i>Area</i><br>Dry I<br>0<br>Dry I                                                                                    | -<br>3,457<br>id<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                              
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>1,036<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>5,076<br>Wet                                                                                                                                                                           | -<br>dy Field<br>gable Lar<br>t Area<br>Dry I<br>0<br>Dry I                                                                                                  | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Paddy Fi<br>Non-irrigable<br>Subject Arec<br>Wet Dry<br>1,241<br>-<br>1,241<br>Wet Dry<br>100                                                                                                                                                                                                                                         | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - 3.1<br>ha<br>ha<br>Annual<br>2,110<br>4,124<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24<br>1,24 | Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet<br>100                                                                                                          | -<br>dy Field<br>gable Lan<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0                                                                               | -<br>3,457<br>id<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80                                                                                                                                                                                                                                                                                                                                                                                                        
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>1,036<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>5,076<br>Wet<br>100                                                                                                                                                                    | -<br>dy Field<br>gable Lan<br>t Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0                                                                              | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Pad<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>1,900<br>Wet                                                                                                                  | ddy Field<br>igable Lat<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                   | 1,900<br>nd<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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Pad<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>2,983<br>Wet<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -<br>ldy Field<br>igable Lau<br>t Area<br>Dry I<br>298<br>298<br>298<br>Dry I<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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| Cropped Area     Trigated Paddy ha     Trigated Paddy ha     Palawija 2/ ha     Total ha     Cropping Intensity 7/     Irrigated Paddy %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>1,305<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Pac<br>Non-irr<br>Subjec<br>Wet<br>9 900<br>Wet<br>0 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Paddy Fi<br>Non-irrigable<br>Subject Area<br>Wet Dry<br>1,241<br>1,241<br>Wet Dry<br>100                                                                                                                                                                                                                                                   | Image: ld         1,24           Lai         1,242           I         Dry II           866         12           0         999           I         Dry II           0         70           0         10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - 3.1<br>1 ha<br>1 ha<br>2 ha<br>Annual<br>2,110<br>4 124<br>3 2,234<br>Annual<br>0 170<br>0 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -<br>Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet<br>100                                                                                                     | -<br>dy Field<br>gable Lan<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0                                                                     | -<br>3,457<br>id<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>10                                                                                                                                                                                                                                                                                                                                                                                                  
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>1,036<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>5,076<br>Wet<br>100                                                                                                                                                                    | -<br>dy Field<br>gable Lar<br>t Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0                                                                              | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Pad<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>1,900<br>Wet<br>100                                                                                                           | ddy Field<br>igable Lat<br><i>Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                        | 1,900<br>nd<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>70<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Pac<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>2,983<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -<br>ldy Field<br>igable Lau<br>t Area<br>Dry I<br>298<br>298<br>298<br>Dry I<br>0<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>90<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
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| C. Available Ticket of that     It. With Project     I. Land Use     Cropped Area     Irrigated Paddy ha     Palawija 2/ ha     Total ha     Cropping Intensity 7/     Irrigated Paddy %     Palawija 2/ %     Total %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>1,305<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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ha<br>ha<br>Annual<br>2,088<br>131<br>2,215<br>Annual<br>160<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pac           Non-irr           Subjec           Wet           900           Wet           900           Wet           900           Wet           900           Wet           900           Wet           900           100           0           100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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2.6<br>ha<br>ha<br>Annual<br>1,440<br>90<br>1,530<br>Annual<br>160<br>10<br>170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Paddy Fi<br>Non-irrigable<br>Subject Area<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 3.1<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -<br>Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet<br>100<br>100                                                                                              | dy Field<br>gable Lan<br><i>Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0                                                                     | -<br>3,457<br>dd<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>10<br>90                                                                                                                                                                                                                                                                                                                                                                                            
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Pace<br>Non-irr<br>Subjecc<br>Wet<br>1,036<br>Uet<br>1,036<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>5<br>95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100                                                                                                                    | ddy Field<br>igable La<br>ct Area<br>Dry I<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                 | 1,900<br>nd<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>70<br>5<br>75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Pac<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>2,983<br>Wet<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -<br>ldy Field<br>igable Lan<br>t Area<br>Dry I<br>298<br>298<br>298<br>Dry I<br>0<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>2,983<br>2,983<br>Dry II<br>90<br>10<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
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| Cropped Area     It With Project     I. Land Use     Cropped Area     Irrigated Paddy ha     Palawija 2/ ha     Total ha     Cropping Intensity 7/     Irrigated Paddy %     Palawija 2/ %     Voreall to Subject Area %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Wet<br>100<br>000<br>86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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Pac<br>Non-irr<br>Subjec<br>Wet<br>9 900<br>Wet<br>0 100<br>0 100<br>75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100                                                                                                                                                                                                                                              | -<br>eld 1,242<br>Lau<br>1 Dry II<br>0 999<br>1 Dry II<br>0 70<br>0 11<br>0 886<br>0 880<br>0 880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - 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Pad<br>Non-irri<br>Subjec:<br>Wet<br>3,457<br>Wet<br>100<br>100<br>100                                                                                       | dy Field<br>gable Lar<br>Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                        | -<br>3,457<br>dd<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>10<br>90<br>90                                                                                                                                                                                                                                                                                                                                                                                      
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>1,036<br>Wet<br>100<br>100<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>100                                                                                                      | ddy Field<br>igable La<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                        | 1,900<br>nd<br>1,900<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>70<br>5<br>75<br>75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pad<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>2,983<br>Wet<br>0 100<br>5 100<br>99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ldy Field<br>igable Lar<br>t Area<br>Dry I<br>298<br>298<br>298<br>Dry I<br>0<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>90<br>100<br>100<br>99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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| 11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     - Palawija 2/ %     - Valawija 2/ %     - Val | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Wet<br>1,305<br>Wet<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. 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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>00<br>Wet<br>5.0                                                                                                                                                  | dy Field<br>gable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>5<br>95<br>95<br>95<br>975<br>Dry II<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0                                                                                        | ddy Field<br>igable La:<br>ct Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                            | 1,900<br>nd<br><i>1,900</i><br>955<br>1,425<br>Dry II<br>70<br>5<br>75<br>Dry II<br>5,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 1. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Wet<br>100<br>100<br>866<br>Wet<br>4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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ha<br>ha<br>ha<br>2,081<br>131<br>2,216<br>Annual<br>160<br>170<br>146<br>Annual<br>160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 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Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet<br>100<br>100<br>100<br>Wet<br>5.5                                                                         | dy Field<br>gable Lar<br>Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0                                                                                                                                                 | dy Field<br>gable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>900<br>5<br>95<br>95<br>95<br>Dry II<br>5.00<br>5.00<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                               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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0                                                                                               | ddy Field<br>igable La:<br>ct Area<br>Dry I<br>0 00<br>Dry I<br>0 00<br>0 00<br>0 00<br>0 00<br>0 00                                                                             | 1,900<br>nd<br>1,900<br>1,330<br>95<br>1,425<br>Dry II<br>7,0<br>7,5<br>7,5<br>Dry II<br>5,0<br>5,0<br>5,0<br>5,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 11. With Project     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     5. Crop Production                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Irri. Pac<br>Non-irr<br>Subjec<br>Utility<br>1,305<br>Wet<br>1,305<br>Wet<br>100<br>86<br>Wet<br>4.5<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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ha<br>ha<br>ha<br>2,088<br>131<br>2,215<br>Annual<br>160<br>170<br>146<br>Annual<br>4.5<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>100<br>Wet Dry<br>5.0<br>Wet Dry                                                                                                                                                                                                     | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - 3.1<br>1 ha<br>1 ha<br>2 ha<br>4 12234<br>4 1233<br>5 1234<br>4 1233<br>5 1234<br>1 100<br>1 100                                                                                                          | -<br>Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet                                                                         | dy Field<br>gable Lan<br>Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>Dry I<br>Dry I                                           | 3,457<br>d<br>3,457<br>Dry II<br>2,766<br>3,112<br>Dry II<br>80<br>10<br>90<br>90<br>Dry II<br>5.0<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.0<br>ha<br>ha<br>Annual<br>6,223<br>346<br>6,569<br>Annual<br>180<br>190<br>190<br>Annual<br>Annual<br>Annual                                         | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                               
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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                                                                          | dy Field<br>gable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>5<br>95<br>95<br>95<br>95<br>0ry II<br>5.00<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet                                                                                        | ddy Field<br>igable La<br><i>ct Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                 | 1,900<br>nd<br>1,900<br>0ry II<br>1,330<br>95<br>1,425<br>0ry II<br>70<br>5<br>75<br>75<br>75<br>75<br>0ry II<br>5.0<br>0<br>5.0<br>0<br>5.0<br>0<br>5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
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Pac<br>Non-irri<br>Subjec<br>U 2,983<br>2,983<br>Wet<br>2,983<br>Wet<br>100<br>99<br>Wet<br>5,0<br>0<br>5,0<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ldy Field<br>gable Lar<br>t Area<br>Dry I<br>298<br>298<br>Dry I<br>0<br>100<br>100<br>100<br>100<br>0ry I<br>5.0<br>Dry I                                         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| 1. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     - Palawija 2/ %     Crop Yield     - Irrigated Paddy / tha     - Palawija 2/ / tha     5. Crop Production     - Irrigated Paddy ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Wet<br>100<br>86<br>Wet<br>4.5<br>Wet<br>5,873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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ha<br>ha<br>ha<br>2,081<br>131<br>2,215<br>Annual<br>160<br>110<br>170<br>146<br>Annual<br>9,390                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irr<br>Subjec<br>Wet<br>9000<br>Wet<br>0 100<br>0 100<br>0 100<br>0 100<br>0 5 4.5<br>Wet<br>4,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ddy Field<br>igable La<br><i>Area</i><br>Dry I<br>Ory I<br>C<br>Ory I<br>Dry I<br>Dry I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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ha<br>ha<br>ha<br>ha<br>Annual<br>1,440<br>900<br>1,530<br>Annual<br>160<br>170<br><i>128</i><br>Annual<br>4.5<br>-<br>-<br>Annual<br>6,480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Paddy Fi<br>Non-irrigable<br>Subject Arec<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>Wet Dry<br>6,205                                                                                                                                                                                                                     | -<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - 3.1<br>1 ha<br>1 ha<br>2 ha<br>Annual<br>2 2,110<br>2 2,110<br>2 2,110<br>2 2,110<br>2 2,120<br>4 122<br>4                                                                                                  | -<br>Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>Wet<br>100<br>100<br>Wet<br>5.5<br>Wet<br>19,014                                                               | dy Field<br>gable Lara<br>Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0              | 3,457<br>id<br>3,457<br>Dry II<br>2,766<br>3,466<br>3,112<br>Dry II<br>80<br>10<br>90<br>90<br>90<br>Dry II<br>5.0<br>5.0<br>0<br>Dry II<br>13,830                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.0<br>ha<br>ha<br>Annual<br>6,223<br>3466<br>6,569<br>Annual<br>180<br>190<br>Annual<br>5.3<br>-<br>Annual<br>32,844                                   | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>5,180                                                                                                    
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                                                                          | Irri. Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>25,380                                                                                                                                | dy Field<br>gable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>2544<br>4,822<br>Dry II<br>90<br>5<br>95<br>95<br>97<br>97<br>11<br>5.0<br>Dry II<br>5.0<br>Dry II<br>22,840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.6<br>ha<br>ha<br>Annual<br>9,644<br>9,898<br>Annual<br>190<br>5<br>195<br>795<br>Annual<br>5.0<br>-<br>Annual<br>48,220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500                                                                               | ddy Field<br>igable La:<br><i>ct Area</i><br>Dry I<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 1,900<br>nd<br>1,900<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>70<br>5<br>75<br>75<br>75<br>Dry II<br>5.0<br>5.0<br>Dry II<br>6,650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
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Pac<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>2,983<br>Wet<br>2,983<br>0<br>100<br>99<br>Wet<br>5.0<br>Wet<br>0<br>14,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ldy Field<br>igable Lar<br>t Area<br>Dry I<br>298<br>298<br>Dry I<br>0<br>100<br>100<br>100<br>100<br>100<br>Dry I<br>5.0<br>Dry I<br>0<br>0 1 00                  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| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     7otal %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy ton     - Irrigated Paddy ton     - Irrigated Paddy ton     - Palawija 2/ ton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>2,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1,305<br>1 | Idy Field<br>igable La:<br>Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                 | 1,305<br>1,217<br>1,522<br>Dry II<br>783<br>131<br>914<br>Dry II<br>60<br>100<br>70<br>60<br>Dry II<br>4.5<br>5.0<br>Dry II<br>3,524<br>655                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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ha<br>ha<br>ha<br>Annual<br>2,084<br>13<br>3<br>2,215<br>Annual<br>166<br>17(7)<br>176<br>Annual<br>9,396<br>655                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>Wet Dry<br>5.0<br>Wet Dry<br>6,205                                                                                                                                                                                                          | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - 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Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>                                                                                                               | dy Field<br>gable Lan<br>Area<br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | -<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>10<br>90<br>90<br>Dry II<br>5.0<br>5.0<br>0<br>5.0<br>Dry II<br>13,830<br>1,730                                                                                                                                                                                                                                                                                                                                    
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>100<br>Wet<br>5,180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pad<br>Non-irri<br>Subjec:<br>Wet<br>5,076<br>Wet<br>0<br>100<br>100<br>Wet<br>5.0<br>8<br>4<br>8<br>4<br>8<br>4<br>8<br>4<br>8<br>4<br>8<br>4<br>8<br>4<br>8<br>4<br>8<br>4<br>8                                                   | dy Field<br>gable Lar<br><i>I Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>5<br>95<br>95<br>0ry II<br>5.0<br>5.0<br>5.0<br>Dry II<br>22,840<br>1,270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ toh     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ toh     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ toh     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ toh     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ toh     5. Crop Production     - Palawija 2/ toh     - Palawija 2/ toh    | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Ut<br>1,305<br>Wet<br>100<br>86<br>Wet<br>4.5<br>Wet<br>5,873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Paddy Fi<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>Wet Dry<br>5.0<br>Wet Dry<br>6,205                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 3.1<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -<br>Irri. Pad<br>Non-irri<br>Subject<br>Wet<br>3,457<br>                                                                                                               | dy Field<br>gable Larrea<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                    | 3,457<br>id<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>90<br>90<br>90<br>Dry II<br>5.0<br>5.0<br>Dry II<br>13,830<br>1,730                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>5,180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>25,380                                                                                                                                       | dy Field<br>gable Lar<br>t Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>55<br>95<br>95<br>95<br>95<br>0ry II<br>5.0<br>5.0<br>Dry II<br>22,840<br>1,270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>100<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500                                                                        | ddy Field<br>igable La:<br>21 Area<br>Dry I<br>0 00<br>Dry I<br>0 00<br>0 00<br>Dry I<br>0 00<br>0 00<br>0 00<br>0 00<br>0 00<br>0 00<br>0 00<br>0                               | 1,900<br>nd<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>75<br>75<br>75<br>75<br>75<br>75<br>0ry II<br>6,650<br>0ry II<br>6,650<br>475                                                                                                                                                                                                                                                                                                                                                                                                                
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Pad<br>Non-irr<br>Subjec<br>Wet<br>2,983<br>0 2,983<br>0 2,983<br>0 2,983<br>0 2,983<br>0 100<br>99<br>Wet<br>0 5.0<br>0 5.0<br>0 44,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ldy Field<br>gable Lan<br><i>t Area</i><br>Dry 1<br>298<br>298<br>Dry 1<br>0<br>10<br>10<br>0<br>0<br>0<br>0<br>Dry 1<br>5.0<br>Dry 1<br>0<br>0<br>0<br>0<br>1,490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>900<br>100<br>100<br>100<br>5.0<br>Dry II<br>13,425<br>1,490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
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| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ work     Total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Wet<br>100<br>86<br>Wet<br>4.5<br>Wet<br>5,873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>-<br>100<br>-<br>100<br>-<br>Wet Dry<br>-<br>00<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - 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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5,180<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>6<br>5,076<br>Wet<br>100<br>100<br>Wet<br>5,0<br>6<br>0<br>Wet<br>25,380                                                                                                               | dy Field<br>gable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>900<br>5<br>955<br>955<br>975<br>Dry II<br>22,840<br>1,270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.6<br>ha<br>ha<br>Annual<br>9,644<br>2,54<br>9,898<br>Annual<br>190<br>5<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>195<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pad<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500                                                                               |                                                                                                                                                                                  | 1,900<br>nd<br>1,900<br>95<br>1,425<br>Dry II<br>70<br>5<br>75<br>Dry II<br>5.0<br>5.0<br>5.0<br>Dry II<br>6,650<br>475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Pac<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>Wet<br>2,983<br>Wet<br>100<br>99<br>Wet<br>14,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ldy Field<br>igable Lan<br><i>I Area</i><br>Dry I<br>298<br>298<br>Dry I<br>0<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>90<br>10<br>00<br>99<br>Dry II<br>13,425<br>1,490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
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| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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II<br>600<br>100<br>700<br>600<br>Dry II<br>4.5<br>5.0<br>Dry II<br>3,524<br>655<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pac<br>Non-irr<br>Subjec<br>Wet<br>900<br>Wet<br>100<br>0<br>100<br>75<br>Wet<br>4.5<br>4.5<br>4.5<br>4.50<br>5<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ddy Field<br>igable La<br>27 Area<br>Dry I<br>O (<br>O (<br>O (<br>O (<br>O (<br>O (<br>O (<br>O (<br>O (<br>O (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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300<br>1,200<br>1,200<br>1,200<br>1,200<br>1,200<br>1,200<br>0,101<br>0,510<br>0,630<br>0,630<br>0,630<br>0,630<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,010<br>0,00 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ha<br>ha<br>Annual<br>1,440<br>90<br>1,530<br>Annual<br>1,60<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>1,00<br>100<br>Wet Dry<br>6,205<br>Wet Dry<br>6,205<br>-<br>Palawija repres                                                                                                                                                                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - 3.1<br>ha ha<br>ha ha<br>2 ha<br>4 Annual<br>9 2,110<br>4 124<br>4 124<br>5 10,550<br>0 160<br>180<br>180<br>180<br>5 10,555<br>0 620<br>- 5.0<br>ze (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                         | dy Field<br>gable Lan<br>Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 3,457<br>dd<br>3,457<br>Dry II<br>2,766<br>3,112<br>Dry II<br>80<br>100<br>90<br>90<br>00<br>07<br>VII<br>5.0<br>5.0<br>Dry II<br>13,830<br>1,730<br>                                                                                                                                                                                                                                                                                                                                                                                                                                           
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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5,180<br>Wet<br>5,180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>Wet<br>25,380<br>Wet<br>25,380<br>Palawija                                                                                                                        | dy Field<br>gable Lara<br>Dry I 1 Area<br>0<br>0 Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | 5,076<br>dd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>50<br>50<br>95<br>95<br>95<br>95<br>0ry II<br>5.00<br>5.00<br>Dry II<br>22,840<br>1,270<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.6<br>ha<br>ha<br>Annual<br>9,644<br>254<br>9,898<br>Annual<br>190<br>5<br>195<br>Annual<br>5.0<br>-<br>-<br>Annual<br>48,220<br>1,270<br>5.0<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                               | Irri. Pad<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500                                                                        | ddy Field<br>igable La:<br><i>t Area</i><br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                 | 1,900<br>nd<br>1,900<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>75<br>75<br>75<br>75<br>75<br>75<br>0ry II<br>5.0<br>5.0<br>0<br>Dry II<br>5.0<br>0<br>5.0<br>0<br>Dry II<br>4,25<br>75<br>75<br>75<br>0<br>d<br>0<br>d<br>0<br>d<br>0<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pad<br>Non-irri<br>Subjec<br>Wet<br>2,983<br>Wet<br>100<br>99<br>Wet<br>14,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dy Field           gable Lan           t Area           Dry I           298           Dry I           0           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           100           1100           100           1100           1100           1100           1100           1100           1100    | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>90<br>100<br>100<br>99<br>Dry II<br>5.0<br>5.0<br>Dry II<br>13,425<br>1,490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.0<br>ha<br>ha<br>Annual<br>5.966<br>5.966<br>6.264<br>Annual<br>190<br>200<br>210<br>200<br>210<br>200<br>Annual<br>28,340<br>2,980<br>2,980<br>5.0<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     7 Palawija 2/ %     7 Vield     - Irrigated Paddy tha     - Palawija 2/ tha     S. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>Wet<br>100<br>100<br>866<br>Wet<br>4.5<br>Wet<br>5,873<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ddy Field<br>igable La:<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 1,305<br>1,217<br>1,522<br>Dry II<br>783<br>131<br>914<br>Dry II<br>914<br>00<br>100<br>100<br>00<br>00<br>Dry II<br>4.5<br>5.0<br>Dry II<br>3,524<br>655<br>655<br>655<br>655<br>655<br>655<br>655<br>65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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ha<br>ha<br>ha<br>Annual<br>2,088<br>13<br>2,211<br>Annual<br>166<br>110<br>170<br>(<br>170<br>(<br>170<br>(<br>170<br>170<br>146<br>Annual<br>9,390<br>655<br>4.5<br>: (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irr<br>Subject<br>Wet<br>9 900<br>Wet<br>0 100<br>0 100<br>0 755<br>Wet<br>4.5<br>4.5<br>4.5<br>4.5<br>9 4.5<br>9 4.5 | ddy Field<br>igable Le<br><i>:1 Area</i><br>Dry I<br>Ory I<br>Ory I<br>Dry I<br>Dry I<br>C<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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     100           170           128           Annual           6,480           450           4.5           (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                       | -<br>Irri, Paddy Fi<br>Non-irrigable<br>Subject Arec<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>Wet Dry<br>5.0<br>Wet Dry<br>6,205<br>-<br>Palawija repres                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 3.1<br>1 ha<br>2 ha |                                                                                                                                                                         | dy Field<br>gable Lan<br>Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 3,457<br>dd<br>3,457<br>Dry II<br>2,766<br>3,112<br>Dry II<br>80<br>10<br>90<br>90<br>90<br>Dry II<br>13,830<br>1,730<br>1,730<br>1,730<br>10<br>13,835<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,730<br>1,73 | 4.0<br>ha<br>ha<br>Annual<br>6,223<br>346<br>6,569<br>Annual<br>180<br>190<br>Annual<br>32,844<br>1,730<br>5.3<br>c(hybrid)                             | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>1,036<br>Wet<br>100<br>100<br>100<br>Wet<br>5,180<br>Wet<br>5,180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                         |                                                                                                                                                                                                               | 1,036<br>nd<br>1,036<br>Dry II<br>622<br>207<br>829<br>Dry II<br>60<br>20<br>20<br>80<br>0<br>20<br>0<br>80<br>0<br>Dry II<br>3,110<br>1,035<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.0<br>ha<br>ha<br>ha<br>Annual<br>1,658<br>207<br>1,865<br>Annual<br>160<br>200<br>1800<br>Annual<br>5.0<br>1,035<br>5.0<br>e (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pad<br>Non-irri<br>Subjece<br>Wet<br>5,076<br>Wet<br>100<br>100<br>Wet<br>5,076<br>Wet<br>25,380<br>Wet<br>25,380<br>Wet                                                                                                            | dy Field<br>gable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>90<br>5<br>95<br>975<br>Dry II<br>22,840<br>1,270<br>d by maiz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
3.6<br>ha<br>ha<br>Annual<br>9,644<br>254<br>9,898<br>Annual<br>190<br>5<br>1955<br>1955<br>1955<br>1955<br>Annual<br>48,2200<br>1,270<br>5.0<br>c (hybrid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Irri. Pad<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500<br>Palawija                                                                   |                                                                                                                                                                                  | 1,900<br>nd<br>1,900<br>Dry II<br>1,330<br>955<br>1,425<br>Dry II<br>5,0<br>5,0<br>5,0<br>Dry II<br>6,650<br>475<br>475<br>40 by maizcast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Pac<br>Non-irri<br>Subjece<br>Wet<br>2,983<br>Wet<br>2,983<br>Wet<br>5.0<br>0 100<br>99<br>Wet<br>5.0<br>Wet<br>14,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Idy Field           igable Lar           igable Lar           t Area           Dry I           298           Dry I           0           100           10           0           10           0           10           0           10           0           10           0           10           0           10           0           10           0           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           11           12                         | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>2,983<br>Dry II<br>90<br>100<br>100<br>100<br>00<br>99<br>Dry II<br>13,425<br>1,490<br>                                                                                                                                                                                                                                                                                                                     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| 1. With Project     1. Land Use     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ total %     Overall to Subject Area %     4. Crop Yield     - Irrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ toto     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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II<br>4.5<br>5.0<br>Dry II<br>5.0<br>Dry II<br>5.0<br>5.0<br>Dry II<br>5.0<br>Dry II<br>5.0                     | ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>Wet Dry<br>100<br>Wet Dry<br>8.0<br>Wet Dry<br>9.0<br>Palawija repres                                                                                                                                                                                   | - lid 1,24<br>Lar<br>1,24 Lar<br>1 Dry II<br>866<br>12<br>0 999<br>1 Dry II<br>0 7<br>0 11<br>0 87<br>0 87<br>1 Dry II<br>0 8<br>0 87<br>1 Dry II<br>0 8<br>1 Dry II<br>0 7<br>1 Dry II<br>0 7<br>1 Dry II<br>0 7<br>0 - 12<br>0 7<br>0 - 12<br>0 | - 3.1<br>ha<br>2 ha<br>2 ha<br>4 nnual<br>2 124<br>4 124<br>1 124                                                                                                | -<br>Irri. Pad<br>Subjecz:<br>Wet<br>3,457<br>Wet<br>100<br>100<br>100<br>100<br>Wet<br>19,014<br>Palawija n<br>Irri. Pad                                               | -<br>dy Field<br>gable Larar<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | -<br>3,457<br>dd<br>3,457<br>Dry II<br>2,766<br>346<br>3416<br>3416<br>3416<br>3416<br>5.0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                    
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Pad<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5,180<br>Wet<br>5,180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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II<br>60<br>20<br>20<br>60<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>829<br>20<br>7<br>80<br>20<br>20<br>20<br>7<br>80<br>20<br>20<br>20<br>20<br>20<br>7<br>80<br>20<br>20<br>20<br>20<br>20<br>20<br>7<br>80<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>7<br>80<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>80<br>20<br>20<br>20<br>20<br>20<br>80<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                                                                                                                                                                                                                                                              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(hybrid)<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
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3.6<br>ha<br>ha<br>Annual<br>9,644<br>254<br>9,898<br>Annual<br>190<br>5<br>195<br>Annual<br>195<br>Annual<br>48,220<br>1,270<br>5.0<br>e (hybrid)<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Subjece<br>Wet<br>2,983<br>Wet<br>1000<br>99<br>Wet<br>5,00<br>Wet<br>14,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dy Field<br>igable Lar<br>t Area<br>Dry I<br>298<br>298<br>Dry I<br>0<br>0<br>10<br>10<br>10<br>0<br>10<br>0<br>10<br>0<br>0<br>1,490<br>-<br>represente-<br>dy Field                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>2,983<br>Dry II<br>90<br>100<br>100<br>99<br>Dry II<br>5.0<br>5.0<br>Dry II<br>13,425<br>1,490<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy 7/     - Palawija 2/ %     Palawija 2/ %     Verall to Subject Area %     4. Crop Yield     - Inrigated Paddy tha     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     - Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>100<br>Wet Dry<br>5.0<br>Wet Dry<br>6,205<br>Palawija repres                                                                                                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - 3.1<br>1 ha<br>2 ha<br>2 ha<br>2 ha<br>4 1222<br>3 2,234<br>Annual<br>9 2,110<br>4 1222<br>1 Annual<br>0 1777<br>0 170<br>0 170<br>0 180<br>0                                                                                                   | -<br>Irri. Pad<br>Non-irri<br>Subjeczi<br>Wet<br>3,457<br>Wet<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | dy Field<br>gable Lan<br>Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 3,457<br>id<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>90<br>90<br>0<br>Dry II<br>13,830<br>1,730<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.0<br>ha<br>ha<br>Annual<br>6,223<br>346<br>6,569<br>Annual<br>180<br>100<br>190<br>Annual<br>5.3<br>5.3<br>c (hybrid)<br>ha<br>ha                     | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,036<br>Wet<br>100<br>100<br>Wet<br>5,180<br>Wet<br>5,180<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                     
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Pad<br>Non-irri<br>Subjece<br>Wet<br>5,076<br>Wet<br>100<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                               
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(hybrid)<br>ha<br>ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500<br>Palawija<br>Irri, Pac                                                      | ddy Field<br>igable La:<br><i>ct Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                | 1,900<br>nd<br>1,900<br>95<br>1,425<br>Dry II<br>70<br>5<br>75<br>75<br>Dry II<br>6,650<br>475<br>4 by maize<br>750<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
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Pac<br>Non-irri<br>Subjece<br>Wet<br>2,983<br>Wet<br>2,083<br>Wet<br>5.0<br>0<br>100<br>99<br>Wet<br>5.0<br>0<br>14,915<br>-<br>Palawija                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - idy Field igable Lat <i>t Area</i> Dry I 298 298 Dry I 0 10 10 10 10 0 0 0 0 0 0 0 1,490 - represente idy Field <i>t Area</i>                                    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Pad<br>Subjec<br>Wet                                                                                      | dy Field<br>gable Lar<br>1 Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>2544<br>4,822<br>Dry II<br>90<br>5<br>95<br>975<br>Dry II<br>22,840<br>1,270<br>-<br>d by maize<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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3.6<br>ha<br>ha<br>Annual<br>9,644<br>9,898<br>Annual<br>1900<br>5<br>1955<br>Annual<br>48,220<br>1,270<br>2,00<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270<br>2,270 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Pad<br>Non-irr<br>Subjece<br>Wet<br>1,900<br>Wet<br>100<br>100<br>Wet<br>5.0<br>Wet<br>9,500<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>Wet                             | ddy Field<br>igable La:<br>igable La:<br>igable La:<br>Treat Area<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                 | 1,900<br>nd<br>1,900<br>0 Dry II<br>1,330<br>95<br>1,425<br>0 ry II<br>70<br>5<br>75<br>75<br>75<br>5.0<br>5.0<br>0 ry II<br>6,650<br>475<br>475<br>40 y maize<br>750<br>0 0<br>0<br>0 Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
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          Annual           16,150           475           5.0           c (hybrid)           ha           ha           Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -           Idy Field           ggable Lar           ggable Lar           Dry I           298           Dry I           298           Dry I           0           100           100           100           100           100           100           100           100           100           100           100           100           1490                                                                                                                                                                                                                                                                                                                                                                                              | 2,983<br>3,000<br>Dry II<br>2,685<br>2,983<br>Dry II<br>900<br>100<br>100<br>100<br>099<br>Dry II<br>5.0<br>5.0<br>Dry II<br>13,425<br>1,420<br>1,490<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.0<br>ha<br>ha<br>ha<br>5.668<br>596<br>6.264<br>Annual<br>190<br>200<br>200<br>200<br>200<br>200<br>Annual<br>28,340<br>2,980<br>5.0<br>c (hybrid)<br>ha<br>ha<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
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| 11. With Project     1. Land Use     11. With Project     1. Land Use     11. Trigated Paddy ha     - Irrigated Paddy ha     - Palawija 2/ ha     17. Trigated Paddy / ha     17. Trigated Paddy / ha     17. Trigated Paddy / ha     17. Total ha     18. Cropping Intensity 7/     - Irrigated Paddy / ha     - Palawija 2/ tha     7. Total %     0verall to Subject Area %     4. Crop Yield     - Irrigated Paddy ton     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ tha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy ha     - Paddy ha  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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II<br>60<br>100<br>0700<br>0700<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0700<br>0700<br>0700<br>0700<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0701<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0701<br>0701<br>0701<br>0701<br>0701<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>07000<br>0700<br>0700<br>0700<br>07000<br>07000<br>07000<br>0700<br>0700<br>0700<br>0700<br>07000<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>07000<br>0700<br>0700<br>0700<br>0700<br>0700<br>0700<br>07000<br>07000<br>07000<br>07000<br>07000<br>0700<br>07000<br>0700<br>07000<br>0700 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    4.50           4.51           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>Wet Dry<br>100<br>Wet Dry<br>6,205<br>Palawija repres<br>Irri. Paddy Fi<br>Subject Aree<br>Wet Dry<br>1                                                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - 3.1 - 3.1 - 1 ha -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - Irri. Pad Non-irri Subjecci Wet 3,457 Wet 3,457 Wet 100 100 100 100 100 Wet 19,014 Palawija n Irri. Pad Subjecci Wet 0 0                                              | dy Field<br>gable Lara<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                      | 3,457<br>id<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>10<br>90<br>90<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
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Pac<br>Subjec<br>Wet<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>Annual<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)<br>1,035<br>5.0<br>(hybrid)                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                  | Irri. Pad<br>Non-irri<br>Subjecz<br>Wet<br>5,076<br>Wet<br>1000<br>1000<br>1000<br>Wet<br>25,380<br>Palawija<br>Irri. Pad<br>Subjec<br>Wet<br>0                                                                                           | dy Field<br>gable Lar<br><i>t Area</i><br>Dry I<br>0<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 5,076<br>nd<br>5,076<br>Dry II<br>4,568<br>2544<br>4,822<br>Dry II<br>90<br>5<br>95<br>95<br>95<br>07<br>1,270<br>1,270<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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3.6<br>ha<br>ha<br>ha<br>2544<br>9,898<br>Annual<br>190<br>5<br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i><br><i>195</i> | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,900<br>Wet<br>100<br>100<br>100<br>Wet<br>5.0<br>Palawija<br>Irri. Pac<br>Subjec<br>Wet<br>0                                         | ddy Field<br>igable La:<br>ct Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                       | 1,900<br>nd<br>1,900<br>955<br>1,425<br>Dry II<br>70<br>5<br>755<br>75<br>Dry II<br>6,650<br>475<br>0<br>Dry II<br>6,650<br>475<br>75<br>0<br>Dry II<br>5,0<br>0<br>Dry II<br>5,0<br>0<br>Dry II<br>70<br>0<br>Dry II<br>70<br>75<br>0<br>Dry II<br>70<br>75<br>0<br>Dry II<br>70<br>75<br>0<br>Dry II<br>70<br>75<br>0<br>75<br>0<br>75<br>0<br>75<br>0<br>75<br>0<br>75<br>0<br>75<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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Pad<br>Non-irri<br>Subjece<br>Wet<br>2,983<br>Wet<br>1000<br>99<br>Wet<br>5.00<br>99<br>Wet<br>14,915<br>14,915<br>14,915<br>114,915<br>114,915<br>114,915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -           Idy Field           igable Lar           igable Lar           I Area           Dry I           298           Dry I           0           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           1490           1,490           1,490           1449           147           10           10           10           11,490           144           147           149           149           149           149           149           149           149           149           149           149           149           149           149           149 | 2,983<br>17<br>3,000<br>Dry II<br>2,685<br>298<br>298<br>Dry II<br>90<br>10<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                           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| 11. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy 7/     - Palawija 2/ 9%     - Palawija 2/ 9%     Crop Yield     - Irrigated Paddy 1/ha     - Palawija 2/ 1/ha     S. Crop Production     - Irrigated Paddy 1/ha     S. Crop Production     - Irrigated Paddy 4/ha     - Palawija 2/ 1/ha     S. Crop Production     - Irrigated Paddy 4/ha     - Palawija 2/ 1/ha     S. Crop Production     - Inrigated Paddy 4/ha     - Palawija 2/ 1/ha     S. Crop Production     - Inrigated Paddy 4/ha     - Palawija 2/ 1/ha     S. Crop Production     - Inrigated Paddy 4/ha     - Croped Area     - Paddy 1/ha     - Others ha     - Others ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - idy Field igable La idy Field igable La idrea Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                           | 1,305<br>1,217<br>1,522<br>Dry II<br>914<br>914<br>131<br>914<br>070<br>100<br>700<br>600<br>070<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
ha<br>ha<br>ha<br>2,08i<br>13<br>2,21i<br>16i<br>11<br>16i<br>14i<br>Annual<br>4<br>4<br>4<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>9,390<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128<br>1,128                                                                                                | Irri, Pac<br>Non-irr<br>Subjec<br>Wet<br>900<br>000<br>000<br>75<br>Wet<br>4,050<br>4,050<br>4,050<br>4,050<br>4,050<br>5<br>4,050<br>5<br>4,050<br>5<br>4,050<br>5<br>4,050<br>5<br>4,050<br>5<br>4,050<br>5<br>5<br>8<br>900<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>100<br>Wet Dry<br>6,205<br>Palawija repres<br>Irri. Paddy Fi<br>Subject Aree<br>Wet Dry<br>1                                                                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.1           1         ha           2         ha           2         ha           3         Annual           4         124           4         124           4         124           3         2,2134           4         124           1         Annual           0         170           0         180           Annual         Annual           0         5.0           2         ha           0         620           2         ha           3         Annual           4         5452           4         5452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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 | Irri, Pac<br>Non-irri<br>Subject<br>1,036<br>1000<br>1000<br>1000<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,180<br>Wet<br>5,080<br>Wet<br>5,090<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Wet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>100<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>Vet<br>1000<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V<br>V |                                                                                                                                                                                                               | 1,036<br>nd<br>1,036<br>Dry II<br>622<br>207<br>829<br>Dry II<br>600<br>800<br>800<br>Dry II<br>5.0<br>Dry II<br>1,035<br>1,035<br>1,035<br>0<br>Dry II<br>622<br>64<br>64<br>64<br>66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Stubjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>100<br>Wet<br>25,380<br>Wet<br>25,380<br>Wet<br>25,380<br>Urri. Pad<br>Stubjec                                                                                   | dy Field<br>gable Lar<br><i>I</i> Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>ad<br>5,076<br>Dry II<br>4,568<br>254<br>4,822<br>Dry II<br>900<br>5<br>95<br>95<br>95<br>95<br>07 VII<br>22,840<br>1,270<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                           | 2,9833,000<br>Dry III 2,6855<br>29882,298382,298382,298382,298382<br>2990 100<br>1000 1000 1000<br>999 999<br>Dry III 5,0,0<br>5,0,0<br>5,0,0<br>5,0,0<br>5,0,0<br>1,4900<br>0,0<br>11,4252<br>1,4900<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.0<br>ha<br>ha<br>ha<br>5.668<br>596<br>6.264<br>Annual<br>190<br>210<br>210<br>200<br>210<br>200<br>210<br>200<br>200<br>200<br>20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 10. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     - Palawija 2/ %     - Valawija 2/ %     - Valawija 2/ %     - Valawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Irrigated Paddy / tha     - Palawija 2/ %     - Cropped Area     - Paddy Yield 6/ %     - Cropped Area     - Paddy ha     - Others ha     - Total ha     - Cropping Intensity 7/                                                                                                                                                                                                                                                                                                                                                                                                 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ha<br>ha<br>ha<br>2.08i<br>3<br>2.21i<br>4.nnual<br>2.08i<br>3<br>2.21i<br>4.nnual<br>4.:<br>(177<br>146<br>Annual<br>9.39f<br>655<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(1777<br>4.5)<br>(177 | Irri. 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Annual           1,440           900           1,530           Annual           160           10           1700           128           Annual           6,480           4,55           c           Annual           6,480           4,55           c           ha           ha           ha           5           -7100           515           -7100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Irri. Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>Wet Dry<br>5.0<br>Wet Dry<br>6,205<br>Palawija repres<br>Irri. Paddy Fi<br>Subject Aree<br>Wet Dry<br>1<br>-                                                                                                                                     | -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -    -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.1           1         ha           2         ha           2         ha           Annual         2.110           4         1.2.216           4         1.2.233           5         1.0.176           6         1.760           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.800           10         1.000           10         1.000           10         1.000           10         1.000           10         1.000           10         1.000           10         1.000           10         1.000           10         1.0000           10         1.00000           10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
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Pad Non-irri Stubjecci Wet 3,457 Wet 100 100 100 Wet 5,5 Wet 19,014 - Palawija t Irri. Pad Subjecci Wet 0 0 0 Wet                                               | dy Field<br>dy Field<br>Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 3,457<br>d<br>3,457<br>Dry.II<br>2,766<br>346<br>3,112<br>Dry.II<br>346<br>80<br>90<br>90<br>90<br>90<br>0<br>Dry.II<br>13,830<br>1,730<br>90<br>50<br>50<br>0<br>0<br>Dry.II<br>19<br>90<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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           | Irri, Pac<br>Non-irri<br>Subirri<br>Ulassi<br>Wet<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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II<br>3,110<br>1,035<br>1,035<br>1,035<br>1,035<br>1,035<br>1,035<br>1,035<br>1,035<br>1,035<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1,036<br>1, | 4.0<br>ha<br>ha<br>ha<br>1,658<br>2007<br>1,865<br>Annual<br>160<br>200<br>180<br>Annual<br>5.0<br>e (hybrid)<br>ha<br>ha<br>ha<br>Annual<br>622<br>-79<br>5.43<br>Annual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Pad<br>Non-irri<br>Subjecz<br>Wet<br>5,076<br>Wet<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>25,380<br>Irri. Pad<br>Subjecz<br>Wet<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | dy Field<br>gable Lar<br><i>I</i> Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>5,076<br>du<br>5,076<br>Dry II<br>4,568<br>2544<br>4,822<br>2544<br>4,822<br>2544<br>900<br>5<br>0<br>905<br>5<br>0<br>5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.6.6<br>ha<br>ha<br>Annual<br>9,644<br>254<br>9,898<br>4,000<br>5<br>995<br>1995<br>1995<br>1995<br>1995<br>1995<br>1995                                                                                                                                                                                                                                                                                          
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Pac<br>Non-irr<br>Subjeck<br>Wet<br>1,900<br>Wet<br>100<br>100<br>100<br>Wet<br>5,0<br>Wet<br>9,500<br>Palawija<br>Irri. Pac<br>Subjeck<br>Wet<br>0<br>0                  |                                                                                                                                                                                  | 1,900<br>nd<br>1,900<br>0 Pry II<br>1,330<br>95<br>1,425<br>Dry II<br>70<br>5.0<br>5.0<br>5.0<br>0 Try II<br>6,650<br>475<br>475<br>5.0<br>0 Try II<br>6,650<br>475<br>75<br>0 Try II<br>6,650<br>0 0<br>0 Dry II<br>563<br>955<br>658<br>Dry II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Irri. Pad<br>Non-irri<br>Subjece<br>Wet<br>2,983<br>Wet<br>100<br>99<br>Wet<br>5,0<br>100<br>99<br>Wet<br>14,915<br>Irri. Pad<br>Subjece<br>Wet<br>40<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -           Idy Field           ggable Lar           ggable Lar           Dry I           298           Dry I           298           Dry I           0           100           100           100           100           100           100           100           100           100           100           100           1490           -           -           -           0           1,490           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -      -                                     | 2,9833,000<br>Dry III<br>2,6855<br>2,9832,298<br>2,9832,298<br>2,9832,298<br>2,9832<br>2,9832<br>2,9832<br>2,9832<br>2,9832<br>2,9832<br>2,9832<br>2,9832<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932<br>2,9932 | 4.0<br>ha<br>ha<br>ha<br>5.668<br>596<br>6.264<br>Annual<br>190<br>200<br>200<br>200<br>200<br>Annual<br>5.0<br>2.980<br>5.0<br>c (hybrid)<br>ha<br>ha<br>ha<br>Annual<br>5.50<br>2.340<br>2.980<br>5.0<br>c (hybrid)<br>ha<br>ha<br>Annual<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2.340<br>2 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Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ tota     - Palawija 2/ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pac<br>Non-irr<br>Subjec<br>Wet<br>900<br>000<br>Wet<br>0100<br>75<br>Wet<br>4.5<br>4.5<br>4.5<br>4.5<br>4.5<br>900<br>0100<br>75<br>Wet<br>4.5<br>4.5<br>900<br>0100<br>75<br>Wet<br>5<br>4.5<br>900<br>00<br>900<br>Wet<br>5<br>900<br>900<br>Wet<br>5<br>900<br>900<br>Wet<br>5<br>900<br>900<br>00<br>900<br>Wet<br>5<br>900<br>900<br>00<br>900<br>00<br>900<br>00<br>900<br>00<br>900<br>00                                                                                                                              
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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>Wet Dry<br>00<br>Wet Dry<br>00<br>Wet Dry<br>100<br>-<br>Palawija repres<br>Irri. Paddy Fi<br>Subject Aree<br>Wet Dry<br>-<br>-<br>Palawija repres                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - 3.1 - 3.1 - 1 ha -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - 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Pad Non-irri Subjecci Wet 3,457 Wet 3,457 Wet 100 100 100 100 100 Wet 19,014 Palawija n Irri. Pad Subjecc Wet 0 0 0 0 Wet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | dy Field<br>dy Field<br>Area<br>Dry 1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 3,457<br>d<br>3,457<br>Dry II<br>2,766<br>3,457<br>346<br>3,457<br>346<br>3,457<br>80<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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Pac<br>Wet<br>1,036<br>1,036<br>1,037<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Pad<br>Non-irri<br>Subjec<br>Wet<br>5,076<br>000<br>100<br>100<br>100<br>100<br>100<br>Wet<br>5,076<br>5,076<br>00<br>Wet<br>25,380<br>Wet<br>25,380<br>Wet<br>25,380<br>00<br>00<br>00<br>Wet<br>21                                | dy Field<br>gable Lar<br><i>t Area</i><br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076 dd<br>dd<br>d 5,076 dd<br>4,568 d<br>4,568 d<br>2544 d,822 d<br>90 0<br>90 0<br>90 0<br>95 95<br>95 95<br>97 H<br>1 90 0<br>1,270 d<br>1,270 d<br>1,270 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0                                                                                                                                                                                                                                                                                                                                                                                                      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Field           ggabe Lar           gabe Lar           1 Area           Dry 1           298           Dry 1           0           0           10           10           0           0           0           0           0           0           0           0           0           0           0           0           0           1.490                                                                                                                                                                                                                                                                                                                                                                                                | 2,983 3,000 Jpy III 3,000 Jpy III 13,000 Jpy III 15,000 Jpy III 15                                                                                                                                                                                                                            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(hybrid)<br>ha<br>ha<br>Annual<br>5.62<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,980<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,990<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2,900<br>2    |
| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy 2/ %     Palawija 2/ %     Palawija 2/ %     Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     S. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use     Cropped Area     - Paddy ha     - Others ha     - Others ha     S. Cropping Intensity 7/     - Paddy for the present)     1. Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pac<br>Non-irr<br>Subjec<br>9 900<br>Wet<br>9 900<br>Wet<br>0 100<br>75<br>Wet<br>5 4.5<br>4.050<br>5 4.5<br>9 Palawija<br>Palawija<br>700<br>-100<br>Wet<br>700<br>-100<br>Wet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ddy Field<br>igable La<br>ct Area<br>Dry I<br>Dry I<br>Ory I<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10                                                                                                                                                                                                       | -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     - 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Irri. Pad Non-irri Stubjecci Wet 3.457 3.457 Wet 100 100 100 100 100 Wet 5.5 Wet 19,014 Irri. Padawija r Palawija r Palawija r 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | dy Field<br>dy Field<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                        | 3,457<br>d<br>3,457<br>Dry II<br>2,766<br>346<br>3,112<br>Dry II<br>80<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
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Pac<br>Non-irri<br>Subjec<br>Subjec<br>Wet<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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Pad<br>Non-irri<br>Stubjec<br>Wet<br>5,076<br>Wet<br>100<br>100<br>100<br>Wet<br>25,380<br>Wet<br>25,380<br>Irri. Pad<br>Stubjec<br>Wet<br>0<br>0<br>0<br>Wet                                                                       | dy Field<br>gable Lar<br><i>I</i> Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>3,076<br>3,076<br>4,568<br>4,568<br>4,568<br>2544<br>4,568<br>2544<br>4,568<br>2544<br>4,568<br>2544<br>4,568<br>5,076<br>1,070<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,071<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070<br>1,070 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      6.0           6.0           6.0           6.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0           7.0 <tr td=""></tr>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dy Field<br>ggable Lar<br><i>t Area</i><br>Dry I<br>298<br>298<br>0<br>0<br>10<br>10<br>10<br>10<br>0<br>10<br>0<br>10<br>0<br>10<br>0<br>0<br>1,490<br>0<br>1,490<br>0<br>1,490<br>0<br>1,490<br>0<br>298<br>298<br>Dry I<br>0<br>0<br>298<br>Dry I<br>0<br>0<br>1,0<br>0<br>0<br>0<br>1,0<br>0<br>0<br>1,0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                             | 2,983 3,000 Dry III 2,500 Dry III 13,425 - 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| Corped Area     Inrigated Paddy     Area     Irrigated Paddy     Area     Irrigated Paddy     Area     Irrigated Paddy     Area     Palawija 2/ ha     Total ha     Cropping Intensity 7/     Irrigated Paddy %     Overall to Subject Area     %     Copyrield     Irrigated Paddy ton     Palawija 2/ toh     Crop Production     Irrigated Paddy ton     Palawija 2/ toh     CropProduction     Irrigated Paddy ton     Palawija 2/ toh     CropProduction     Inrigated Paddy ton     Palawija 2/ toh     CropPenduction     Inrigated Paddy ton     Palawija 2/ toh     CropProduction     Inrigated Paddy ton     Padayi 2/ toh     Croppend Area     Paddy Yield 6/ tha     Total ha     Others ha     Total ha     Cropping Intensity 7/     Paddy     %     Others %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Irri. Pac<br>Non-irr<br>Subjec<br>Wet<br>1,305<br>1,305<br>Wet<br>100<br>100<br>86<br>Wet<br>4.5<br>Wet<br>5,873<br>Palawija<br>Irri. Pac<br>Subjec<br>Vet<br>505<br>-217<br>Wet<br>100<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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         144           Annual           9.394           655           (hybrid)           ha           Annual           1.288           Annual           1.208           ha           Annual           1.288           697           Annual           160           110           120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Pac<br>Non-irr<br>Subjec<br>9 900<br>Wet<br>0 100<br>0 100<br>75<br>Wet<br>4,55<br>4,55<br>4,55<br>9 Palawija<br>Irri. Pac<br>Subjec<br>Vet<br>7-100<br>Wet<br>0 0<br>0 0<br>0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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I<br>(<br>0<br>(<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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ha           ha           ha           ha           Annual           1,440           900           1,530           Annual           1600           1700           1728           Annual           6,480           4,55           -           -           Annual           6,480           4,55           -           -           Annual           1,225           -           -           ha           ha           ha           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           - </td <td>-<br/>Irri. Paddy Fi<br/>Non-irrigable<br/>Subject Aree<br/>Wet Dry<br/>1,241<br/>Wet Dry<br/>100<br/>100<br/>100<br/>Wet Dry<br/>6,205<br/>-<br/>Palawija repres<br/>Wet Dry<br/>-<br/>Palawija repres<br/>Subject Aree<br/>Wet Dry<br/>-<br/>-<br/>Palawija repres<br/>-<br/>Subject Aree<br/>Wet Dry<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td> <td>-     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -    -</td> <td>- 3.1 - 3.1 - 3.1 - 3.1 - 3.1 - 1 ha - ha -</td> <td> Irri. Pad Non-irri Stubjecc Wet 3,457 Wet 100 100 100 100 100 Wet 19,014 Palawija Irri. Pad Subjecc Wet 0 0 0 Wet 0 0 0 Wet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>dy Field<br/>dy Field<br/>Area<br/>Dry 1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>3,457<br/>d<br/>3,457<br/>Dry.II<br/>2,766<br/>3,46<br/>3,46<br/>3,457<br/>3,46<br/>3,457<br/>3,46<br/>80<br/>90<br/>90<br/>90<br/>00<br/>07<br/>11<br/>3,830<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>4.0<br/>ha<br/>ha<br/>Annual<br/>6.223<br/>346<br/>6.569<br/>Annual<br/>180<br/>190<br/>190<br/>190<br/>190<br/>190<br/>190<br/>190<br/>19</td> <td></td> <td></td> <td>1,036<br/>nd<br/>1,036<br/>Dry II<br/>602<br/>207<br/>207<br/>9<br/>0<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>4.0<br/>ha<br/>ha<br/>ha<br/>1,658<br/>2077<br/>1,865<br/>Annual<br/>160<br/>20<br/>180<br/>Annual<br/>5.0<br/>e (hybrid)<br/>60<br/>ha<br/>ha<br/>ha<br/>Annual<br/>622<br/>-799<br/>5.43<br/>Annual<br/>623<br/>-799<br/>5.43<br/>Annual<br/>624<br/>-799<br/>5.43<br/>Annual<br/>625<br/>-78<br/>-78<br/>-78<br/>-78<br/>-78<br/>-78<br/>-78<br/>-78<br/>-78<br/>-78</td> <td>Irri. Pad<br/>Non-irri<br/>Stubjecz<br/>Wet<br/>5,076<br/>Wet<br/>100<br/>100<br/>100<br/>Wet<br/>25,380<br/>Vet<br/>25,380<br/>Irri. Pad<br/>Stubjecz<br/>Wet<br/>0<br/>0<br/>Wet<br/>21<br/>0<br/>0<br/>Wet<br/>21<br/>0<br/>0</td> <td>dy Field<br/>gable Lar<br/><i>I</i> Area<br/>Dry I<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>5,076<br/>s,076<br/>by II 4,568<br/>5,076<br/>Dry II 4,568<br/>2544<br/>4,822<br/>2544<br/>4,822<br/>90<br/>90<br/>95<br/>95<br/>95<br/>95<br/>50<br/>0<br/>50<br/>0<br/>50<br/>0<br/>50<br/>0<br/>50<br/>1,270<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>1,270<br/>4<br/>0<br/>2,840<br/>2,840<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,270<br/>1,</td> <td>3.6.<br/>ha<br/>ha<br/>ha<br/>Annual<br/>9,644<br/>9,898<br/>Annual<br/>190<br/>5.0<br/>195<br/>195<br/>195<br/>195<br/>195<br/>195<br/>195<br/>195</td> <td>Irri. Pac<br/>Non-irr<br/>Subjece<br/>Wet<br/>1,900<br/>Wet<br/>100<br/>100<br/>100<br/>Wet<br/>9,500<br/>Palawija<br/>Irri. Pac<br/>Subjec<br/>Wet<br/>0<br/>0<br/>Wet<br/>33<br/>0<br/>0</td> <td></td> <td>1,900<br/>nd<br/>1,900<br/>Dry II<br/>1,330<br/>95<br/>1,425<br/>Dry II<br/>70<br/>5<br/>75<br/>75<br/>75<br/>75<br/>75<br/>0<br/>ry II<br/>6,650<br/>4<br/>475<br/>4<br/>5,0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>1<br/>0<br/>ry
II<br/>5,0<br/>0<br/>5,0<br/>0<br/>1<br/>1,425<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,7<br/>1<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,7<br/>1<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,7<br/>1<br/>5,00<br/>0<br/>7,7<br/>5,00<br/>0<br/>7,7<br/>5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7,5<br/>0<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7</td> <td>3.2.<br/>ha<br/>ha<br/>ha<br/>Annual<br/>3.230<br/>95<br/>3.3252<br/>175<br/>175<br/>175<br/>175<br/>175<br/>175<br/>175<br/>175</td> <td>Irri. Pac<br/>Non-irri<br/>Subjece<br/>Wet<br/>2,983<br/>2,983<br/>Wet<br/>0 100<br/>99<br/>Wet<br/>0 100<br/>100<br/>99<br/>Wet<br/>0 100<br/>100<br/>99<br/>Wet<br/>0 100<br/>100<br/>100<br/>100<br/>99<br/>Wet<br/>0 100<br/>100<br/>100<br/>99<br/>Wet<br/>0 100<br/>100<br/>100<br/>100<br/>100<br/>100<br/>100<br/>99<br/>Wet<br/>0 100<br/>100<br/>100<br/>100<br/>100<br/>100<br/>100<br/>100<br/>100<br/>1</td> <td>-           Idy Field           ggabe Lar           ggabe Lar           Dry I           298           Dry I           0           10           0           10           0           0           0           0           0           0           1490           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -</td> <td>2,9833,000<br/>Dry III<br/>2,685<br/>2988<br/>2988<br/>2988<br/>2988<br/>2988<br/>2988<br/>2988<br/>29</td> <td>4.0<br/>ha<br/>ha<br/>ha<br/>5.668<br/>596<br/>6.264<br/>Annual<br/>190<br/>200<br/>200<br/>200<br/>200<br/>200<br/>Annual<br/>28.340<br/>2.980<br/>5.0<br/>c (hybrid)<br/>ha<br/>ha<br/>ha<br/>Annual<br/>5.82<br/>2.321<br/>Annual<br/>177<br/>-7<br/>10</td> | -<br>Irri. Paddy Fi<br>Non-irrigable<br>Subject Aree<br>Wet Dry<br>1,241<br>Wet Dry<br>100<br>100<br>100<br>Wet Dry<br>6,205<br>-<br>Palawija repres<br>Wet Dry<br>-<br>Palawija repres<br>Subject Aree<br>Wet Dry<br>-<br>-<br>Palawija repres<br>-<br>Subject Aree<br>Wet Dry<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     - 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Pad<br>Stubjecz<br>Wet<br>0<br>0<br>Wet<br>21<br>0<br>0<br>Wet<br>21<br>0<br>0                                   | dy Field<br>gable Lar<br><i>I</i> Area<br>Dry I<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 5,076<br>s,076<br>by II 4,568<br>5,076<br>Dry II 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Pac<br>Subjec<br>Wet<br>0<br>0<br>Wet<br>33<br>0<br>0          |                                                                                                                                                                                  | 1,900<br>nd<br>1,900<br>Dry II<br>1,330<br>95<br>1,425<br>Dry II<br>70<br>5<br>75<br>75<br>75<br>75<br>75<br>0<br>ry II<br>6,650<br>4<br>475<br>4<br>5,0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>ry 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Pac<br>Non-irri<br>Subjece<br>Wet<br>2,983<br>2,983<br>Wet<br>0 100<br>99<br>Wet<br>0 100<br>100<br>99<br>Wet<br>0 100<br>100<br>99<br>Wet<br>0 100<br>100<br>100<br>100<br>99<br>Wet<br>0 100<br>100<br>100<br>99<br>Wet<br>0 100<br>100<br>100<br>100<br>100<br>100<br>100<br>99<br>Wet<br>0 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1 | -           Idy Field           ggabe Lar           ggabe Lar           Dry I           298           Dry I           0           10           0           10           0           0           0           0           0           0           1490           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -                                                    | 2,9833,000<br>Dry III<br>2,685<br>2988<br>2988<br>2988<br>2988<br>2988<br>2988<br>2988<br>29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
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| 1. With Project     1. Land Use     11. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Irrigated Paddy / ha     - Palawija 2/ ha     3. Cropping Intensity 7/     - Palawija 2/ %     - Palawija 2/ %     - Palawija 2/ %     - Palawija 2/ ton     - Palawija 2/ tha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     - Crop Production     - Inrigated Paddy ton     - Palawija 2/ ton     - Crop Production     - Inrigated Paddy ton     - Palawija 2/ ton     - Crop Production     - Increment (With - Present)     1. Land Use     - Paddy ha     - Others ha     Total ha     3. Cropping Intensity 7/     - Paddy %     - Others ha     - Paddy %     - Others %     - Paddy %     - Others %     - Paddy Production for     - Paddy     - Paddy     - Ma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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3.2.3<br>ha<br>ha<br>ha<br>Annual<br>1700<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.0<br>5.0.00<br>5.0.00<br>5.0.00<br>5.0.00<br>5.0.00<br>5.0.00<br>5.0.000<br>5.0.000<br>5.0.000<br>5.0.0000<br>5.0.0000<br>5.0.00000<br>5.0.00000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dy Field<br>ggabe Lar<br><i>t Area</i><br>Dry 1<br>298<br>298<br>Dry 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+.0<br>ha<br>ha<br>ha<br>5.668<br>596<br>6.264<br>Annual<br>190<br>210<br>210<br>210<br>210<br>209<br>Annual<br>5.0<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.980<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.970<br>2.9700<br>2.9700<br>2.9700<br>2.9700<br>2.9700<br>2.9700<br>2.9700<br>2.9700<br>2.9700<br>2.97000<br>2.9700<br>2.97000<br>2.97000000000000000000000000000000000000                                                                                                                                                                                                                                               |

AT - 39

1/: Paddy grown under rainfed condition in irrigated field 2/: Palawija in irrigated field 3/: Palawija in upland field 4/: Cropping intensity in each land use category; Irri. Paddy Field, in rainfed field & upland field, respectively and overall to subject area 5/: Irrigation performances --- Cropping intensity of irrigated paddy & palawija in irrigated field; not including paddy grown under rainfed conditions 6/: Overall annual average paddy yield (annual paddy production ÷ annual total cropped area of paddy) 7/: Cropping intensity in irrigated field

#### Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 6/7

Instatus Schwein         41. Preak Freid         Schwein         63. Sensegang         64. Preak Schwein         65. Name Skraute Knam         64. Name Skraute Knam	Sijambi           885         ha           28         ha           28         ha           1,008         ha           Dry II         Annual           443         1,328           0         0           0         0           0         0           0         443           0         50           0         50           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         44           0ry II         Annual
Intervention Protect         In Pada/s Field         200         In         In Pada/s Field         303         In <td>885         ha           28         ha           28         ha           1,008         ha           1,008         ha           1,1328         0           0         0           0         95           0         443           0         95           0         443           0         1,451           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0</td>	885         ha           28         ha           28         ha           1,008         ha           1,008         ha           1,1328         0           0         0           0         95           0         443           0         95           0         443           0         1,451           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0
Result Parky Field         Image Parky Field	edd         95         ha           28         ha         1,008         ha           1,008         ha         1,328         0           443         1,328         0         0           0         0         0         0           28         0         443         1,328           0         443         1,328         0           0         50         150         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         100         0           0         44         144         144
Uncellvared Land         In         Uncellvared Land	28         ha           1,008         ha           1,0108         ha           443         1,328           0         0           0         0           28         0           0         95           0         443           1,328         28           0         50           0         50           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0 <t< td=""></t<>
2         Oppol Arma         Wet         Doy 1         Doy 1         Doy 1         Annual         Wet         Doy 1	1,000         Annual           Dry II         Annual           443         1,328           0         0           95         28           0         443           1,451         Dry II           Dry II         Annual           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0  <
- Intracted Paddy         - Intract         - Paddy         - Paddy <td>443         1,328           0         0           928         0           Dry II         Annual           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         44           1         Annual</td>	443         1,328           0         0           928         0           Dry II         Annual           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         44           1         Annual
- Paday (Ranch) //         2,309         (D)         2,309         (D)         2,309         (D)         (D) <td>0 0 95 28 0 0 443 1,451 Dry II Annual 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0 0 95 28 0 0 443 1,451 Dry II Annual 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
- Falande Pady ha       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	0         0           95         28           0         443         1,451           0         50         150           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         100         0           0         44         144           0         0         44         144
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	28           0         443         1.451           Dry II         Annual         0         50           0         0         0         0           0         0         0         0           0         0         0         0           0         50         150           0         0         0         0           0         0         100         0           0         0         0         100           0         0         100         0           0         44         144           Dry II         Annual         2ry II
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0 443 1,451 Dry II Annual 0 50 150 0 0 0 0 0 50 150 0 50 150 0 0 0 0 0 0 0 0 0 0 0 100 0 44 144 Dry II Annual
3. Cropping Intensity 4 Wet Dry 1 Dry II Annual Wet Dr	Dry II         Annual           0         50         150           0         0         0         0           0         0         0         0           0         50         150           0         0         0         0           0         50         150           0         0         0         0           0         0         100           0         44         144           Dry II         Annual
- mader flauker solution in the solution of th	0 30 130 0 0 0 0 0 0 0 50 150 0 100 0 0 100 0 44 144 Dry II Annual
- Palavija 27         6         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	0         0         0         0           0         50         150         100           0         0         100         0         100           0         44         144         Dry II         Annual
Instruct Pield S ¹ 0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	0 50 150 0 0 100 0 44 144 Dry II Annual
- Rainfed Paddy       %       100       100       0       100       0       100       0       100       0       100       0       0       100       0       100       0       0       100       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	0         0         100           0         44         144           Dry II         Annual
- Palawigi 3/       rawigi 3/ </td <td>0 0 100 0 44 144 Dry II Annual</td>	0 0 100 0 44 144 Dry II Annual
4       Crop Yield       Wet       Dry I       Annual       Wet       Dry II       Annual <td>Dry II Annual</td>	Dry II Annual
- Irrigated Paddy         tha         4.0         4.0         4.0         4.5         4.2         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5	
- Paday (kanted) //       2.3       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5       2.5<	3.5 3.8
- Tanwala	
Palawija 3/         Uha         Corp Production         Wet         Dry II         Annual         Wet <td></td>	
5. Crop Production       Wet       Dry I       Dry I <td>-</td>	-
- irrigate Paday       info       0       0       0       0       0       0       0       0       0       0       1,158       0,200       1,178       0       1,215       1,290       11,789       0       3,260       13,379       3,340       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>Dry II Annual</td>	Dry II Annual
Destrict	0 1,551 5,091
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0 0 0
- Palawija 3/       ton       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	238
10tain raduy Production ton       5/73       0       0       5/74       0       0       5/78       9/78       9/78       0       1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259       1/1/259	0 0 70
6. Av. Paddy Yield 6/ t/ha       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	d by maize (composite)
II. With Project       Irri. Paddy Field       2,309       ha       Irri. Paddy Field       1,100       ha       Irri. Paddy Field       1,558       ha       Irri. Paddy Field       1,350       ha       Irri. Paddy Field       1,723       ha       Irri. Paddy Field       Irri. Paddy Field       1,723       ha       Irri. Paddy Field       Irri. Pa	3.7
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	4 1.000 ba
Subject Area         2,309         ha         Subject Area         1,400         ha         Subject Area         1,558         ha         Subject Area         3,953         ha         Subject Area         1,723         ha         Subject Area           2. Cropped Area         Wet         Dry I         Dry II         Annual         Wet         Dry I         Annual         Wet         Dry I </td <td>$\frac{1}{at}$ 1,000 ha</td>	$\frac{1}{at}$ 1,000 ha
2. Cropped Area         Wet         Dry I         Dry II         Annual         Wet         Dry I         Annual	1,008 ha
- irrigated Paddy ha 2,309 1,155 3,464 1,100 880 1,980 1,376 1,238 2,614 1,558 1,58 3,116 1,350 945 2,295 3,953 2,767 6,720 1,723 1,723 3,446 1,000	Dry II Annual
Palavna 7/ Bal 100 100 100 100 100 100 100 100 100 10	1,000 2,000
- Falavija 2 ita 110 117 110 110 110 110 110 110 110 110	0 200
3. Cropping Intensity 7/ Wet Dry I Dry II Annual Wet Dry I	Dry II Annual
- Irrigated Paddy % 100 0 50 150 100 0 80 180 100 0 90 190 100 0 100 200 100 0 70 170 100 0 70 170 100 0 100 200 100 0	0 100 200
- Palawija 2/ % 0 0 5 5 10 0 10 10 0 10 10 10 10 10 10 10 0 10 0 10 0 0 10 0 0 10 0 0 10 0 10 0 10 0 10 0 0 10 0 0 0 10 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 0 20 20 100 220
Overall to Subject Area         6         100         0         55         155         100         0         90         190         98         197         100         100         210         100         0         60         101         100         200         100         100         210         100         200         100         100         210         100         0         60         60         60         60         60         60         60         60         60         60         60         60         70         113         100         100         210         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200	0 99 218
4. Crop Yield Wet Dry I Dry II Annual Wet Dry I	Dry II Annual
- trigated Paddy tha 4.5 4.5 4.5 5.5 5.0 5.3 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.5 5.5	4.5 4.8
- rativitya 2 Unia - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0	Dry II Annual
- Irrigated Paddy ton 10,391 0 5,198 15,588 6,050 0 4,400 10,450 6,880 0 6,190 13,070 7,790 0 7,790 15,580 7,425 0 5,198 12,623 21,742 0 15,219 36,960 8,615 0 9,477 18,092 5,000 0	0 4,500 9,500
- Palawija 2/ ton 0 575 575 0 550 550 0 690 690 780 0 780 0 675 675 0 990 990 860 0 860 1,000	0 0 1,000
	4.8
Palawija represented by maize (hvbrid) Palawija represent	ited by maize (hybrid)
Increment (With - Present)	
1. Land Use Irri. Paddy Field 0 ha Irri. Paddy Field 180 ha Irri. Paddy Field 57 ha Irri. Paddy Field 295 ha Irri. Paddy Field 0 ha Irri.	
Subject Area 0 na Subject Area	d 115 ha
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	d 115 ha 0 ha
- Others ha 0 115 115 0 18 18 0 138 57 156 0 156 0 0 0 0 0 0 -197 -197 172 0 164 200	d 115 ha 0 ha Dry II Annual 0 557 577
Total ha 0 0 1,270 1,270 0 0 83 83 -24 0 1,376 1,352 0 156 674 830 0 0 675 675 0 0 1,779 1,779 230 172 155 557 -8 200	d 115 ha 0 ha Dry II Annual 0 557 577 0 0 172
3. Cropping intensity // Wet Dry I Dry II Annual Dry I Dry II Annual Dry I Dry	d 115 ha 0 ha 0 bry II Annual 0 557 577 0 0 172 0 557 749 0 0 4
$1 - r_{MMM}$ (a) (a) (a) (a) (a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	d 115 ha 0 ha 0 bry II Annual 0 557 577 0 0 172 0 557 749 Dry II Annual 0 50 50
<u>- raduy → 100 0 - 30 130 11 0 - 7 3 2 0 70 72 0 0 30 30 0 0 30 30 0 0 30 30 14 0 9 23 0 0</u> - Others % 0 0 0 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	d         115         ha           0         ha         0         ha           Dry II         Annual         0         557           0         0         172         0           0         557         749         Dry II         Annual           0         50         50         0         0         20
- raduy       /o	d         115         ha           0         ha         0         ha           Dry II         Annual         0         557         577           0         0         172         0         557         749           Dry II         Annual         0         50         50         0         20           0         50         50         70         0         20         50         70

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1/: Paddy grown under rainfed condition in irrigated field 2/: Palawija in irrigated field 3/: Palawija in upland field 4/: Cropping intensity in each land use category; Irri. Paddy Field, in rainfed field, respectively and overall to subject area 5/: Irrigation performances --- Cropping intensity of irrigated paddy & palawija in irrigated field; not including paddy grown under rainfed conditions 6/: Overall annual average paddy yield (annual paddy production + annual total cropped area of paddy) 7/: Cropping intensity in irrigated field

District			Inter-d	istrict Sch	neme - co	ntinued							
Irrigation Scheme		49. Ramb	oung Mera	1		50. Paya	Sordang			Ove	rall Province		
I. Present/Before Project							-						
1. Land Use	Irri. Padd	ly Field	944	ha	Irri. Pado	ly Field	3,979	ha	Irri. Paddy Fie	ld	72,620	ha	80%
	Rainfed P	addy Field		ha	Rainfed P	addy Field	371	ha	Rainfed Paddy	/ Field	11,346	ha	13%
	Uncultiva	ated Land		ha	Uncultiv	ated Land		ha	Non-paddy Fi	eld	6,584	ha	7%
	Subjec	t Area	944	ha	Subjec	t Area	4,350	ha	Subjec	t Area	90,550	ha	100%
<ol><li>Cropped Area</li></ol>	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	
<ul> <li>Irrigated Paddy ha</li> </ul>	944		786	1,730	3,562		2,862	6,424	62,565	0	42,987	105,552	81%
<ul> <li>Paddy (Rainfed) 1/</li> </ul>				0				0	7,397	0	0	7,397	6%
- Palawija 2/ ha			89	89				0	100	143	3,762	4,005	3%
- Rainfed Paddy ha				0	371			371	11,346	0	0	11,346	9%
- Palawija 3/ ha	0.1.1		075	0	2.022		0.070	0	2,690	0	0	2,690	2%
I otal ha	944	0	8/5	1,819	3,933	0	2,862	6,795	84,098	143	46,749	130,990	100%
3. Cropping Intensity 4/	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	
- Irrigated Paddy %	100	0	83	183	90	0	/2	161	86	0	59	145	
Paddy (Rainied) 1/ %	0	0	0	0	0	0	0	0	10	0	0	10	
- Palawija 2/ %	100	0	9	102	0	0	72	161	0	0	5	151	
Rainfad Baddy 9/	100	0	93	195	90	0	12	101	100	0	04	131	
- Kallieu Faddy 76					100			100	100	0	0	100	
Overall to Subject Area %	100	0	02	103	00	0	66	156	93	0	52	93	
4 Cron Vield	Wet	Dry I	Dry II	Δnnual	90 Wet	Dry J	Dry II	Δnnual	Wet	Dry I	Dry II	Δnnual	
- Irrigated Paddy t/ha	4.5	Diyi	4.5	4 5	4.5	Diyi	4.5	4 5	4.2	Diyi	41	4 7	
- Paddy (Rainfed) 1/	4.5		4.3	ч.3	4.5		4.5	4.3	4.2		-4.1		
- Palawija 2/ t/ha			2.5	-				_	2.3				
- Rainfed Paddy t/ha			2.5		2.5				2.5			2.5	
- Palawija 3/ t/ha				-	2.0			-	2.0			-	
5 Crop Production	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	Wet	Dry I	Dry II	Annual	
- Irrigated Paddy ton	4.248	0	3.537	7,785	16.029	0	12.879	28,908	262.276	0	176.052	438.328	
- Paddy (Rainfed) 1/ton	0		0,001	0	0		,	0	18,493	0	0	18,493	
- Palawija 2/ ton	0	0	223	223	0	0	0	0	250	358	9,405	10,013	
- Rainfed Paddy ton	0			0	928			928	28,365	0	0	28,365	
- Palawija 3/ ton	0	0	0	0	0	0	0	0	6,725	0	0	6,725	
Total Paddy Production ton	4,248	0	3,537	7,785	16,957	0	12,879	29,836	309,134	0	176,052	485,185	
	Delessiin a	4 1	1 . (	2.2									
	Palawija i	epresented	by maize (c	composite)									
6. Av. Paddy Yield 6/ t/ha	Palawija i	epresented -	by maize (c	4.5	-	_	-	4.4	3.8		4.1	3.9	
6. Av. Paddy Yield 6/ t/ha II. With Project	-	epresented -	by maize (c	4.5	-	-	-	4.4	3.8		4.1	3.9	
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use	Irri. Pad	ldy Field	944	ha	- Irri. Pac	- Idy Field	4,350	4.4 ha	3.8 Irri. Paddy Fie	ld	4.1 88,576	3.9	
<ol> <li>Av. Paddy Yield 6/ t/ha</li> <li>II. With Project</li> <li>1. Land Use</li> </ol>	Irri. Pac	ldy Field	944 944	ha ha	Irri. Pac Non-irr	ldy Field igable Lai	4,350 nd	4.4 ha ha	3.8 Irri. Paddy Fie Non-irrigable	ld Land	4.1 88,576 1,974	3.9 ha ha	
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use	Irri. Pac Non-irri Subjec	dy Field igable Lat	944 944 944	ha ha ha	Irri. Pac Non-irr Subjec	dy Field igable Lau	4,350 nd <i>4,350</i>	4.4 ha ha	3.8 Irri. Paddy Fie Non-irrigable Subjec	ld Land t Area	4.1 88,576 1,974 90,550	3.9 ha ha ha	
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area	Irri. Pad Non-irri Subjec Wet	Idy Field igable Lat Dry I	944 944 nd 944 Dry II	ha ha ha Annual	Irri. Pac Non-irr Subjec Wet	- ldy Field igable Lau et Area Dry I	- 4,350 nd <i>4,350</i> Dry II	4.4 ha ha Annual	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet	ld Land t Area Dry I	4.1 88,576 1,974 90,550 Dry II 60.061	3.9 ha ha ha Annual	049/
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha Pelowija 7/ ba	Irri. Pad Non-irri Subjec Wet 944	Idy Field igable Lat t Area Dry I	944 944 nd 944 Dry II 944	ha ha ha Annual 1,888	Irri. Pac Non-irr Subjec Wet 4,350	- ldy Field igable Lar t Area Dry I	4,350 nd 4,350 Dry II 3,480	4.4 ha ha Annual 7,830	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576	ld Land <i>t Area</i> Dry I 0 2 306	4.1 88,576 1,974 90,550 Dry II 69,061	3.9 ha ha Annual 157,637	94%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha - Tota ha	Irri. Pad Non-irri Subjec Wet 944	Idy Field igable Lau t Area Dry I	944 944 nd 944 Dry II 944	ha ha ha Annual 1,888 188	Irri. Pac Non-irr Subjec Wet 4,350	ldy Field igable Lar <i>t Area</i> Dry I	4,350 ad <i>4,350</i> Dry II 3,480 435 3,915	4.4 ha ha Annual 7,830 435 8 265	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576	ld Land t Area Dry I 0 3,396 3 396	4.1 88,576 1,974 90,550 Dry II 6,9,061 6,123 75,184	3.9 ha ha Annual 157,637 9,519	94%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping lutanetic	Irri. Pad Non-irri Subjec Wet 944 944	Idy Field igable Lat t Area Dry I 188 188	944 944 nd 944 944 944 944	4.5 ha ha ha ha 1,888 188 2,076	Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet	ldy Field igable Lat t Area Dry I	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II	4.4 ha ha Annual 7,830 435 8,265	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 88,576	ld Land t Area Dry I 0 3,396 3,396	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II	3.9 ha ha Annual 157,637 9,519 167,156	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping Intensity 7/ - Irrigated Paddy %	Irri. Pad Non-irri Subjec Wet 944 944 Wet	Idy Field igable Lat t Area Dry I 188 188 Dry I	944 944 nd 944 Dry II 944 944 Dry II 100	ha ha ha ha 1,888 188 2,076 Annual 200	Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet	ldy Field igable Lan <i>et Area</i> Dry I 0 Dry I	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80	4.4 ha ha Annual 7,830 435 8,265 Annual	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 88,576 Wet	ld Land t Area Dry I 0 3,396 3,396 Dry I 0	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78	3.9 ha ha Annual 157,637 9,519 167,156 Annual	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ %	Irri. Pad Non-irri Subjec Wet 944 944 Wet 100	Idy Field igable Land of Area Dry I 188 188 Dry I 0 20	944 944 nd 944 Dry II 944 944 Dry II 100 0	ha ha ha Annual 1,888 2,076 Annual 200 200	Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100	ldy Field igable Lan <i>et Area</i> Dry I 0 Dry I 0 0	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 10	4.4 ha ha Annual 7,830 435 8,265 Annual 180 10	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 88,576 Wet 100 0	ld Land Dry I 0 3,396 3,396 Dry I 0 4	4.1 88,576 1,974 90,550 Dry II 6,123 75,184 Dry II 78 7	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 11	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Total %	Irri. Pad Non-irri Subjec Wet 944 944 Wet 100	ldy Field igable Lai tt Area Dry I 188 188 Dry I 0 20 20	944 944 Dry II 944 944 Dry II 100 0	ha           ha           ha           ha           ha           ha           ha           la           la           la           la           la           ha           la	Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100	dy Field igable Lau <i>t Area</i> Dry I 0 Dry I 0 0 0	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 10 90	4.4 ha ha Annual 7,830 435 8,265 Annual 180 10	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 88,576 Wet 100 0 0	ld Land Dry I 0 3,396 3,396 Dry I 0 4 4	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 11 189	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha - Palawija 2/ % - Palawija 2/ % Overall In Subject Area %		dy Field igable Lan <i>t Area</i> Dry I 188 188 Dry I 0 20 20 20	944 944 nd 944 0ry II 944 0ry II 100 0 100	a           ha		ldy Field igable Lan <i>t Area</i> Dry I 0 Dry I 0 0 0 0 0 0	4,350 nd <i>4,350</i> Dry II 3,480 435 3,915 Dry II 80 10 900	4.4 ha ha Annual 7,830 435 8,265 Annual 180 10 1900	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 Wet 100 00 00 98	ld Land <i>t Area</i> Dry I 0 3,396 3,396 Dry I 0 4 4 4	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 11 189 185	94% 6% 100%
6. Av, Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield	Panawija P           Irri. Pad           Non-irri           Subject           Wet           944           Wet           100           100           Wet	dy Field igable Lan <i>t Area</i> Dry I 188 Dry I 0 20 20 20 Dry I	944 944 0ry II 944 0ry II 944 0ry II 100 0 100 100 0 0 0 0 0 0 0 0 0 0 0 0	a         ba           ha         ha           1,888         188           2,000         200           2200         2200           Annual         Annual	- Irri. Pac Non-irr Subjec Wet 4,350 Wet 100 100 100 Wet	ldy Field igable Lan <i>t Area</i> Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 4355 Dry II 80 10 90 90 0 Dry II	4.4 ha ha Annual 7,830 435 8,265 Annual 180 10 190 <i>190</i> Annual	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 Wet 100 0 100 98 Wet	ld Land Dry I 0 3,396 3,396 Dry I 0 4 4 4 4 Dry I	4.1 88,576 1,974 90,550 Dry 11 69,061 6,123 75,184 Dry 11 78 78 78 85 85 85 85 85	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 11 189 185 Annual	94%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha	Irri. Pac Non-irri Subjec Wet 944 Wet 100 100 100 Wet 5.5	ldy Field igable Lai <i>t Area</i> Dry I 188 188 Dry I 0 200 200 Dry I	944 944 0ry II 944 0ry II 944 0ry II 100 0 100 100 0 0 0 0 0 0 0 0 0 0 0 0	a         ba           ha         ha           188         2,076           Annual         200           2200         2200           Annual         5.5	- Irri. Pac Non-irr Subjec Wet 4,350 Wet 100 - 100 - 100 Wet 5.5	ldy Field igable Lat t Area Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 4355 3,915 Dry II 80 10 90 90 Dry II 5.5	4.4 ha ha Annual 7,830 435 8,265 Annual 180 190 190 Annual 5,5	3.8 Irri. Paddy Fie Non-irrigable Subjec 88,576 Wet 100 0 0 0 100 98 Wet 5.1	ld Land t Area 0 3,396 3,396 Dry I 0 4 4 4 0 Dry I	4.1 88,576 1,974 90,550 Dry II 6,023 75,184 Dry II 78 77 85 83 Dry II 5.1	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5,1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ Palawija 2/ % Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ t/ha	Parawija P           -           Irri. Pać           Non-irri           Subjec           Wet           944           Wet           100           100           100           5.5	ldy Field igable Lau t Area Dry 1 188 188 Dry 1 0 0 200 200 200 Dry 1 5.0	944 944 0944 0944 0944 0944 0944 0944 0944 000 00 000 0	a         ba           ha         ha           1.888         188           2.00         200           220         220           220         5.5		ldy Field igable Lan <i>t Area</i> Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 10 90 90 Dry II 5.5.5 5.0	4.4 ha ha Annual 7,830 435 8,265 Annual 180 100 190 Annual 5,55	3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 88,576 Wet 100 0 100 98 Wet 5.1	ld Land 1 Area Dry I 3,396 3,396 Dry I 0 4 4 4 0 Vry I 5,0	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 833 Dry II 5.1	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 1855 Annual 5.0	94% 6% 100%
6. Av, Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ t/ha 5. Crop Production	Irri. Pac           Irri. Pac           Non-irri           Subjec           Wet           944           944           944           00           1000           1000           Wet           5.5           Wet	ldy Field igable Lau <i>t Area</i> Dry 1 188 Dry 1 0 200 200 200 Dry 1 5.0 Dry 1	944 nd 944 Dry II 944 Dry II 100 0 0 100 Dry II 5.5 Dry II	a         ha           ha         ha           Annual         1,888           2,006         2200           2200         2200           Annual         5.5           -         -           Annual         -		ldy Field igable Lan <i>t Area</i> Dry 1 0 0 Dry 1 0 0 0 0 0 0 0 Dry 1	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 90 90 Dry II 5.5 5.00 Dry II	4.4 ha ha 7,830 435 8,265 Annual 180 190 190 Annual 5.5 Annual	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ld Land t Area 0 3,396 3,396 Dry I 4 4 4 4 4 0 y I 5.0 Dry I	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 75,184 0ry II 5.1 5.0 Dry II	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.1 5.1 0 Annual	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton	Patawija II           -           Irri. Pać           Non-irri           Subjec           Wet           944           Wet           1000           1000           Wet           5.5           Wet           5.192	dy Field igable Land <i>t Area</i> Dry 1 188 Dry 1 0 200 200 Dry 1 5.0 Dry 1 0 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	944 944 0944 0ry II 944 944 944 944 0ry II 100 0 0 0 0 0 0 0 0 0 0 0 0	A.5           ha           ha           ha           ha           ha           ka           ha           2,076           Annual           2,200           2,200           2,5.5           -           Annual           10,384		ldy Field igable Lan t Area Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 80 90 90 Dry II 5.5 5.0 Dry II 19,140	4.4 ha ha Annual 7,830 435 8,265 Annual 180 190 190 Annual 5.5 5.5 4 Annual 43,065	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 Wet 100 00 00 00 98 Wet 5.1 Wet 447,395	ld Land 1 Area Dry I 0 3,396 3,396 Dry I 0 4 4 4 4 0 Dry I 5.0 Dry I 0 0	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.0 Dry II 349,956	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 Annual 5.1 5.0 Annual 797,351	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ Palawija 2/ % Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % 0.verall to Subject Area % 4. Crop Yield - Irrigated Paddy tha - Palawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ to	Panawija i           -           Irri. Pac           Non-irri           Subjece           Wet           944           Wet           100           100           100           100           Vet           5.5           Wet           5,192	Image: system         Image: system           Idy Field         igable Land           igable Land         t Area           Dry I         image: system           188         BR           Dry I         image: system           0         200           200         200           Dry I         image: system           0         200           Dry I         image: system           0         5.0           0         940	944 944 077 944 077 11 944 944 077 11 100 0 0 100 100 100 100	A.5           ha           ha           ha           ha           Annual           1,888           188           2,076           Annual           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200 <td></td> <td>Idy Field Idy Field Igable Lat The field Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>4,350 nd 4,350 Dry II 3,480 4355 3,915 Dry II 80 90 90 0ry II 5,55 5,0 Dry II 19,140 2,175</td> <td>4.4 ha ha Annual 7,830 435 8,265 8,265 Annual 180 100 190 Annual 5.5 Annual 43,065 2,175</td> <td>3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 88,576 Wet 100 0 0 00 98 Wet 5.1 Wet 447,395 0</td> <td>ld Land t Area Dry I 3,396 3,336 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 0 16,980</td> <td>4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 833 Dry II 5.1 0 Dry II 5.0 Dry II 349,956 30,615</td> <td>3.9 ha ha ha 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.0 Annual 797,351 47,595</td> <td>94% 6% 100%</td>		Idy Field Idy Field Igable Lat The field Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 4355 3,915 Dry II 80 90 90 0ry II 5,55 5,0 Dry II 19,140 2,175	4.4 ha ha Annual 7,830 435 8,265 8,265 Annual 180 100 190 Annual 5.5 Annual 43,065 2,175	3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 88,576 Wet 100 0 0 00 98 Wet 5.1 Wet 447,395 0	ld Land t Area Dry I 3,396 3,336 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 0 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 833 Dry II 5.1 0 Dry II 5.0 Dry II 349,956 30,615	3.9 ha ha ha 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.0 Annual 797,351 47,595	94% 6% 100%
6. Av, Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ t/ha S. Crop Production - Irrigated Paddy ton - Irrigated Paddy ton - Palawija 2/ ton	Panawija i           -           Irri. Pac           Non-irri           Subjecc           Wet           944           Wet           100           100           Wet           5.5           Wet           5,192	Image: system         Image: system           igable Laat         -           igable Laat         -           igable Laat         -           Dry I         -           188         Dry I           0         200           200         200           Dry I         -           5.0         Dry I           0         940	944 944 Dry II 944 944 0ry II 100 0 100 0 0 0 0 0 0 0 0 0 0 0 0	a         ha           ha         ha           logo         200           2200         2200           Annual         5.5           -         -           Annual         10,384           940         -		ldy Field igable Lau t Area Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 hd 4,350 Dry II 3,480 435 3,915 Dry II 80 90 90 Dry II 5,55 5,0 Dry II 19,140 2,175	4.4 ha ha Annual 7,830 435 8,265 Annual 180 190 Annual 43,065 2,175	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 00 00 00 00 98 Wet 5.1 Wet 447,395 0	ld Land t Area 0 3,396 3,396 Dry I 0 4 4 4 4 4 0 7 1 5.0 0 Dry I 5.0 0 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 75,184 Dry II 78 75,184 Dry II 5.1 5.1 5.1 349,956 30,615	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 5.1 5.1 5.1 5.1 5.1 47,555	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha <b>II. With Project</b> 1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     S. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha	Panawija i           Irri. Pać           Inri. Subjec           Wet           944           Wet           100           100           Wet           5,5           Wet           5,192	idy Field           igable Lar           igable Lar           i Dry I           188           Dry I           0           200           200           Dry I           5.0           Dry I           0           940	944 944 077 944 078 944 079 100 100 00 00 00 00 00 00 00	a           ha           100           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200           200 <td></td> <td>Idy Field igable Lau 1 Area Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 800 90 90 Dry II 5,5 5,0 Dry II 19,140 2,175</td> <td>4.4 ha ha Annual 7,830 4355 8,265 Annual 1800 1900 1900 Annual 5.5 Annual 43,065 2,175 5.5</td> <td>3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>ld Land 1 Area Dry I 0 3,396 3,396 Dry I 0 4 4 4 Dry I 5.0 Dry I 0 16,980</td> <td>4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 833 Dry II 5.1 0 5.0 Dry II 5.0 349,956 30,615</td> <td>3.9 ha ha ha 157,637 9,519 167,156 Annual 118 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1</td> <td>94% 6% 100%</td>		Idy Field igable Lau 1 Area Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 800 90 90 Dry II 5,5 5,0 Dry II 19,140 2,175	4.4 ha ha Annual 7,830 4355 8,265 Annual 1800 1900 1900 Annual 5.5 Annual 43,065 2,175 5.5	3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land 1 Area Dry I 0 3,396 3,396 Dry I 0 4 4 4 Dry I 5.0 Dry I 0 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 833 Dry II 5.1 0 5.0 Dry II 5.0 349,956 30,615	3.9 ha ha ha 157,637 9,519 167,156 Annual 118 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha - Palawija 2/ ha - Palawija 2/ % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ t/ha 5. Crop Production - Palawija 2/ t/ha - Palawija 2/ t/h	Panawija i           -           -           Irri. Pac           Non-irri.           Subjec           Wet           944           944           944           944           944           944           944           944           945           100           100           Wet           5.5           Wet           5,192           -           Palawija	dy Field igable Lai gable Lai Dry 1 188 Dry 1 0 200 200 200 Dry 1 5.0 Dry 1 0 940	944 944 944 944 944 944 944 944	a         ha           ha         ha           lass         2,076           Annual         200           2200         2200           Annual         5.5           -         -           Annual         10,384           9400         5.5           e (hybrid)         5.5		ldy Field igable Large I Area Dry I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 900 900 Dry II 19,140 2,175 - d by maize	4.4 ha ha Annual 7,830 4355 8,265 Annual 180 190 190 Annual 5.5 2,175 5.5 5 ((hybrid)	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 833 Dry II 5.1 0 Dry II 349,956 30,615 	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 1855 Annual 5.0 Annual 797,351 47,555 5.1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % - Palawija 2/ % - Vrigated Paddy tha - Irrigated Paddy tha - Irrigated Paddy tha - Irrigated Paddy tha - Irrigated Paddy ton - Irrigate	Irri. Pad Non-irri Subjec Wet 944 944 Wet 100 100 Wet 5.5 Wet 5.192 Palawija	ldy Field igable Lat <i>t Area</i> Dry 1 188 Dry 1 0 200 200 Dry 1 0 5.0 Dry 1 0 940 - - represented	944 944 079 944 079 944 079 100 0 0 0 0 0 0 0 0 0 0 0 0	a         a           ha         ha           Annual         200           2200         2200           2200         2200           200         Annual           5.5         -           Annual         10,384           940         5.5           e (hybrid)         -	Irri. Pac Non-irr Subjec Wet 4,350 Wet 100 100 Wet 5.5 Wet 23,925 Palawija	ldy Field igable Last <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 90 0 Dry II 19,140 2,175 	4.4 ha ha Annual 7,830 435 8,265 Annual 180 100 190 Annual 43,065 2,175 5.5 : (hybrid)	3.8 Irri. Paddy Fie Non-irrigable Subjec Wet 88,576 88,576 Wet 100 00 00 98 Wet 5.1 Wet 447,395 0 -	ld Land t Area 0 3,396 3,396 Dry I 4 4 4 4 4 0 7 1 5.0 0 Dry I 5.0 0 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 7,184 Dry II 78 75,184 0 15,00 Dry II 349,956 30,615 -	3.9 ha ha ha 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.1 797,351 47,595 5.1	94% 6% 100%
<ul> <li>6. Av. Paddy Yield 6/ t/ha</li> <li>II. With Project</li> <li>1. Land Use</li> <li>2. Cropped Area <ul> <li>Irrigated Paddy</li> <li>Palawija 2/</li> <li>ha</li> <li>Total ha</li> </ul> </li> <li>3. Cropping Intensity 7/</li> <li>Irrigated Paddy %</li> <li>Palawija 2/</li> <li>% Total %</li> <li>Overall to Subject Area %</li> <li>4. Crop Yield</li> <li>Irrigated Paddy t/ha</li> <li>Palawija 2/</li> <li>the palawija 2/</li> <li>to subject Area %</li> <li>Averaged Paddy ton</li> <li>Irrigated Paddy ton</li> <li>Irrigated Paddy ton</li> <li>Averaged Yield 6/</li> <li>the palawija 2/</li> <li>ton</li> <li>6. Averaddy Yield 6/</li> <li>that Increment (With - Present)</li> <li>1. Land Use</li> </ul>	rri. Pac Non-irri Subjec Wet 944 944 Wet 100 100 100 100 100 8.5.5 Wet 5.192 Palawija	lay Field igable Law <i>t Area</i> Dry 1 188 Dry 1 200 200 Dry 1 5.0 Dry 1 0 940 	944 944 944 944 944 0ry II 944 944 0ry II 100 100 100 0 0 0 0 0 0 0 0 0 0 0 0	somposite)           4.5           ha           1,888           2,076           Annual           2,00           2200           2200           2200           Annual           5.5           c           (hybrid)           5.5           c           hybrid)	Irri. Pac Non-irr Subjec Wet 4,350 Wet 100 100 Wet 5.5 Wet 23,925 Palawija	ldy Field igable Lau <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 0 90 90 90 0 Dry II 5.5 5.0 Dry II 5.5 5.0 Dry II 19,140 2,175 d by maiz	4.4 ha ha ha 7,830 4355 8,265 Annual 100 190 Annual 43,065 2,175 5,5 5(hybrid) ha k	3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land 1 Area Dry I 0 3,396 3,396 Dry I 0 4 4 4 Dry I 5.0 Dry I 0 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 85 83 Dry II 5.1 5.0 Dry II 5.0 Dry II 5.0 0 15,956	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ Analysis - Palawija 2/ Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ ton	Irri: Pada Non-irri Subjec Wet 944 944 Wet 100 100 Wet 5.5 Wet 5.192 Palawija	ligy Field ligy Field ligy Field ligy Field ligy Field 1 Area 1 Area 1 Area 1 R8 1	944 944 077 II 944 079 II 100 0 0 0 0 0 0 0 0 0 0 0 0	a           ha           1,888           2,006           Annual           2200           2200           2200           2200           2200           2200           Annual           10,384           940           5.5           e (hybrid)           ha           ha		Idy Field igable Laur 1 Area Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 80 90 90 0 Dry II 5,5 5,0 Dry II 9,140 2,175 d by maize 371 0 D t	4.4 ha ha Annual 7,830 435 8,265 Annual 180 190 Annual 5.5 2,175 2,175 5.5 2,175 5.5 2,175	3.8 Irri. Paddy Fie Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 0 Dry I 5.0 Dry I 0 16,980 - 16,980	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 855 853 Dry II 5.0 Dry II 349,956 30,615 - - 15,956 0	3.9 ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 1855 Annual 5.1 5.0 Annual 797,351 47,555 5.1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Prajawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ ton 6. Av. Paddy Yield 6/ t/ha Increment (With - Present) 1. Land Use 2. Cropped Area	Palawija i Trri. Pad Non-irri Subjec Wet 944 Wet 100 100 100 100 Wet 5.5 Wet 5.192 Palawija Irri. Pad Subjec Wet	ldy Field igable Lai t Area Dry 1 188 Dry 1 0 200 200 200 200 200 200 Dry 1 5.0 Dry 1 5.0 Dry 1 5.0 Dry 1 4.7 Constantion 1940 1940 1940 1940 1940 1940 1940 1940	oy maize (c 944 944 944 944 0ry II 100 0 0 100 100 100 100 100 100 100 1	annual           Annual           Annual           Annual           Annual           Annual           Annual	- Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100 100 100 100 Wet 5.5 S.5 Wet 23,925 Palawija Irri. Pac Subjec Wet	ldy Field igable Lau <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad <i>4,350</i> Dry II 3,480 435 3,915 Dry II 80 90 90 90 90 0 90 Dry II 19,140 2,175 d by maize 371 0 0 Dry II	4.4 ha ha Annual 17,830 435 8,265 Annual 180 190 190 190 190 190 4,065 2,175 5,5 c (hybrid) ha Annual Annual	3.8 Irri. Paddy Fie Subjec Wet 88,576 88,576 Wet 100 00 00 100 98 Wet 5.1 Wet 447,395 0 Irri. Paddy Fie Subjec	ld Land t Area 0 3,396 3,396 Dry I 4 4 4 4 4 4 5.0 Dry I 5.0 Dry I 5.0 16,980 - Id t Area	4.1 88,576 1.974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.0 Dry II 349,956 30,615 - - - - - - - - - - - - -	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 Annual 5.0 Annual 5.1 797,351 47,595 5.1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Moverall to Subject Area % Overall to Subject Area % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ tha 5. Crop Production - Irrigated Paddy ton - Padawija 2/ ton 6. Av. Paddy Yield 6/ t/ha Increment (With - Present) 1. Land Use - Paddy ha - Paddy ha	ranawija i rrri. Pad Non-irrr Subjec Wet 944 944 Wet 100 Wet 5.192 Wet 5.192 - Palawija Irri. Pad Subjec Wet 0 0 0 0 0 0 0 0 0 0 0 0 0	ldy Field igable Lai <i>Area</i> Dry I 188 Dry I 20 20 Dry I 5.0 Dry I 5.0 Dry I 5.0 Dry I 40 940 - - - - - - - - - - - - - - - - - - -	oy maize (c 944 nd 944 Dry II 944 944 0ry II 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	annual         1,888           1,888         1,888           1,888         1,888           1,888         1,888           2,076         0           200         200           200         200           200         200           200         5.5           c (hybrid)         5.5           c (hybrid)         5.5           a Annual         10,384           940         5.5           a Annual         110,384           940         5.5           a Annual         158           158         158	- Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100 100 Wet 5.5 Wet 23,925 - Palawija Irri. Pac Subjec Wet 417	- idy Field igable Lan <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 hd 4,350 Dry II 3,480 435 3,915 Dry II 800 100 90 90 00 00 00 00 00 00 00	4.4 ha ha Annual 7.830 4355 8.265 8.265 100 1900 Annual 43,065 2,175 5.5 5.5 5.5 (bybrid) ha ha Annual 43,065 2,175	3.8 Irri. Paddy Fic Non-irrigable Subjec Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land 1 Area Dry I 3,396 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 0 16,980 	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.1 5.0 Dry II 349,956 30,615 - 15,956 0 0 0	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 11 189 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1 ha ha	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Total % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ ton 6. Av. Paddy Yield 6/ t/ha Increment (With - Present) 1. Land Use 2. Cropped Area - Paddy ha - Paddy ha - Dady ha -	Palawija li Irri: Pada Non-irri Subjec Wet 944 Wet 100 Wet 5.5 Wet 5.192 Palawija Irri: Pad Subjec	dy Field           dy Field           gable La:           1/Area           Dry I           188           Dry I           0           2020           Dry I           0           Dry I           0           2020           Dry I           0           Dry I           0           0           dy Field           1/Area           Dry I           0           0           0           188           189	oy maize (c 944 nd 944 Dry II 100 0 100 100 0 0 0 0 0 0 0 0 0 0 0 0	imposite         4.5           ha         ha           ha         na           ha         na           1,888         188           1888         188           1888         188           1888         188           1888         188           2000         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020 <t< td=""><td>- Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100 100 Wet 5.5 Wet 23,925 - Palawija Irri. Pac Subjec Wet 417</td><td>ldy Field igable Lau <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 80 10 90 90 0 Dry II 5,5 5,00 Dry II 19,140 2,175 2,175 2,175 4 by maiz 3,711 0 Dry II 618 435 435 435 107 107 107 107 107 107 107 107</td><td>4.4 ha ha Annual 7,830 4353 8,265 8,265 8,265 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,0000 4,0000 4,000 4,0000 4,0000 4,00000000</td><td>3.8 Irri. Paddy Fie Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0</td><td>ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 16,980 - 16,980 - 16,980 - 16,980 - 16,980 -</td><td>4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.0 Dry II 349,956 30,615 - 15,956 0 26,074 2,367 2,6074 2,367 2,6074 2,367 2,567 0</td><td>3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1 5.1</td><td>94% 6% 100%</td></t<>	- Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100 100 Wet 5.5 Wet 23,925 - Palawija Irri. Pac Subjec Wet 417	ldy Field igable Lau <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 80 10 90 90 0 Dry II 5,5 5,00 Dry II 19,140 2,175 2,175 2,175 4 by maiz 3,711 0 Dry II 618 435 435 435 107 107 107 107 107 107 107 107	4.4 ha ha Annual 7,830 4353 8,265 8,265 8,265 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,0000 4,0000 4,000 4,0000 4,0000 4,00000000	3.8 Irri. Paddy Fie Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 16,980 - 16,980 - 16,980 - 16,980 - 16,980 -	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.0 Dry II 349,956 30,615 - 15,956 0 26,074 2,367 2,6074 2,367 2,6074 2,367 2,567 0	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1 5.1	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha     II. With Project     1. Land Use     2. Cropped Area     - Irrigated Paddy ha     - Palawija 2/ ha     Total ha     3. Cropping Intensity 7/     - Irrigated Paddy %     - Palawija 2/ %     Overall to Subject Area %     Crop Yield     - Irrigated Paddy t/ha     - Palawija 2/ t/ha     5. Crop Production     - Irrigated Paddy ton     - Palawija 2/ ton     6. Av. Paddy Yield 6/ t/ha     Increment (With - Present)     1. Land Use     2. Cropped Area     - Paddy in ha     - Paddy in ha     - Padady in ha     - Paday in the present)     1. Land Use     2. Cropped Area     - Paddy ha     - Others ha     - Others ha     - Cropening Intensity	Palawija li Irri. Pać Non-irri Subjec Wet 944 944 944 944 944 944 944 944 944 94	upresented         -           Idy Field         -           igable La.         -           Introduction         -           188         -           188         -           188         -           180         -           200         -           200         -           0         -           0         -           0         -           0         -           0         -           0         -           0         -           0         -           0         -           0         -           188         -           188         188           188         188           188         188	oy maize (c 944 nd 944 Dry II 944 944 944 944 07 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	imposite         4.5           ha         ha           ha         ha           ha         ha           lass         1.888           1.888         1.888           1.888         1.888           1.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.000           2.000         2.0		Idy Field igable Lan 1 Area Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 hd 4,350 Dry II 3,480 435 3,915 Dry II 10 90 90 00 Dry II 19,140 2,175 d by maize 3,71 0 0 Dry II 618 435 1,053 Dry II	4.4 ha ha Annual 7,830 4355 8,265 4,300 100 100 100 100 100 000 Annual 1800 Annual 1800 43,055 5,55 5,55 2,175 5,55 1,4300 43,055 2,175 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1	3.8 Irri. Paddy Fic <i>Subjec</i> <i>Subjec</i> Wet 88,576 Wet 100 00 00 00 00 00 00 00 00 0	ld Land 1 Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 16,980 - - - - - - - - - - - - - - - - - - -	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 73,184 Dry II 78 7 85 83 Dry II 5.0 Dry II 349,956 30,615 - - 15,956 θ - - - - - - - - - - - - -	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 Annual 5.0 Annual 5.1 5.0 Annual 797,351 47,595 5.1 ha ha ha	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha - Palawija 2/ ha - Palawija 2/ % - Palawija 2/ % - Palawija 2/ % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ ton 6. Av. Paddy Yield 6/ t/ha Increment (With - Present) 1. Land Use - Paddy ha - Others total 3. Cropping Intensity 7/ - Paddy ha - Others total ha - Coroping Intensity 7/ - Paddy ha - Others total ha - Croping Intensity 7/ - Paddy field - Present) - Paddy ha - Others total ha - Cropping Intensity 7/ - Paddy field - Present) - Paddy ha - Others total ha - Paddy field - Present) - Paddy ha - Others total ha - Cropping Intensity 7/ - Paddy field - Present) - Paddy field - Paddy field - Present) - Paddy field - Paddy field - Present) - Paddy field -	ranawija i rrii. Pad Non-irri Subjec Wet 944 944 944 Wet 100 100 Wet 5,192 - Palawija Irri. Pad Subjec Wet 0 0 0 0 0 0 0 0 0 0 0 0 0	epresented ddy Field ddy Field 14/rea Dry I 1888 Dry I 0 0 200 200 200 200 200 200 2	oy maize (c 944 nd 944 Dry II 1000 00 1000 00 00 00 00 00 00 00 00 00	ha         ha           2000         200           2020         200           2020         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000	- Irri. Pac Non-irr Subjec Wet 4,350 4,350 Wet 100 Wet 5.5 Wet 23,925 - Palawija Irri. Pac Subjec Wet 417 417 Wet	- idy Field igable Lan <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 10 90 00 07 07 10 11 19,140 2,175 3,71 0 07 19,140 10 10 10 10 10 10 10 10 10 1	4.4 ha ha Annual 7,830 8,265 8,265 Annual 1800 Annual 43,065 2,175 5,5,5 (hybrid) ha ha ha ha ha ha ha ha ha ha	3.8 Irri. Paddy Fic Subjec Wet 88,576 Wet 100 0 0 0 Wet 5.11 Wet 447,395 0 1rri. Paddy Fic Subjec 7,268 4,478	ld Land 1 Area Dry I 3,396 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 Dry I 0 16,980 	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 83 Dry II 5.1 5.0 Dry II 349,956 30,615 - - 15,956 0 26,074 2,361 28,435 - 10 10 10 10 10 10 10 10 10 10	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 1855 Annual 5.1 5.0 Annual 797,351 47,595 5.1 ha ha ha ha 2,824 36,166	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Total % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ t/ha 5. Crop Production - Inrigated Paddy ton - Palawija 2/ t/ha 5. Crop Production - Inrigated Paddy ton - Palawija 2/ t/ha 5. Cropped Area - Paddy Yield 6/ t/ha 1. Land Use - Paddy ha - Others ha 3. Cropping Intensity 7/ - Paddy %	Palawija li Irri: Pada Non-irri Subjec Wet 944 Wet 100 Wet 5.5 Wet 5.192 Palawija Irri: Pad Subjec Wet 0 0 0 0 0 0 0 0 0	dy Field           dy Field           gable La:           1/Area           Dry I           188           Dry I           0           200           Dry I           0           200           Dry I           0           0           0           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188           188 <td>oy maize (c 944 nd 944 Dry II 100 0 100 100 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>imposite         4.5           ha         ha           ha         na           ha         na           1888         1888           1888         1888           1888         1888           1888         1888           1000         200           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000</td> <td>- Irri. 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Paddy Fie Subjec Wet 88,576 Wet 100 0 0 0 0 Wet 447,395 - - - - - - - - - - - - -</td> <td>ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 Dry I 0 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - - - - - - - - - - - - - - - - - - -</td> <td>4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.0 Dry II 349,956 30,615 - - 15,956 0 26,074 2,361 28,435 19 9 2</td> <td>3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 797,351 47,595 5.1 5.1 ha ha ha ha a 33,342 2,824 36,166</td> <td>94% 6% 100%</td>	oy maize (c 944 nd 944 Dry II 100 0 100 100 0 0 0 0 0 0 0 0 0 0 0 0	imposite         4.5           ha         ha           ha         na           ha         na           1888         1888           1888         1888           1888         1888           1888         1888           1000         200           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000         2000           2000	- Irri. 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Pac Subjec Wet 4,17 417 Wet	ldy Field igable Lau <i>t Area</i> Dry 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,350 ad 4,350 Dry II 3,480 435 3,915 Dry II 80 10 90 90 0 0 0 0 0 0 0 0 0 0 0 0 0	4.4 ha ha Annual 7,830 8,265 8,265 4,000 100 100 0 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,0000 4,0000 4,0000 4,0000 4,0000 4,0000 4,0000 4,0000 4,00000	3.8 Irri. Paddy Fie Subjec Wet 88,576 Wet 100 0 0 0 0 Wet 447,395 - - - - - - - - - - - - -	ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 Dry I 0 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - 16,980 - - - - - - - - - - - - - - - - - - -	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 77 85 83 Dry II 5.0 Dry II 349,956 30,615 - - 15,956 0 26,074 2,361 28,435 19 9 2	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 797,351 47,595 5.1 5.1 ha ha ha ha a 33,342 2,824 36,166	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping Intensity 7/ - Irrigated Paddy % - Palawija 2/ % Overall to Subject Area % 4. Crop Yield - Irrigated Paddy t/ha - Palawija 2/ t/ha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ ton 6. Av. Paddy Yield 6/ t/ha Increment (With - Present) 1. Land Use 2. Cropped Area - Paddy ha - Others ha 3. Cropping Intensity 7/ - Paddy % - Others %	Palawija I           Irri. Pać           Non-irri           Subjec           Wet           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           944           945           946           947           948           949           949           949           949           949           949           949           949           949           94	epresented igable La. 1 Area Dry I 1 888 1888 Dry I 1 0 200 200 Dry I 5.0 Dry I 0 0 9400 	oy maize (c 944 944 944 944 944 944 944 944 944 94	imposite         4.5           ha         ha           ha         ha           ha         ha           lass         ha           ha         ha			4,350 hd 4,350 Dry II 3,480 435 3,915 Dry II 10 90 90 00 Dry II 10,140 2,175 d by maize 3,71 0 Dry II 618 435 1,053 Dry II 618 435 1,053 0,053 10 10 10 10 10 10 10 10 10 10	4.4 ha ha Annual 7,830 4355 8,265 Annual 180 100 1900 Annual 1800 1900 Annual 1,035 5,55 5,55 1,175 5,55 1,175 ha Annual 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035	3.8 Irri. Paddy Fic Subjec Subjec Wet 88,576 Wet 100 0 0 0 0 0 0 0 0 0 0 0 0	ld Land 1 Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 0 16,980 - - - - - - - - - - - - - - - - - - -	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 75 85 83 Dry II 5.0 Dry II 5.0 Dry II 5.0 0 0 26,074 2,361 28,435 19 2 21	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 Annual 5.0 Annual 5.1 5.0 Annual 797,351 47,595 5.1 33,342 2,824 36,166	94%6%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha - Palawija 2/ ha - Palawija 2/ % - Palawija 2/ % - Palawija 2/ % 0. Crop Yield - Irrigated Paddy tha - Palawija 2/ tha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ tha 5. Crop Production - Irrigated Paddy ton - Palawija 2/ tha 5. Crop Production - Inrigated Paddy ton - Palawija 2/ ton 6. Av. Paddy Yield 6/ t/ha Increment (With - Present) 1. Land Use - Paddy ha - Others ha 3. Cropping Intensity 7/ - Paddy % - Others % - Others % - Paddy Production ton	Palawija i           Irri: Pad           Non-irri           Subjec           Wet           944           Wet           100           100           Wet           5.5           Wet           5.192           Palawija           Irri: Pad           Subjec           Wet           0           0           0           0           0           0           0           0           0	epresented dy Field gable La. <i>1.1rea</i> Dry I 188 Dry I 0 200 200 200 207 10 0 0 0 0 0 0 0 0 0 0 0 0 0	oy maize (c 944 nd 944 Dry II 1000 00 1000 00 00 00 0100 00 00 0100 00	ha         ha           2000         200           2020         200           2020         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         200           2000         940           10.384         158           999         2557           2000         200           2000         200           2000         200           2000         200           2000 <td>- Irri. Pac Non-irr Subjec Wet 4,350 Wet 100 Wet 5.5 Wet 23,925 - Palawija Irri. Pac Subjec Wet 417 417 Wet 100</td> <td></td> <td>4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 10 90 00 00 07 01 0 07 19,140 2,175 </td> <td>4.4 ha ha Annual 7,830 8,265 8,265 4,000 43,306 43,065 -2,175 -5,5 -5,5 -5,5 -5,5 -6,000 ha ha Annual 1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035</td> <td>3.8 Irri. Paddy Fic Subjec Wet 88,576 Wet 100 0 0 0 88,576 Wet 5.11 Wet 447,395 0 0 1rri. Paddy Fic Subjec 7,268 4,478 14 0 14</td> <td>ld Land 1 Area Dry I 3,396 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 Dry I 0 16,980 </td> <td>4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 83 Dry II 5.1 5.0 Dry II 349,956 30,615 - - - - - - - - - - - - -</td> <td>3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1 ha ha ha 33,342 2,824 36,166 36,333 5 38 312,166</td> <td>94% 6% 100%</td>	- Irri. Pac Non-irr Subjec Wet 4,350 Wet 100 Wet 5.5 Wet 23,925 - Palawija Irri. Pac Subjec Wet 417 417 Wet 100		4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 10 90 00 00 07 01 0 07 19,140 2,175 	4.4 ha ha Annual 7,830 8,265 8,265 4,000 43,306 43,065 -2,175 -5,5 -5,5 -5,5 -5,5 -6,000 ha ha Annual 1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035 -1,035	3.8 Irri. Paddy Fic Subjec Wet 88,576 Wet 100 0 0 0 88,576 Wet 5.11 Wet 447,395 0 0 1rri. Paddy Fic Subjec 7,268 4,478 14 0 14	ld Land 1 Area Dry I 3,396 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 Dry I 0 16,980 	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 83 Dry II 5.1 5.0 Dry II 349,956 30,615 - - - - - - - - - - - - -	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.0 Annual 797,351 47,595 5.1 ha ha ha 33,342 2,824 36,166 36,333 5 38 312,166	94% 6% 100%
6. Av. Paddy Yield 6/ t/ha II. With Project 1. Land Use 2. Cropped Area - Irrigated Paddy ha - Palawija 2/ ha Total ha 3. Cropping Intensity 7/ - Irrigated Paddy tha - Palawija 2/ % 7 total % 0verall to Subject Area % 4. Crop Yield - Inrigated Paddy tha 5. Crop Production - Palawija 2/ tha 5. Crop Production - Palawija 2/ tota 6. Av. Paddy Yield 6/ tha Increment (With - Present) 1. Land Use 2. Cropped Area - Paddy ha - Others ha 3. Cropping Intensity 7/ - Paddy % - Others % Cothers % - Others % - Others % - Others % - Cothers %	Palawija fi           Irri: Pad           Non-irri           Subjec           944           Wet           100           100           Wet           5.5           Wet           5.102           Palawija fi           Irri: Pad           0           0           0           0           0           0           0           0           0           0           0           0           0           0	epresented	oy maize (c 944 nd 944 Dry II 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	imposite         imposite           4.5         4.5           ha         ha           ha         nual           1.888         188           1.888         188           2.87         2.87           2.87         2.87           2.87         2.87           2.89         2.200           2.200         2.200           2.200         2.200           2.200         2.200           2.200         Annual           10.384         940           5.5         5.5           c (hybrid)         ha           ha         1.58           999         999           10.111         1.58           999         1.0			4,350 nd 4,350 Dry II 3,480 435 3,915 Dry II 80 10 90 90 0 Dry II 19,140 2,175 2,175 1,053 10,053 0 Dry II 8 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,053 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,055 10,	4.4 ha ha Annual 7,830 8,265 8,265 8,265 8,265 4,010 100 900 Annual 43,065 2,175 5,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5 1,470 ha ha Annual 1,035 4335 4355 4355 1,470 1,035 1,470 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,471 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,035 1,0	3.8 Irri. Paddy Fie Subjec Wet 88,576 Wet 100 0 0 0 0 Wet 447,395 1rri. Paddy Fie Subjec 7,268 4,478 14 0 114	ld Land t Area Dry I 0 3,396 Dry I 0 4 4 4 4 Dry I 5.0 Dry I 5.0 Dry I 0 16,980 - 16,980 - 16,980 - 16,980 - 0 3,253 3,253 - 0 0 4 4 4 4 4 4 4 4	4.1 88,576 1,974 90,550 Dry II 69,061 6,123 75,184 Dry II 78 7 855 853 Dry II 5.0 Dry II 349,956 30,615 30,615 30,615 26,074 2,361 28,435 19 22,211 -	3.9 ha ha ha Annual 157,637 9,519 167,156 Annual 178 111 189 185 Annual 5.1 5.0 Annual 797,351 47,555 5.1 5.1 5.1 33,342 2,824 36,166 313,55 5 38 312,166	94% 6% 100%

## Table A-5.3.2 Present Agriculture and Agriculture Plans of the Target Schemes: North Sumatra - 7/7

		Deserve	Carrain	- 1-4	. (0/) 1/				Diama		- 1-4					Refferer	nce Data U	sed for	
Irrigation Scheme		Present	Croppin	g Intensity	(%) 1/				Plannec	1 Croppin	g Intensity	y (%) 1/			Past High	Determinati lest Record	ion of Targ of Paddy	et Intensity	A 2/
	Crop	Wet	Dry I	Dry II	Ann	ual	Crop	Wet	Dry I	Dry II	An	nual	Incre	ement	Cropped	Area & Int	tensity 2/	PSD	A 3/
1 Gido Sebua	Paddy	51	-	51	% 102	ha 900	Paddy	100	,	70	% 170	ha 1 501	%	ha 601	Wet 450	Dry I	Dry II 450	Wet	Dry
Irrigated area	Palawija	51			0	,00	Palawija	100		10	10	88	10	88	150		100		
883> 883 ha	Total	51	0	51	102	900	Total	100	0	80	180	1,589	78	689	51%		51%		
2. Batang Gadis	Paddy	100		70	170	9,474	Paddy	100		90	190	10,593	20	1,119	5,575		5,575	4,575	4,575
Irrigated area	Palawija				0		Palawija			5	5	279	5	279					
5575> 5575 ha	Total	100	0	70	170	9,474	Total	100	0	95	195	10,872	25	1,398	100%		100%	82%	82%
<ol> <li>Batang Hung Irrigated area</li> </ol>	Paddy Palawija	100		12	1/2	6,112	Paddy Palawija	100	5	100	200	7,092	28	980	3,546		3,546	3,546	2,566
3546> 3546 ha	Total	100	0	72	172	6 112	Total	100	5	100	205	7 269	33	1 157	100%		100%	100%	72%
4. Blk Sitongkon/N. Suron	Paddy	100		96	196	978	Paddy	100	-	100	200	1,000	4	22	500		500	622	622
Irrigated area	Palawija				0		Palawija		20		20	100	20	100				area:	712 ha
500> 500 ha	Total	100	0	96	196	978	Total	100	20	100	220	1,100	24	122	100%		100%	87%	87%
5. Siborna	Paddy	under 1	rainfed co	ndition	0	0	Paddy	100		50	150	1,425	150	1,425	595		595	595	595
Irrigated area	Palawija	_	-	-	0		Palawija			10	10	95	10	95				area:	725 ha
595> 950 ha	Total	0	0	0	0	202	Total	100	0	60	160	1,520	160	1,520	100%		100%	82%	82%
<ol> <li>SIAIII TUKKA Irrigated area</li> </ol>	Paddy Palawija	100		50	150	383	Paddy Palawija	100		50	150	900	10	517	255		158		
255> 600 ha	Total	100	0	50	150	383	Total	100	0	60	160	960	10	577	100%		62%		
<ol> <li>Badiri Lopian</li> </ol>	Paddy	100		30	130	1,169	Paddy	100	0	70	170	1,528	40	359	10070		0270		
Irrigated area	Palawija				0	, , , , , , , , , , , , , , , , , , ,	Palawija			10	10	90	10	90					[
899> 899 ha	Total	100	0	30	130	1,169	Total	100	0	80	180	1,618	50	449					
8. Pandurungan	Paddy	100		50	150	1,554	Paddy	100		70	170	2,268	20	714	1,034		717		
Irrigated area	Palawija				0		Palawija			10	10	133	10	133					
1034> 1334 ha	Total	100	0	50	150	1,554	Total	100	0	80	180	2,401	30	847	100%		69%		ļ
9. Sihiong	Paddy	0		0	0	0	Paddy	100		50	150	933	150	933					
Irrigated area $0 \rightarrow 622$ ha	Palawija Totol	0	0		0	0	Palawija	100	0	10	10	62	10	62					<b> </b>
10 Aek Silang	Paddy	100	0	0	100	200	Paddy	100	0	50	150	1 890	50	1 690	700			200	0
Irrigated area	Palawija	100		10	100	200	Palawija	100		10	10	1,000	0	1,090	700		20	200	
200> 1260 ha	Total	100	0	10	110	220	Total	100	0	60	160	2,016	50	1,796				100%	0%
11. Sarulla	Paddy	63		14	77	928	Paddy	100		50	150	2,324	73	1,396	764		1,528	764	0
Irrigated area	Palawija				0		Palawija			10	10	155	10	155				area:	764 ha
1214> 1549 ha	Total	63	0	14	77	928	Total	100	0	60	160	2,479	83	1,551	63%		126%	100%	0%
12. Parmiahan Hutapaung	Paddy	100			100	200	Paddy	100		50	150	1,455	50	1,255	900		100	200	0
Irrigated area	Palawija	100		20	20	40	Palawija	100		10	10	97	-10	57				1000/	
200> 970 ha	Total	100	0	20	120	240	Total	100	0	60	160	1,552	40	1,312	020		100	100%	0%
15. Sinamo Irrigated area	Paddy Palawija	100		10	100	100	Paddy Palawija	100		10	130	1,393	50	1,295	930		100	100	0
100> 930 ha	Total	100	0	10	110	110	Total	100	0	60	160	1,488	50	1.378				100%	0%
14. Aek Mandos I	Paddy	100			100	999	Paddy	100		50	150	1,562	50	563	999		200	999	0
Irrigated area	Palawija				0		Palawija			10	10	104	10	104					
999> 1041 ha	Total	100	0	0	100	999	Total	100	0	60	160	1,666	60	667	100%		20%	100%	0%
15. Simangatasi II	Paddy	53			53	800	Paddy	100		50	150	2,271	97	1,471	1,514		100	1,514	0
Irrigated area	Palawija				0		Palawija			10	10	151	10	151					
1514> 1514 ha	Total	53	0	0	53	800	Total	100	0	60	160	2,422	107	1,622	100%		7%	100%	0%
Interview Interv	Paddy Palawija	100		50	150	2,055	Paddy Palawija	100		10	1/0	2,304	20	136	1,515		1,313	1,355	1,555
1355> 1355 ha	Total	100	0	50	150	2.033	Total	100	0	80	180	2.440	30	407				100%	100%
17. Perkotaan	Paddy	84		84	168	5,624	Paddy	100		90	190	6,547	22	923	3,446		3,446	3,446	3,339
Irrigated area	Palawija				0		Palawija			5	5	172	5	172				area: 3	446 ha
3339> 3446 ha	Total	84	0	84	168	5,624	Total	100	0	95	195	6,719	27	1,095	100%		100%	100%	97%
<ol><li>Sungai Balai</li></ol>	Paddy	100		88	188	2,130	Paddy	100		100	200	2,260	12	130	1,130		1,130	1,130	1,130
Irrigated area	Palawija		-		0	A 10-	Palawija		10		10	113	10	113	1000		1000	1000	1007
1130> 1130 ha	1 Otal Paddy	100	0	/12	188	2,130	I otal Paddy	100	10	100	210	2,573	22	243	100%		100%	2 500	1 820
Irrigated area	Palawiia	55		43		1,700	Palawiia	100		10	100	-1,000	10	2,214	1,300		/ 00	2,500 area ?	1,029 500 ha
1829> 2500 ha	Total	55	0	43	98	1,786	Total	100	0	70	170	4,250	72	2,464	82%		43%	100%	73%
20. Serbangan	Paddy	90		86	176	3,602	Paddy	100		100	200	4,088	24	486	1,880		1,871	2,044	2,044
Irrigated area	Palawija				0		Palawija		10		10	204	10	204					
2044> 2044 ha	Total	90	0	86	176	3,602	Total	100	10	100	210	4,292	34	690	92%		92%	100%	100%
21. Silau Bonto	Paddy	100		100	200	40	Paddy	100		70	170	1,161	-30	1,121	300		300	1,917	1,200
Irrigated area	Palawija		-		0		Palawija			10	10	68	10	68				area: 3	117 ha
20> 683 ha 22 Sungai Silau	1 otal Paddy	100	0 0	100 Indition	200	40	Fotal Paddy	100	0	80	180	1,229	-20	1,189	675			62%	38%
22. Suligat Shau Irrigated area	Palawija	under i	anneu co	18	18	35	Palawija	100		10	1/0	38	-8	039	023		140	area: 1	040 ha
200> 376 ha	Total		0	18	18	35	Total	100	0	80	180	677	162	642			vegetabl	60%	100%
23. Padang Mahondang	Paddy	100		41	141	1,024	Paddy	100		50	150	4,357	9	3,333	724		700	2,181	724
Irrigated area	Palawija				0		Palawija			5	5	145	5	145				area: 2	905 ha
724> 2905 ha	Total	100	0	41	141	1,024	Total	100	0	55	155	4,502	14	3,478	100%		97%	75%	25%
24. Simujur	Paddy	100		59	159	1,912	Paddy	100		60	160	3,216	1	1,304	2,010		1,200	1,200	1,200
Irrigated area	Palawija				0		Palawija			10	10	201	10	201					
1200> 2010 ha	Total	100	0	59	159	1,912	Total	100	0	70	170	3,417	11	1,505	1.625		100%	100%	100%
2.3. Purwodadi Irrigated area	Palawiic	100		99	199	5,254	r'addy Palawii-	100	20	100	200	3,270	1	220	1,635		1,635	1,635	1,635
1635> 1635 ha	Total	100	0	90	199	3 254	Total	100	20	100	20	3 598	20	344	100%		100%	100%	100%
26. Pentara	Paddy	100	0	50	150	60	Paddy	100	20	50	150	332	0	272	146		146	10070	
Irrigated area	Palawija			50	50	20	Palawija			10	10	22	-40	2					
40> 221 ha	Total	100	0	100	200	80	Total	100	0	60	160	354	-40	274					

#### Table A-5.3.3 Determination of Target Cropping Intensity: North Sumatra - 1/2

																	Refferer	nce Data U	sed for	
Construction         Construction<	Irrigation Scheme		Present	t Croppin	g Intensity	y (%) 1/				Plannec	l Croppin	g Intensity	y (%) 1/			Past High	Determinati	ion of Targ	et Intensity	r
Second protection         Add         For all organization         Add         For all organization         Constrained protection	3	Crop	Wet	Drv I	Drv II	Anr	nual	Crop	Wet	Drv I	Drv II	Anı	nual	Incre	ment	Cropped	Area & Int	tensity 2/	PSD	A 3/
Integration         Analy         A         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B	27 Simantin Pane Dame	Paddy				%	ha	Paddy	100		50	% 150	ha 1.050	%	ha 1.050	Wet	Dry I	Dry II	Wet	Dry
O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O         O	Irrigated area	Palawija				0	3	Palawija	100		10	10	70	10	70					
21         Numeron Paret III (Paret)         Observe 0         State Paret	0> 700 ha	Total	0	0	0	0	0	) Total					1,120	0	1,120					
Interplet Process         Data         Data <thdata< th="">         Data         Data<td>28. Panambean /Panet T. BH</td><td>Paddy</td><td>96</td><td></td><td>99</td><td>195</td><td>3,355</td><td>Paddy</td><td>100</td><td></td><td>100</td><td>200</td><td>3,444</td><td>5</td><td>89</td><td>1,722</td><td></td><td>1,722</td><td> </td><td></td></thdata<>	28. Panambean /Panet T. BH	Paddy	96		99	195	3,355	Paddy	100		100	200	3,444	5	89	1,722		1,722		
Difference         Difference <thdifference< th="">         Difference         Differen</thdifference<>	Irrigated area	Palawija	0.1		0.4	0.6	10	Palawija	100	20	100	20	344	19	334	1000/		1000		
Discription         Discription         Discription         Discription         Discription         Discription         Discription         Discription         Discription           302	1/22> 1/22 ha	I otal Paddy	96	0	62	196	3,303	Paddy	100	20	100	220	3,788	25	423	2 010		1.619		
100         2001         101         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2001         2	29. K. Homoang / L.Mangara Irrigated area	Palawija	99		29	30	5,238	Palawija	100	30	100	200	4,040	0.4	/00	2,010		982		
Disk Consol         Pailor         Disk Consol         Disk Consol <thdisk consol<="" th=""> <thdisk consol<="" th=""> <thd< td=""><td>2023&gt; 2023 ha</td><td>Total</td><td>100</td><td>0</td><td>91</td><td>191</td><td>3,860</td><td>) Total</td><td>100</td><td>30</td><td>100</td><td>230</td><td>4,653</td><td>39</td><td>793</td><td></td><td></td><td></td><td></td><td></td></thd<></thdisk></thdisk>	2023> 2023 ha	Total	100	0	91	191	3,860	) Total	100	30	100	230	4,653	39	793					
Integrate and Subset	30. Kerasaan	Paddy	70		70	140	5,412	Paddy	100		80	180	7,312	40	1,900	3,229		3,043		
iss0e-accel         iss0e         jub         jub<         jub<         jub<         jub<	Irrigated area	Palawija	2		22	24	929	Palawija			20	20	812	-4	-117			1,423		
11         Abstraction Purposes         Pair A         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>3869&gt; 4062 ha</td> <td>Total</td> <td>72</td> <td>0</td> <td>92</td> <td>164</td> <td>6,341</td> <td>Total</td> <td>100</td> <td>0</td> <td>100</td> <td>200</td> <td>8,124</td> <td>36</td> <td>1,783</td> <td>83%</td> <td></td> <td></td> <td></td> <td></td>	3869> 4062 ha	Total	72	0	92	164	6,341	Total	100	0	100	200	8,124	36	1,783	83%				
Inter-constant         Total         100         4         100         2         2         2         2         1         1           Integration of Integrations         Makey         1         2         9         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1        <	31. J.Kolonisasi/Purbolongg	Paddy	100		97	197	1,999	Paddy	100	20	100	200	2,030	3	31	1,015		1,002	!	
Day Suppose         Day Org         Diff         Diff <thdif< th="">         Diff         Diff</thdif<>	1015 $\rightarrow$ 1015 ha	Palawija Total	100	0	98	198	2 013	Palawija Total	100	20	100	20	204	22	221	23		15		
Integrational Data         Data         Dist         Dist <thdist< th="">         Dist         Dist<td>32. Naga Sompah</td><td>Paddy</td><td>99</td><td>0</td><td>48</td><td>193</td><td>1.492</td><td>Paddy</td><td>100</td><td>20</td><td>100</td><td>200</td><td>2,234</td><td>53</td><td>538</td><td>1.013</td><td></td><td>1.012</td><td></td><td></td></thdist<>	32. Naga Sompah	Paddy	99	0	48	193	1.492	Paddy	100	20	100	200	2,234	53	538	1.013		1.012		
1015-01021a         Tual         100         0         0         000         2.00         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33         2.33	Irrigated area	Palawija	1		50	51	520	Palawija		30		30	305	-21	-215	23		1,015		
33. Rome Nume     Plakey     Image of any set of any	1015> 1015 ha	Total	100	0	98	198	2,012	2 Total	100	30	100	230	2,335	32	323					
Integral and Dom-31 US         Teal         O         O         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <td>33. Risma Duma</td> <td>Paddy</td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>Paddy</td> <td>100</td> <td></td> <td>60</td> <td>160</td> <td>2,088</td> <td>160</td> <td>2,088</td> <td></td> <td></td> <td></td> <td></td> <td></td>	33. Risma Duma	Paddy				0	0	Paddy	100		60	160	2,088	160	2,088					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Irrigated area	Palawija				0		Palawija			10	10	131	10	131					
n inclusion         pace	0> 1305 ha	l otal Boddy	100	0	100	200	20	Doddy	100	0	70	170	2,219	170	2,219					
Li         Set Carage         Table         Obj         Zol         Table         Set Carage         Set Carage<	54. Lae Ordi Irrigated area	Paddy Palawija	100		100	200	30	Paddy	100		10	100	1,440	-40	1,410					
35. Pert Lampace         Palaxyii         35         106         639         9.10         70         70         710         1.06         61.9         6.09         6.09         6.09         6.09         6.09         6.09         6.09         6.09         6.09         6.09         6.09         6.09         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00	15> 900 ha	Total	100	0	100	200	30	Total	100	0	70	170	1.530	-30	1.500					
Integral arma         Total	35. Parit Lompaten	Paddy	53		53	106	650	Paddy	100		70	170	2,110	64	1,460	619		619	619	0
619-1241 lbs       Teal       53       00       53       100       630       100       100       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100*       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       1	Irrigated area	Palawija				0		Palawija			10	10	124	10	124					
36         Bader Sidors         Pider join         100         88         180         4,42         Pider join         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <td>619&gt; 1241 ha</td> <td>Total</td> <td>53</td> <td>0</td> <td>53</td> <td>106</td> <td>650</td> <td>) Total</td> <td>100</td> <td>0</td> <td>80</td> <td>180</td> <td>2,234</td> <td>74</td> <td>1,584</td> <td>100%</td> <td></td> <td>100%</td> <td>100%</td> <td>100%</td>	619> 1241 ha	Total	53	0	53	106	650	) Total	100	0	80	180	2,234	74	1,584	100%		100%	100%	100%
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	36. Bandar Sidoras	Paddy	100		80	180	4,432	Paddy	100		80	180	6,223	0	1,791					
2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000         2000 <th< td=""><td>Irrigated area</td><td>Palawija</td><td>100</td><td>0</td><td>80</td><td>0</td><td>4 422</td><td>Palawija</td><td>100</td><td>0</td><td>10</td><td>10</td><td>346</td><td>10</td><td>2 127</td><td></td><td></td><td></td><td>  </td><td></td></th<>	Irrigated area	Palawija	100	0	80	0	4 422	Palawija	100	0	10	10	346	10	2 127					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2402> 343 / na 37 Namu Rambe	Paddy	100	0	80	180	4,452	Paddy	100	0	90	190	0,309	10	2,137	1.036				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Irrigated area	Palawija	100	14	14	28	286	Palawija	100		20	20	207	-8	-79	1,050	161	161		
38. Se fieldou prigutat area g070 → 5076 ha fraid       790       790       790       790       790       Palavija 100       901       991       924       321       1.000       4.0.20       4.0.20       4.0.20       4.0.20       5         970       Inagua 1rigatot area 1150 → 1000 ha 1rotat       670       790       791       13.238       795       2.55       2.55       5.95       1.05       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.150       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050       1.050	1036> 1036 ha	Total	100	14	14	128	1,322	2 Total	100	0	80	180	1,865	52	543	100%	16%	16%		
Intrajent area         Palavia         Palavia         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S<         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S	38. Sei Belutu	Paddy	79		79	158	8,040	Paddy	100		90	190	9,644	32	1,604	4,020	)	4,020		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Irrigated area	Palawija				0		Palawija			5	5	254	5	254					
Magual         Prindy         67         67         134         1.354 Paddy         100         70         70         70         3.230         36         1.080         1.150           1150 ->>1900 ha         Total         67         0         67         135         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         7         5         5         3         5         5         7         5         5         75         7         5         5         7         5         7         5         7         5         7         7         5         5         7         7         5         7         7         5         7         7         5         7         7         5         3         7         100         10         10         10         10         10         10         10         10	5076> 5076 ha	Total	79	0	79	158	8,040	) Total	100	0	95	195	9,898	37	1,858	79%		79%	ļ!	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	39. Langau	Paddy	67		67	134	1,534	Paddy	100		70	170	3,230	36	1,696	1,150		1,150		
40. Mcdin Krib         Pady         100         73         173         5,086         Pady         100         100         5,668         117         582         1           243         -2983         Total         100         0         000         5,886         Total         100         150         3,666         10         373         -         -           41. Ramus Panjang         Padxy         under rainfed condition         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         5         5         3.579         100%         0         100         10         10         10         10         10         0         100         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	1150> 1900 ha	Falawija Total	67	0	67	134	1 534	Falawija Total	100	0	75	175	3 325	41	1 791	100%		100%		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	40. Medan Krio	Paddy	100		73	173	5,086	Paddy	100	0	90	190	5,668	17	582	10070		10070		
2943 ha         Total         Total         Iol         O         210         6.264         10         376         I         I         I           41. Ratus Paralle         Palawija         0         0         Palawija         5         5         115         5.75         115         5.75         115         5.75         115         5.75         100%         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Irrigated area	Palawija			27	27	800	) Palawija		10	10	20	596	-7	-204					
41. Ratua Panjang Imrigated area       Paddy [wij]       0       0       Padady Palawija       100       50       150       3,464       150       3,464       2,309          2309> 2309 ha       Total       0       0       0       Total       100       0       55       5       115       5       3,579       100%           42. Pckan Kamis       Padavij       88       0       99       188       1,722       Total       100       0       100       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       138	2943> 2983 ha	Total	100	0	100	200	5,886	5 Total	100	10	100	210	6,264	10	378					
	41. Rantau Panjang	Paddy	under 1	rainfed co	ndition	0	0	Paddy	100		50	150	3,464	150	3,464	2,309				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Irrigated area	Palawija				0		Palawija	100		5	5	115	5	115	1000/				
Par. Production of the part of	2309> 2309 ha	l otal Boddy	0	0	0	179	1.620	Doddy	100	0	22	155	3,579	155	3,579	100%		000		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	42. Fekali Kallis	Palawija	09		10	1/8	92	Palawija	100		10	10	1,980	2	18	920		900		
43. Secanggang Irrigated area       Paday       98       1.290       Padawija       100       90       190       2.614       92       1.324       1.290       1.150         131 95176 ha 131 95176 ha Irrigated area       Padawija       100       100       200       200       701       100       100       200       2.72       102       1.462       98%       97%         44. Paya Lobang       Paday       100       70       70       1.763       Total       100       100       200       2.72       102       1.462       98%       97%         45. Namu Stra-sira Kiri       Paday       100       200       1.763       Total       100       100       100       100       100       100%       100%       100%         1350       Total       100       200       1.35       510       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       771       1.350       <	920> 1100 ha	Total	89	0	99	188	1,722	2 Total	100	0	90	190	2,090	2	368	100%		98%		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	43. Secanggang	Paddy	98			98	1,290	Paddy	100		90	190	2,614	92	1,324	1,290		1,150		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Irrigated area	Palawija				0		Palawija			10	10	138	10	138					
44.       Paya Lobang       Paday       100       170       170       170       170       1263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263       1.263	1319> 1376 ha	Total	98	0	0	98	1,290	) Total	100	0	100	200	2,752	102	1,462	98%		97%		
Image area         Palawija         0         Palawija         10         10         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         156         10         100         100         1263         100         10         103         10         10         103         0         771         100         100         100         103         100         10         135         0         0         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         <	44. Paya Lobang	Paddy	100		70	170	1,263	Paddy	100	10	100	200	3,116	30	1,853	1,263		1,263	!	
Loss       Loss <thloss< th="">       Loss       Loss</thloss<>	1263> 1558 ha	raiawija Total	100	0	70	170	1 263	raiaWija Total	100	10	100	210	3 272	10	2 000	100%		100%		
Irrigated area         Palawija         10         135         Palawija         10         135         135         135         135         135         135         135         135         135         135         135         136         135         135         136         135         136         135         136         135         136         136         135         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         137         136         137         137         137         137         137         137         137         137         137         137         137         137         137         137         137         137         137         137         137         137         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133         133	45 Namu Sira-sira Kiri	Paddy	100	0	20	120	1,620	Paddy	100	10	70	170	2,295	50	2,009	1,350		771		
1350> 1350 ha         Total         100         0         30         130         1,755         Total         100         0         80         180         2,430         50         675         100%         57%         1           46         Namu Sira-sira Kanan         Palawija         10         10         395         Palawija         5         5         198         -5         -197         1         1         1         1         1         1         1         395         Palawija         5         5         198         -5         -197         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Irrigated area	Palawija			10	10	135	Palawija			10	10	135	0	0	,				
46       Namu Sira-sira Kanan       Paddy       100       20       120       4,744       Paddy       100       70       170       6,720       50       1,976       3,953       2,257       1         3953      > 3953 ha       Total       100       0       395       Palawija       5       5       198       -5       -197       1       100       57%       1         47.       Bak Korah II       Paddy       86       91       177       3,053       Padavija       10       100       200       3,446       23       393       1,995       1,903       1,255       1,400         1723      > 1723 ha       Total       86       91       177       3,053       Total       100       100       101       172       10       172       area: 1430 ha         1723      > 1723 ha       Total       86       91       177       3,053       Total       100       100       200       2,000       50       672       1,013       1013       988       885         Irrigated area       Paday       100       50       150       1,328       Paday       100       20       200       20       200 <td>1350&gt; 1350 ha</td> <td>Total</td> <td>100</td> <td>0</td> <td>30</td> <td>130</td> <td>1,755</td> <td>Total</td> <td>100</td> <td>0</td> <td>80</td> <td>180</td> <td>2,430</td> <td>50</td> <td>675</td> <td>100%</td> <td></td> <td>57%</td> <td></td> <td></td>	1350> 1350 ha	Total	100	0	30	130	1,755	Total	100	0	80	180	2,430	50	675	100%		57%		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	46 Namu Sira-sira Kanan	Paddy	100		20	120	4,744	Paddy	100		70	170	6,720	50	1,976	3,953		2,257		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Irrigated area	Palawija			10	10	395	Palawija			5	5	198	-5	-197					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	3953> 3953 ha	I otal Daddy	100	0	30	130	5,139	Total	100	0	75	175	6,918	45	1,779	100%	+ +	57%	1.255	1 400
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Irrigated area	Palawiia	80		91	1//	3,033	Palawiia	100	10	100	200	3,440	23	393	1,995	+	1,903	1,200 area: 1	430 ha
48. Sijambi       Paddy       100       50       150       1,328       Paddy       100       100       200       2,000       50       672       1,013       1013       988       885         Irrigated area       Palawija       0       Palawija       20       20       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200       200<	1723> 1723 ha	Total	86	0	91	177	3 053	Total	100	10	100	210	3 618	33	565	100%		95%	88%	98%
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	48. Sijambi	Paddy	100		50	150	1,328	Paddy	100		100	200	2,000	50	672	1,013		1013	988	885
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Irrigated area	Palawija				0		Palawija		20		20	200	20	200					
49. Rambung Mera       Paddy       100       83       183       1,730       Paddy       100       100       200       1,888       17       158       944       940         Irrigated area       Palawija       9       9       89       Palawija       20       20       188       11       99       344       940         944> 944 ha       Total       100       0       92       192       1,819       Total       100       20       100       220       2,076       28       257       100%       0       50.         50. Paya Sordang       Paddy       90       72       162       6,424       Padwija       10       10       435       106       3,563       3,563       3,562       2,862         Irrigated area       Palawija       0       Palawija       100       0       90       190       8,265       28       1,841       100%       100%       80%         3979> 4350 ha       Total       90       0       72       162       6,424       Total       100       0       90       100%       80%       80%       100%       100%       100%       80%       80%       80%       80% <td>885&gt; 1000 ha</td> <td>Total</td> <td>100</td> <td>0</td> <td>50</td> <td>150</td> <td>1,328</td> <td>Total</td> <td>100</td> <td>20</td> <td>100</td> <td>220</td> <td>2,200</td> <td>70</td> <td>872</td> <td></td> <td></td> <td></td> <td>100%</td> <td>90%</td>	885> 1000 ha	Total	100	0	50	150	1,328	Total	100	20	100	220	2,200	70	872				100%	90%
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	49. Rambung Mera	Paddy	100		83	183	1,730	Paddy	100	-	100	200	1,888	17	158	944		940		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Irrigated area	Palawija Totel	100	0	9	102	1 010	Palawija	100	20	100	20	2 076	11	99	100%		344		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	50 Paya Sordang	Paddy	90	0	92	192	6 424	Paddy	100	20	100	180	2,076	28 18	1 406	3 563		3563	3 562	2 862
3979> 4350 ha         Total         90         0         72         162         6,424         Total         100         90         190         8,265         28         1,841         100%         100%         80%           Overall         Paddy         86         0         59         145         105,552         Paddy         100         78         178         157,637         33         52,085           Irrigated area         Palawija         0.1         0.2         5         6         4,005         Palawija         4         7         11         9,519         5         5,514           72620>         88576 ha         Total         86         0.2         64         150         109,557         Total         100         4         85         189         167,156         39         57,599	Irrigated area	Palawija	20		12	0	0,729	Palawija	100		10	100	435	10	435	5,505		5505	area: 3	562 ha
Overall         Paddy         86         0         59         145         105,552         Paddy         100         78         178         157,637         33         52,085           Irrigated area         Palawija         0.1         0.2         5         6         4,005         Palawija         4         7         11         9,519         5         5,514           72620> 88576 ha         Total         86         0.2         64         150         109,557         Total         100         4         85         189         167,156         39         57,599	3979> 4350 ha	Total	90	0	72	162	6,424	Total	100	0	90	190	8,265	28	1,841	100%		100%	100%	80%
Irrigated area         Palawija         0.1         0.2         5         6         4,005         Palawija         4         7         11         9,519         5         5,514           72620> 88576 ha         Total         86         0.2         64         150         109,557         Total         100         4         85         189         167,156         39         57,599	Overall	Paddy	86	0	59	145	105,552	Paddy	100		78	178	157,637	33	52,085					
[ 72620>88776 ha [Total ] 86 0.2] 64 150 [109.557] Total 100 4 85 189 [167,156 39] 57,599	Irrigated area	Palawija	0.1	0.2	5	6	4,005	Palawija		4	7	11	9,519	5	5,514					
	72620> 88576 ha	Total	86	0.2	64	150	109,557	Total	100	4	85	189	167,156	39	57,599	witho Sta	Taarr (	t in the		

#### Table A-5.3.3 Determination of Target Cropping Intensity: North Sumatra - 2/2

# Table A-5.3.4 Estimated Net Farm Income per Ha under With Project Condition: North Sumatra - 1/2

					With-Proi	ect Status			Before Project	Incremental
		Cropr	oing Intensit	v & Crop	ned Area	Net Retu	rn per Ha	Net Return	Net Return	Net Return
Irrigation Scheme/	Crop	Wet	Season	Drv	Season	(Rp. n	nillion)	per	per	per
Before Priect Land Use	crop	Intensity	Cronned	Intensity	Cronned	Wet	Drv	Ha of Farm	Ha of Farm	Ha of Farm
		(%)	Area (ha)	(%)	Area (ha)	Season	Season	(Rp 000)	(Rp, 000)	(Rp 000)
1. Gido Sebua	Irrigated Paddy	100	1.00	70	0.70	3 45	3 45	(11.000)	(11.000)	(11): 000)
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6.174	3.040	3.134
2. Batang Gadis	Irrigated Paddy	100	1.00	90	0.90	3.93	3.93	- 7		- , -
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	7 622	5.151	2 471
3. Batang Ilung	Irrigated Paddy	100	1.00	100	1.00	4.42	4.42			
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	8,995	6,414	2,581
4. Blk Sitongkon/Napa Suro	Irrigated Paddy	100	1.00	100	1.00	3.93	3.93	- 1		<u> </u>
Irrigated Field 1 ha	Palawija (maize)			20	0.20		3.09	8,478	5,939	2,539
5. Siborna	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45	,	,	,
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	1,750	3,734
<ol> <li>Siaili Tukka</li> </ol>	Irrigated Paddy	100	1.00	50	0.50	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,204	4,545	1,659
<ol> <li>Badiri Lopian</li> </ol>	Irrigated Paddy	100	1.00	70	0.70	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,990	3,939	3,051
8. Pandurungan	Irrigated Paddy	100	1.00	70	0.70	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,990	4,545	2,445
9. Sihiong	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45			
Rainfed Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	1,750	3,734
10. Aek Silang	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45	,	,	,
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	2,754	2,730
11. Sarulla	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45	,	,	,
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	2,626	2,858
12. Parmiahan Hutapaung	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45	,	,	,
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	2,938	2,546
13. Sinamo	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45			
Rainfed Field 1 ha	Paddy (rainfed)			10	0.10		3.09	5,484	1,934	3,550
14. Aek Mandos I	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	2,570	2,914
15. Simangatasi II	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,484	2,185	3,299
16. Bulung Ihit	Irrigated Paddy	100	1.00	70	0.70	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,990	4,545	2,445
17. Perkotaan	Irrigated Paddy	100	1.00	90	0.90	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	7,622	5,090	2,531
18. Sungai Balai	Irrigated Paddy	100	1.00	100	1.00	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	8,169	5,696	2,473
19. Panca Arga	Irrigated Paddy	100	1.00	60	0.60	3.45	3.45			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	5,829	3,306	2,523
20. Serbangan	Irrigated Paddy	100	1.00	100	1.00	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	8,169	5,333	2,836
21. Silau Bonto	Irrigated Paddy	100	1.00	70	0.70	3.45	3.45			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,174	5,140	1,034
22. Sungai Silau	Irrigated Paddy	100	1.00	70	0.70	3.45	3.45			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,174	2,081	4,093
23. Padang Mahondang	Irrigated Paddy	100	1.00	50	0.50	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	6,050	4,084	1,966
24. Simujur	Irrigated Paddy	100	1.00	60	0.60	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,597	4,818	1,779
25. Purwodadi	Irrigated Paddy	100	1.00	100	1.00	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			20	0.20		3.09	8,478	6,030	2,448
26. Pentara	Irrigated Paddy	100	1.00	50	0.50	3.93	3.93			
Irrigated Field 1 ha	Paddy (rainfed)			10	0.10		3.09	6,204	4,545	1,659
27. Simantin Pane Dame	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45			
Upland Field 1 ha	Paddy (rainfed)			10	0.10		3.09	5,484	1,840	3,644
28. Panambean / Panet Tonga	Irrigated Paddy	100	1.00	100	1.00	4.42	4.42			
Irrigated Field 1 ha	Palawija (maize)			20	0.20		3.09	9,458	6,739	2,719

# Table A-5.3.4 Estimated Net Farm Income per Ha under With Project Condition: North Sumatra - 2/2

					With-Proi	ect Status			Before Project	Incremental
		Crop	ning Intensit	v & Crop	ned Area	Net Petu	rn nar Ha	Net Peturn	Net Peturn	Net Peturn
Irrigation Scheme/	Crop	Wet	Season	Dry	Season	(Rn m	nillion)	Der	net Ketulli per	Der
Before Priect Land Lise	Стор	Intensity	Cronned	Intensity	Cropped	Wet	Dry	Ha of Farm	Ha of Farm	Ha of Farm
Defote I fjeet Land Ose		(%)	Area (ha)	(%)	Area (ha)	Season	Season	$(\mathbf{Pp}, 000)$	$(\mathbf{Pp}, 000)$	$(\mathbf{Pp}, 000)$
20 Paia Hambang / T. Mana	Irrigated Daddy	(70)	Aica (iia)	(70)	Aica (iia)	4.42	2 02	(Rp. 000)	(Kp. 000)	(Kp. 000)
29. Kaja Hollibalig / 1. Malig	Balawija (maiza)	100	1.00	100	0.20	4.42	2.00	0 277	5 9 1 6	2 421
20 Veressen	Falawija (Illaize)	100	1.00	30	0.30	4.42	5.09	9,277	5,840	5,451
50. Kerasaan	Dela ilia (maine)	100	1.00	80	0.80	4.42	4.42	0.574	5 272	2 202
Infigated Field I ha	Palawija (maize)	100	1.00	20	0.20	4.42	3.09	8,574	5,272	3,302
31. J. Kolonisasi/Purbolongg	Dela iia (maine)	100	1.00	100	1.00	4.42	4.42	0.459	6.015	2 ( 12
Infigated Field T ha	Palawija (maize)	100	1.00	20	0.20	4.42	5.09	9,438	0,813	2,043
32. Naga Sompan	De 11 (acia Cel)	100	1.00	100	1.00	4.42	4.42	0.7/7	5 504	4 172
Irrigated Field I ha	Paddy (rainfed)	100	1.00	30	0.30		3.09	9,/6/	5,594	4,1/3
33. Risma Duma	Irrigated Paddy	100	1.00	60	0.60	3.45	3.45			1.050
Rainfed Field I ha	Palawija (maize)			10	0.10		3.09	5,829	1,750	4,079
34. Lae Ordi	Irrigated Paddy	100	1.00	60	0.60	3.45	3.45			
Upland Field 1 ha	Paddy (rainfed)			10	0.10		3.09	5,829	1,472	4,357
35. Parit Lompaten	Irrigated Paddy	100	1.00	70	0.70	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	6,990	4,034	2,956
<ol><li>Bandar Sidoras</li></ol>	Irrigated Paddy	100	1.00	80	0.80	4.42	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	7,873	5,874	1,999
37. Namu Rambe	Irrigated Paddy	100	1.00	60	0.60	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			20	0.20		3.09	6,906	3,545	3,361
38. Sei Belutu	Irrigated Paddy	100	1.00	90	0.90	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	7,622	4,792	2,830
39. Langau	Irrigated Paddy	100	1.00	70	0.70	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	6,836	4,330	2,506
40. Medan Krio	Irrigated Paddy	100	1.00	90	0.90	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	7,776	5,739	2,037
41. Rantau Panjang	Irrigated Paddy	100	1.00	50	0.50	3.45	3.45			
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	5,330	1,750	3,580
42. Pekan Kamis	Irrigated Paddy	100	1.00	80	0.80	4.42	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	7,873	6,144	1,729
43. Secanggang	Irrigated Paddy	100	1.00	90	0.90	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	7,776	3,004	4,772
44. Paya Lobang	Irrigated Paddy	100	1.00	100	1.00	3.93	3.93			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	8,169	5,445	2,724
45. Namu Sira-sira Kiri	Irrigated Paddy	100	1.00	70	0.70	4.42	4.42			
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	7.823	4.324	3,499
46. Namu Sira-sira Kanan	Irrigated Paddy	100	1.00	70	0.70	4.42	4.42	,		,
Irrigated Field 1 ha	Palawija (maize)			5	0.05		3.09	7 669	4 324	3 345
47. Bah Korah II	Irrigated Paddy	100	1.00	100	1.00	3 93	4 42	,,	.,	-,
Irrigated Field 1 ha	Palawija (maize)			10	0.10		3.09	8 659	6 1 1 6	2 543
48 Sijambi	Irrigated Paddy	100	1.00	100	1.00	3 93	3 45	0,007	0,110	2,010
Irrigated Field 1 ha	Palawija (maize)	100	1.00	20	0.20	5.95	3.09	7 998	4 3 1 5	3 683
49 Rambung Mera	Irrigated Paddy	100	1.00	100	1.00	4 42	4.42	1,770	1,515	5,005
Irrigated Field 1 ha	Palawija (maize)	100	1.00	20	0.20	1, 12	3.09	9.458	6.479	2 979
50 Pava Sordang	I alawija (maize)	100	1.00	20	0.20	4.42	4.42	2,450	0,477	2,777
Irrigated Eigld 1 ha	Paddy (rainfad)	100	1.00	10	0.80	4.42	3.00	8 765	5 500	7676
Ingated Field T lla	r addy (ranned)			10	0.10		5.09	7 241	J,J09 A 550	2,070
	ad Field							5 500	4,338	2,183
Kalina Lu-loo	d Field							5,599	1,011	3,788
Auoraaa	Overall							3,037	1,030	4,001
Average	Overail							/,1/0	4,278	2,892

	District	Irrigation Scheme in	Subject Area	Agri. Extension		Ins	stitutiona	al Capac	ity Build	ing		Total
		Study Area	(ha)	Strengthen	1	2	3	4	5	6	Sub-total	Cost
1	Nias	Gido Sebua	883	154	10	35	9	18	65	18	154	309
2	Mandaling Natal	Batang Gadis	5,575	976	10	223	56	112	464	112	976	1,951
3	Tapanuli Selatan	Batang Ilung	3,546	621	0	142	35	71	302	71	621	1,241
4		Bik Sitonekon / N.S.	500	88	0	0	5	10	63	10	88	176
5		Siboma	950	166	10	0	10	19	108	19	166	332
6	Tapanuli Tengah	Siaili Tukka	600	105	10	0	6	12	65	12	105	210
7		Badiri Lopian	899	157	0	36	9	18	76	18	157	314
8		Pandurungan	1,334	233	0	53	13	27	114	27	234	467
9		Sihiong	779	136	0	0	8	16	97	16	136	272
10	Tapanuli Utara	Aek Silang	1,500	263	10	0	15	30	178	30	263	526
11	-	Sallura	1,692	296	0	0	17	34	211	34	296	592
12		Parmiahan Hatapung	1,000	175	0	0	10	20	125	20	175	350
13		Sinamo	930	163	0	0	9	19	116	19	163	326
14	Toba Samosir	Aek Mandosi I	1,059	186	0	42	11	21	90	21	185	371
15		Simangatasi II	1,514	265	10	61	15	30	119	30	265	530
16	Labuhan Batu	Bulung Ihit	1,355	237	10	54	14	27	104	27	236	474
17	Asahan	Perkotaan	3,446	603	10	138	34	69	283	69	603	1,206
18		Sungai Balai	1,130	198	0	45	11	23	96	23	198	396
19		Panca Arga	2,500	438	0	100	25	50	213	50	438	876
20		Serbangan	2,044	358	0	82	20	41	175	41	358	716
21		Silau Bonto	967	169	0	0	10	19	121	19	170	339
22		Sungai Silau	452	79	0	18	5	9	38	9	79	158
23		Padang Mahondang	2,905	508	0	116	29	58	247	58	509	1,017
24		Simujur	2,000	352	0	80	20	40	171	40	351	703
25		Purwodari	1,635	286	0	65	16	33	139	33	286	572
26	Simalunggun	Pentara	298	52	0	12	3	6	25	6	52	104
27		Simantin Pane Dame	1,000	175	10	0	10	20	115	20	175	350
28		Panambean / P.T. / B.H	1,722	301	0	69	17	34	146	34	301	602
29		Raja Hombang / T.M	2,023	354	0	81	20	40	172	40	354	708
30		Kerasaan	4,144	725	0	166	41	83	353	83	725	1,450
31		Javacolonisasi / Pur.	1,015	178	0	41	10	20	87	20	179	356
32		Naga Sompah	1,015	178	0	0	10	20	127	20	178	356
33	Dairi	Risma Duma	1,522	266	10	0	15	30	180	30	266	532
34		Lae Ordi	1,200	210	0	0	12	24	150	24	210	420
35	Karo	Parit Lompaten	1,242	217	10	50	12	25	95	25	217	434
36	Deli Serdang	Bandar Sidoras	3,457	605	10	0	35	69	423	69	605	1,210
37	-	Nam Rambe	1,036	181	0	41	10	21	88	21	181	362
38		Sei Belutu	5,076	888	0	0	51	102	635	102	889	1,777
39		Langau	1,900	333	0	0	19	38	238	38	333	666
40		Medan Krio	3,000	525	0	0	30	60	375	60	525	1,050
41		Rantau Panjang	2,309	404	0	0	23	46	289	46	404	808
42		Pekan Kamis	1,100	193	0	0	11	22	138	22	193	386
43	Langkat	Secanggang	1,400	245	10	56	14	28	109	28	245	490
44	D. Serdang/T. Tingg	i Paya Lombang	1,558	273	10	0	16	31	186	31	274	546
45	Langkat/Binjai	Nam Sira-Sira Kiri	1,350	236	0	54	14	27	114	27	236	472
46	Langkat/Binjai	Nam Sira-Sira Kanan	3,953	692	10	158	40	79	325	79	691	1,383
47	Simalunggun/Siantar	Bah Korah II	1,723	302	10	0	17	34	205	34	301	603
48	Asahan/Tamjun Bala	i Sijambi	1,008	177	10	0	10	20	116	20	176	353
49	Siantar/Simalunggun	Rambung Mera	944	165	0	38	9	19	81	19	165	330
50	T. Selatan/M. Nata	l Paya Sordang	4,350	761	0	174	44	87	369	87	761	1,522
		Total	90540	15.846	18	2.230	905	1.811	8.919	1.811	15.846	31.692

(Unit : million Rp.)

Renarks: 1; District/municipal government capacity building plan, 2; WUA strengthening plan, 3; WUA federation setting-up plan 4; WUA establishment acceleration plan, 5; On-the-job O&M training, 6; WUA management guidance

											(Unit: million Rp.)
		Subject		Initi	Total Initial	Runn	ing Cost				
	Irrigation Scheme	Area (ha)	Irrigation System Rehabilitation	Institutional Capacity Building	Consulting Service	Admini- stration	Physical Contingency	Total	Investment Cost (Financial Price)	Incremental O&M Cost	Replacement (every 10 years)
1.	Gido Sebua	883	15,444	278	1,087	368	1,572	18,749	19,538	88	1,254
2.	Batang Gadis	5,575	91,124	1,756	6,437	2,178	9,288	110,783	115,664	558	2,566
3.	Batang Ilung	3,546	64,907	1,117	4,575	1,548	6,602	78,750	82,216	355	1,558
4.	Blk Sitongkon/Napa Suron	500	20,885	158	1.455	492	2.104	25.094	26,151	50	1.254
5	Siborna	950	33.062	299	2 309	781	3 336	39 789	41 498	95	1 254
6	Siaili Tukka	600	12 280	189	862	291	1 247	14 869	15 481	60	1 254
7	Badiri Lonian	899	18 339	283	1 288	436	1,217	22 208	23 149	90	1,254
8	Pandurungan	1 3 3 4	28 502	420	2 002	677	2 892	34 495	35 982	133	1,254
0.	Sibiong	770	19.608	245	1 373	465	1 985	23 677	24.678	78	1,254
10	Aek Silang	1 500	21 281	473	1,575	510	2 175	25,077	24,078	150	1,254
10.	Samila	1,500	15 702	533	1,500	380	1.624	10 363	27,002	150	1,254
12	Barmiahan Hutanaung	1,002	21 782	215	1,124	517	2 210	26 354	20,178	100	1,254
12.		1,000	21,783	313	1,329	517	2,210	20,334	27,478	100	1,234
15.	Sinamo	930	19,016	293	1,330	452	1,931	23,027	24,004	93	1,254
14.	Aek Mandos I	1,059	12,789	334	907	307	1,312	15,650	16,308	106	1,254
15.	Simangatasi II	1,514	17,991	4//	1,278	433	1,84/	22,025	22,973	151	1,254
16.	Bulung Ihit	1,355	13,685	427	976	330	1,411	16,829	17,546	136	1,254
17.	Perkotaan	3,446	80,979	1,085	5,686	1,924	8,206	97,881	102,180	345	1,558
18.	Sungai Balai	1,130	20,800	356	1,464	495	2,116	25,231	26,309	113	1,254
19.	Panca Arga	2,500	20,179	788	1,453	491	2,097	25,007	26,101	250	1,558
20.	Serbangan	2,044	34,068	644	2,404	813	3,471	41,401	43,199	204	1,558
21.	Silau Bonto	967	25,781	305	1,805	611	2,609	31,111	32,442	97	1,254
22.	Sungai Silau	452	26,238	142	1,825	617	2,638	31,461	32,795	45	1,254
23.	Padang Mahondang	2,905	40,405	915	2,863	969	4,132	49,284	51,448	291	1,558
24.	Simujur	2,010	32,676	633	2,307	780	3,331	39,727	41,452	201	1,558
25.	Purwodadi	1,635	41,625	515	2,918	987	4,214	50,260	52,443	164	1,254
26.	Pentara	298	11,445	94	797	270	1,154	13,759	14,316	30	1,254
27.	Simantin Pane Dame	1,000	13,874	315	981	332	1,419	16,921	17,633	100	1,254
28.	Panambean / Panet Tongah BK	1,722	37,911	542	2,663	901	3,845	45,863	47,857	172	1,254
29.	Raja Hombang / T. Mangaraja	2,023	52,754	637	3,698	1,251	5,339	63,679	66,450	202	1,558
30.	Kerasaan	4,144	102,024	1,305	7,160	2,423	10,333	123,245	128,669	414	1,558
31.	Javacolonisasi/Purbogondo	1,015	25,630	320	1,796	608	2,595	30,948	32,273	102	1,254
32.	Naga Sompah	1,015	29,525	320	2,066	699	2,984	35,594	37,122	102	1,254
33.	Risma Duma	1,522	41,904	479	2,935	993	4,238	50,549	52,743	152	1,254
34.	Lae Ordi	1,200	30,708	378	2,152	728	3,109	37,075	38,672	120	1,254
35.	Parit Lompaten	1,242	45,330	391	3,166	1,071	4,572	54,530	56,890	124	1,254
36.	Bandar Sidoras	3,457	82,100	1,089	5,764	1,950	8,319	99,222	103,580	346	1,558
37.	Namu Rambe	1,036	29,355	326	2,054	695	2,968	35,399	36,919	104	1,254
38.	Sei Belutu	5,076	60,480	1,599	4,302	1,456	6,208	74,044	77,308	508	2,566
39.	Langau	1,900	26,991	599	1,911	647	2,759	32,906	34,338	190	1,254
40.	Medan Krio	3,000	48,398	945	3,419	1,157	4,934	58,853	61,437	300	1,558
41.	Rantau Panjang	2,309	47,486	727	3,340	1,130	4,821	57,504	60,013	231	1,558
42.	Pekan Kamis	1.100	19,254	347	1.356	459	1.960	23.376	24.372	110	1.254
43.	Secanggang	1,400	50.324	441	3,516	1,189	5,077	60,547	63,174	140	1.254
44	Pava Lobang	1.558	23 292	491	1.647	557	2.378	28,365	29,590	156	1 254
45	Namu Sira-sira Kiri	1 350	31 556	425	2 214	749	3 198	38 143	39 790	135	1 254
46	Namu Sira-sira Kanan	3 952	73 050	1 245	5 140	1 742	7 430	88.676	97 533	305	1,254
Δ7	Bah Korah II	1 723	37 300	5/12	2 628	1,742	3 70/	45 253	47 220	172	1,556
18	Sijambi	1,723	35,399	210	2,020	Q/2	3,774	42 040	1/,220	1/2	1,234
+0. /10	Rambung Mera	0//	33,080	210	2,492	045 777	3,000	42,740	44,788	04	1,234
-+2. 50	Pava Sordang	/ 250	52,070	1 370	2,290	1 600	5,517	\$1,557	41,230 85 A7A	/25	1,234
50.	T-4-1	-+,550	1 805 540	1,570	107.020	1,009	192,420	2 107 721	2 292 512		1,556
Î.	1 otai	90,550	1,805,760	28,523	127,030	42,980	185,428	2,187,721	2,282,713	9,055	69,276

#### Table A-5.5.1 Economic Project Costs of Rehabiliation Plans : North Sumatra

Source: JICA Study Team for the Study on Comprehensive Recovery Program of Irrigation Agriculture

			Paddy									Maize											
Items	Unit	Unit	Unit		Rainfeo	l Paddy						Irrigate	d Paddy					Со	mposit		Hyb	orid	
items	Oint	Thee	O'tv	Value	O'tv	Value	O'ty	Value	O'tv	Value	O'tv	Value	O'tv	Value	O'ty	Value	O'tv	Value	O'ty	Value	O'ty	Value	
		(Rp000)	213	(Rp000)	29	(Rp000)	Q (j	(Rp000)	्राप्	(Rp000)	213	(Rp000)	्राप्	(Rp000)	29	(Rp000)	219	(Rp000)	213	(Rp000)	र छ	(Rp000)	
1. Gross Return																			No-ti	llage	No-t	illage	
Unit Yield	(t/ha)		2.5		3.0		3.5		4.0		4.5		5.0		5.5		2.5		4.0		5.0		
Unit Price	(Rp.000/t)			1,510		1,510		1,510		1,510		1,510		1,510		1,510		1,300		1,300		1,300	
Gross Return	(Rp.000)			3,775		4,530		5,285		6,040		6,795		7,550		8,305		3,250		5,200		6,500	
2. Production cost				1,983		2,212		2,418		2,586		2,803		2,959		3,100		1,840		2,662		2,980	
2-1. Farm Inputs				317		408		507		568		706		785		864		491		981		1,122	
Seed 1/	(kg)		30	60	30	60	30	60	30	60	30	90	30	90	30	90	30	120	20	440	20	440	
Fertilizers				207		298		372		416		523		603		682		321		414		529	
- Urea	(kg)	1.47	100	147	100	147	150	221	150	221	180	265	200	294	225	331	150	221	150	221	200	294	
- SP36	(kg)	2.01	30	60	50	101	50	101	50	101	50	101	75	151	75	151	50	101	75	151	75	151	
- KCl	(kg)	1.69	0	0	30	51	30	51	30	51	50	85	50	85	75	127		0	25	42	50	85	
- ZA	(kg)	1.47	0	0	0	0	0	0	30	44	50	74	50	74	50	74		0		0		0	
Agro chemicals				50		50		75		93		93		93		93		50		128		153	
- Insecticide (liquid)	(lit)	50	1.0	50	1.0	50	1.5	75	1.5	75	1.5	75	1.5	75	1.5	75	1.0	50	1.0	50	1.5	75	
- Insecticide (powder)	(kg)	30																					
- Rodenticide	(kg)	35							0.5	18	0.5	18	0.5	18	0.5	18			0.5	18	0.5	18	
- Herbicide	(kg)	30																	2.0	60	2.0	60	
2-2. Labour Costs				1,133		1,248		1,334		1,421		1,478		1,536		1,579		1,037		1,195		1,267	
Contracted Works																							
- Planting/Transplanting 2/	(unit)	x 0.8	1	240	1	240	1	240	1	240	1	240	1	240	1	240							
- Harvesting	(unit)																						
Labour Requirements																							
- Hired Labor	(man-day)	14.4	18	259	26	374	32	461	38	547	42	605	46	662	49	706	10	144	15	216	20	288	
- Family Labor	(man-day)	14.4	44	634	44	634	44	634	44	634	44	634	44	634	44	634	62	893	68	979	68	979	
Total	(man-day)		62		70		76		82		86		90		93		72		83		88		
2-3. Land Preparation				380		380		380		380		380		380		380		0		0		0	
- Machinery	(unit)		1	380	1	380	1	380	1	380	1	380	1	380	1	380							
- Draft Animal	(unit)																						
2-4. Field Transportation	(L.S.)	x 0.9	2 %	59	2 %	70	2 %	82	2 %	94	2 %	105	2 %	117	2 %	129	2 %	50	2 %	79	2 %	99	
2-5. Shelling Cost		56/t																175		280		350	
2-6. Misceraneous Expenses	(L.S.)		5 %	94	5 %	105	5 %	115	5 %	123	5 %	133	5 %	141	5 %	148	5 %	88	5 %	127	5 %	142	
	, í			2.5		3.0		3.5		4.0		4.5		5.0		5.5		2.5		4.0		5.0	
3. Net Return	Rp.000			1,792		2,318		2,867		3,454		3,992		4,591		5,205		1,410		2,538		3,520	
	%			47		51		54		57		59		61		63		43		49		54	
	Rounded	%		1,790		2,320		2,870		3,450		3,990		4,590		5,200		1,410		2,540		3,520	

## Table A-5.5.2 Economic Crop Budget per Ha : North Sumatra

1/: Seed price: Paddy --- yield level < 4.5 Rp. 2,000; yield level ≧4.5 Rp. 3,000 Maize --- composite Rp. 4,000/kg; hybrid Rp. 22,000/ka

2/: Contract work for transplanting assumed --- Rp. 360,000/ha at financial price

# Table A-5.5.3 Estimated Project Benefits of Rehabilitation Plans : North Sumatra

			(Unit: million Rp.)								
		]	Project Benef	it	Gross Retu	Gross Return per Ha of Subject Area					
		Before	With	Project	Before	With	Incremental				
	Irrigation Scheme	Project	Project	Benefits	Project	Project	Gross				
	inigation Scheme	Net	Net	Incremental	Gross	Gross	Return				
		Return	Return	Net	Return	Return	per Ha				
		Return	Retuin	Return	per Ha	per Ha	perma				
1.	Gido Sebua	2,863	6,299	3,436	5,569	10,492	4,923				
2.	Batang Gadis	32,685	49,604	16,919	8,837	12,626	3,789				
3.	Batang Ilung	26,514	37,501	10,987	10,733	14,575	3,842				
4.	Blk Sitongkon/N. Suron	3,374	4,942	1,568	10,171	14,100	3,929				
5.	Siborna	1,701	6,020	4,319	3,250	9,325	6,075				
6.	Siaili Tukka	1,939	4,342	2,403	5,188	10,300	5,112				
7.	Badiri Lopian	4,033	7,330	3,297	6,762	11,598	4,836				
8.	Pandurungan	5,898	10,878	4,980	6,788	11,599	4,811				
9.	Sihiong	456	3,941	3,485	1,064	7,444	6,380				
10.	Aek Silang	1,497	7,985	6,488	1,727	7,833	6,106				
11.	Sarulla	3,469	9,818	6,349	3,360	8,539	5,179				
12.	Parmiahan Hutapaung	1,883	6,147	4,264	3,295	9,045	5,750				
13.	Sinamo	1,787	5,893	4,106	3,419	9,325	5,906				
14.	Aek Mandos I	2,867	6,598	3,731	4,292	9,169	4,877				
15.	Simangatasi II	3.574	9,593	6.019	3.937	9.324	5.387				
16	Bulung Ihit	7 014	11.054	4 040	7 802	11 604	3 802				
17	Perkotaan	19 594	30,656	11.062	8 588	12,624	4 036				
18	Sungai Balai	7 349	10 771	3 422	9.802	13 550	3 748				
19	Panca Arga	7,313	16 840	9.029	5 201	9 910	4 709				
20	Serbangan	12 427	19.482	7 055	9 164	13 549	4 385				
20.	Silau Bonto	12,427	19,402	1,055	9,104	7 410	7 410				
21.	Sungai Silau	407	2 683	2 276	1 651	8 733	7,410				
22.	Dadang Mahandang	7 262	2,005	12 246	4 206	10.023	5 917				
23.	Fadalig Manondalig	203	20,309	7 422	4,200	10,023	3,817				
24.	Durruodadi	11 226	16,409	1,423	10,230	14,102	2 754				
23.	Pulwodadi	225	16,104	4,938	10,349	7 6 4 9	5,/34				
20.	Simulatin Dana Dana	1 410	1,001	1,500	2,250	( 528	2,779				
27.	Simanun Pane Dame	1,410	4,430	5,026	2,750	6,528	3,//8				
28.	Panambean/Panet I. BK	13,401	19,120	5,719	11,414	15,399	5,985				
29.	R. Hombang / I. Manga.	13,173	21,942	8,769	9,838	15,300	5,462				
30.	Kerasaan	22,904	40,881	17,977	8,257	13,694	5,437				
31.	Javacolonisasi/Purbog.	/,996	11,2/4	3,278	11,559	15,405	3,846				
32.	Naga Sompah	6,145	11,010	4,865	9,366	15,303	5,937				
33.	Risma Duma	2,450	8,792	6,342	3,013	8,499	5,486				
34.	Lae Ordi	1,545	6,062	4,517	2,448	7,433	4,985				
35.	Parit Lompaten	3,883	10,121	6,238	5,120	11,592	6,472				
36.	Bandar Sidoras	18,401	31,890	13,489	8,065	12,901	4,836				
37.	Namu Rambe	3,977	8,339	4,362	5,959	11,501	5,542				
38.	Sei Belutu	27,297	45,160	17,863	8,398	12,625	4,227				
39.	Langau	6,876	15,160	8,284	5,874	11,325	5,451				
40.	Medan Krio	18,755	28,114	9,359	9,601	13,373	3,772				
41.	Rantau Panjang	4,133	14,226	10,093	3,250	9,050	5,800				
42.	Pekan Kamis	6,703	10,146	3,443	9,259	12,900	3,641				
43.	Secanggang	4,617	12,484	7,867	5,018	12,679	7,661				
44.	Paya Lobang	8,413	14,852	6,439	8,150	13,551	5,401				
45.	Namu Sira-sira Kiri	6,654	12,409	5,755	7,295	12,705	5,410				
46.	Namu Sira-sira Kanan	19,486	35,641	16,155	7,295	12,430	5,135				
47.	Bah Korah II	12,193	17,474	5,281	10,378	14,199	3,821				
48.	Sijambi	4,534	9,284	4,750	6,948	13,343	6,395				
49.	Rambung Mera	7,028	10,479	3,451	10,980	15,395	4,415				
50.	Paya Sordang	26,296	42,247	15,951	8,916	13,420	4,504				
	Total	1,192,832	1,112,773	344,238	Avg. 7,169	12,026	4,857				

Source: JICA Study Team for the Study on Comprehensive Recovery Program of Irrigation Agriculture

Irrigation Sahama	Subject Area	EIRR	B/C ^{1/}	<b>B</b> - C ^{1/}
Inigation Scheme	(ha)	(%)		(Rp. million)
1. Gido Sebua	883	14.5%	1.41	7,199
2. Batang Gadis	5,575	11.7%	1.15	15,766
3. Batang Ilung	3,546	11.2%	1.10	7,338
4. Blk Sitongkon/Napa Suron	500	3.1%	0.50	-11,520
5. Siborna	950	8.3%	0.86	-5,032
6. Siaili Tukka	600	12.5%	1.21	3,005
7. Badiri Lopian	899	11.8%	1.15	3,176
8. Pandurungan	1,334	11.5%	1.13	4,051
9. Sihiong	779	11.0%	1.09	2,025
10. Aek Silang	1,500	18.2%	1.79	20,079
11. Sarulla	1,692	23.0%	2.31	25,235
12. Parmiahan Hutapaung	1,000	12.7%	1.23	5,807
13. Sinamo	930	13.9%	1.34	7,536
14. Aek Mandos I	1,059	18.4%	1.78	11,848
15. Simangatasi II	1,514	21.1%	2.06	22,532
16. Bulung Ihit	1,355	18.5%	1.77	12,812
17. Perkotaan	3,446	8.8%	0.90	-8,727
18. Sungai Balai	1,130	10.6%	1.05	1,246
19. Panca Arga	2,500	26.2%	2.57	40,099
20. Serbangan	2,044	13.6%	1.33	12,589
21. Silau Bonto	967	11.7%	1.15	4,391
22. Sungai Silau	452	4.5%	0.58	-11,948
23. Padang Mahondang	2,905	19.4%	1.92	44,403
24. Simujur	2,010	14.0%	1.37	14,037
25. Purwodadi	1,635	7.3%	0.78	-9,940
26. Pentara	298	7.0%	0.76	-3,057
27. Simantin Pane Dame	1,000	13.1%	1.27	4,526
28. Panambean / Panet Tongah BK	1,722	9.9%	0.99	-527
29. Raja Hombang / T. Mangaraja	2,023	11.1%	1.10	5,733
30. Kerasaan	4,144	11.4%	1.13	14,145
31. Javacolonisasi/Purbogondo	1,015	8.0%	0.84	-4,655
32. Naga Sompah	1,015	11.0%	1.09	2,850
33. Risma Duma	1,522	9.4%	0.95	-2,564
34. Lae Ordi	1,200	9.0%	0.92	-2,877
35. Parit Lompaten	1,242	8.9%	0.91	-4,408
36. Bandar Sidoras	3,457	10.9%	1.08	6,903
37. Namu Rambe	1,036	9.8%	0.98	-666
38. Sei Belutu	5,076	17.9%	1.78	54,735
39. Langau	1,900	19.5%	1.90	28,486
40. Medan Krio	3,000	12.2%	1.20	10,813
41. Rantau Panjang	2,309	13.6%	1.34	17,798
42. Pekan Kamis	1,100	11.5%	1.13	2,862
43. Secanggang	1,400	10.5%	1.05	2,616
44. Paya Lobang	1,558	17.8%	1.73	19,766
45. Namu Sira-sira Kiri	1,350	12.2%	1.19	6,785
46. Namu Sira-sira Kanan	3,953	14.1%	1.39	31,711
47. Bah Korah II	1,723	9.1%	0.92	-3,183
48. Sijambi	1,008	8.6%	0.89	-4,462
49. Rambung Mera	944	6.2%	0.70	-10,803
50. Paya Sordang	4,350	14.9%	1.46	35,435

# Table A-5.5.4 Results of Economic Evaluation of Rehabiliation Plans: North Sumatra

1/: At discount rate of 10%

Source: JICA Study Team for the Study on Comprehensive Recovery Program of Irrigation Agriculture

Table A-6.2.1	Prioritization for Rehabilitation by Weighted Scoring Method
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Issue for Evaluation	Full Score	Evaluation Index	Weight	Weighted Score	Situation for High Priority
1 Issue of Irrigation System	50.0				
1 1 Rate of Utilization of Irrigation Potential	10.0	(1) Less than 50 %	1.0	10.0	Severe problem on irrigation
(=present irrigation paddy area / irrigated paddy	10.0	(2) 50 - 69 %	0.8	8.0	program achievement
area with project x 100)		(3) 70 - 100 %	0.5	5.0	program demovement.
1.2 Urgency of Rehabilitation	25.0				Severe problem on irrigation
1.2.1 Function of Water Resources Facility	10.0	<ol> <li>Serious condition for operation (Evaluation: D)</li> </ol>	1.0	10.0	facilities
		(2) Not functioning well (Evaluation: C)	0.8	8.0	
		<ul><li>(3) Partially deteriorated (Evaluation: B)</li><li>(4) Functioning well (Evaluation: A)</li></ul>	0.6 0.4	6.0 4.0	
	7.0		1.0	7.0	
1.2.2 Function of Main Canal System	/.0	(1) Serious condition for operation (Evaluation: D) (2) Not functioning well (Evaluation: C)	1.0	/.0	
		<ul> <li>(2) Not functioning well (Evaluation: C)</li> <li>(3) Partially deteriorated (Evaluation: P)</li> </ul>	0.8	3.0	
		<ul><li>(4) Functioning well (Evaluation: A)</li></ul>	0.0	2.8	
1.2.3 Function of Secondary Canal System	5.0	(1) Serious condition for operation (Evaluation: D)	1.0	5.0	
1.2.5 Tunetion of Secondary Canal System	0.0	<ul><li>(2) Not functioning well (Evaluation: C)</li></ul>	0.8	4.0	
		(3) Partially deteriorated (Evaluation: B)	0.6	3.0	
		(4) Functioning well (Evaluation: A)	0.4	2.0	
1.2.4 Function of On-farm System	3.0	(1) Serious condition for operation (Evaluation: D)	1.0	3.0	
		(2) Not functioning well (Evaluation: C)	0.8	2.4	
		(3) Partially deteriorated (Evaluation: B)	0.6	1.8	
		(4) Functioning well (Evaluation: A)	0.4	1.2	
1.3 Sustainability of Irrigation System	15.0	(1) M d 50	1.0		Severe problem on
1.3.1 Age of the Facility	1.5	(1) More than 50 years (2) $20 - 40$ years	1.0	/.5	sustainability
		(2) $50 - 49$ years (3) $15 - 29$ years	0.8	0.0	
		(4) Less than 15 years	0.4	3.0	
1.3.2 Technical Level	75	(1) Non-technical level	1.0	75	
	1.0	(2) Semi-technical level	0.8	6.0	
		(3) Technical level	0.5	3.8	
2 Issue of Agricultural Productivity	20.0				
2.1 Current Cropping Intensity of Paddy	10.0	(1) Less than 100 %	1.0	10.0	Severe problem on agriculture
(=annual cropping intensity of ruduy)	10.0	(1) Less than 100 /0 (2) 100 - 149 %	0.8	8.0	(low productivity)
( unital cropped and or paddy / subject and it		(3) 150 - 199 %	0.6	6.0	(ion productivity)
100)		(4) More than 200 %	0.4	4.0	
2.2 Current Unit Yield of Paddy	10.0	(1) Less than 60 % of planned target yield	1.0	10.0	Severe problem on agriculture
(=weighted average unit yield of irrigated & rainfed		(2) 60 - 79 % of planned target yield	0.8	8.0	(low productivity)
paddy in the scheme)		(3) 80 - 100 % of planned target yield	0.5	5.0	
3 Issue of Society	15.0				Severe social problem
3.1 Contribution to Regional Economy	7.5	(1) Less than 30 % of with project beneficiaries	1.0	7.5	
(Current Number of Beneficiaries)		(2) 30 - 59 % of with project beneficiaries	0.8	6.0	
		(3) 60 - 89 % of with project beneficiaries	0.6	4.5	
		(4) More than 90 % of with project beneficiaries	0.4	3.0	
3.2 Provision of Social Infrastructure	7.5	(1) Less than 40 % of total canal length of main & secondary canal	1.0	7.5	
(Current ratio of Inspection Road Provision)		(2) 40 - 59 % of total canal length of main & secondary canal	0.8	6.0	
		(3) 60 - 79 % of total canal length of main & secondary canal	0.6	4.5	
		(4) 80 - 100 % of total canal length of main & secondary canal	0.4	3.0	
4 Issue of Economic and Financial Impact	15.0				High economic and financial
4.1 Feasibility	7.5	(1) More than 20 %	1.0	7.5	impact
(EIRR)		(2) 15 - 19 %	0.8	6.0	
		(3) 10 - 14 %	0.6	4.5	
		(4) Less than 10 %	0.4	3.0	
4.2 Rate of Increase of Gross Agricultural Retern per ha	7.5	(1) More than 200 %	1.0	7.5	
(=planned annual gross retern per ha / current		(2) 150 - 199 % (3) Less than 150 %	0.8	6.0	
TOTAL	100.0	(5) Loss tilall 150 /0	0.0	4.3	
IVIAL	100.0				

Irrigation Scheme	Utilization of Irrigation Potential Function of Water Resources Facility Function of Main Canal Function of Secondary Canal Function of Secondary Canal Function of On-farm Factor of Deterioration by Year of Construction Technical Level Current Cropping Intentsity Current Unit Yield of Paddy Provision of social infrastructure EIRR Rate of Increase of Gross Agricultural Return	Total Ranking Score	Classified Group
1 Gido Sebua	Group VI (Subject area is less than 1,000 ha)		Group VI
2 Batang Gadis	(3) (3) (3) (2) (2) (4) (3) (3) (3) (4) (4) (3) (3)	54.4 17	Group III
3 Batang Ilung	(3) (3) (2) (2) (2) (4) (3) (3) (3) (4) (2) (3) (3)	58.8 15	Group III
4 Blk Sitongkon/Napa Suron	Group VI (Subject area is less than 1,000 ha)		Group VI
5 Siborna	Group VI (Subject area is less than 1,000 ha)		Group VI
6 Siaili Tukka	Group VI (Subject area is less than 1,000 ha)		Group VI
7 Badiri Lonian	Group VI (Subject area is less than 1,000 ha)		Group VI
8 Pandurungan	(3) (1) (1) (2) (3) (3) (2) (2) (3) (1) (3) (2)	76.2 2	Group I
0 Sibiong	(5) $(1)$ $(1)$ $(1)$ $(2)$ $(3)$ $(3)$ $(2)$ $(2)$ $(3)$ $(1)$ $(3)$ $(2)$	/0.2 2	Group VI
9 Sinong 10 Asle Silong	Crown V (Association of WILAs setablishment)		Group VI
10 Aek Shang	Group V (Accertation of WUAs establishment)		Group V
11 Sarulla	Group V (Acceratation of WUAs establishment)		Group V
12 Parmiahan Hutapaung	Group V (Acceratation of WUAs establishment)		Group V
13 Sinamo	Group VI (Subject area is less than 1,000 ha)		Group VI
14 Aek Mandos I	(3) (2) (3) (1) (1) (4) (2) (1) (2) (4) (2) (2) (1)	74.7 4	Group I
15 Simangatasi II	(3) (2) (2) (2) (2) (4) (3) (2) (2) (4) (1) (1) (1)	73.3 5	Group I
16 Bulung Ihit	(3) (3) (1) (1) (2) (4) (3) (3) (3) (4) (4) (2) (3)	59.7 14	Group III
17 Perkotaan	(3) (3) (2) (2) (3) (4) (3) (3) (3) (4) (4) (4) (3)	53.7 18	Group III
18 Sungai Balai	(3) (2) (1) (1) (2) (4) (2) (3) (3) (4) (1) (3) (3)	66.9 6	Group I
19 Panca Arga	Group IV (Reformulation of development plan)		Group IV
20 Serbangan	Group IV (Reformulation of development plan)		Group IV
21 Silau Bonto	Group V (Acceralation of WUAs establishment)		Group V
22 Sungai Silau	Group IV (Reformulation of development plan)		Group IV
23 Padang Mahondang	(1) $(1)$ $(1)$ $(1)$ $(1)$ $(3)$ $(2)$ $(2)$ $(1)$ $(1)$ $(4)$ $(2)$ $(1)$	87.5 1	Group I
24 Simuiur	(2) (1) (1) (1) (1) (3) (2) (2) (2) (4) (4) (3) (2)	76.0 3	Group I
25 Purwodadi	(3) $(2)$ $(1)$ $(1)$ $(2)$ $(4)$ $(3)$ $(3)$ $(3)$ $(1)$ $(4)$ $(4)$ $(3)$	63.2 9	Group II
26 Pentara	Group VI (Subject area is less than 1,000 ha)		Group VI
27 Simantin Pane Dame	Group V (Acceralation of WUAs establishment)		Group V
28 Panambean / Panet Tongah BK	(3) $(3)$ $(2)$ $(1)$ $(2)$ $(4)$ $(3)$ $(3)$ $(3)$ $(4)$ $(1)$ $(4)$ $(3)$	59.8 12	Group II
29 Raja Hombang / T. Mangaraja	$\begin{array}{c} (3) \\ (3) \\ (2) \\ (1) \\ (2) \\ (1) \\ (2) \\ (1) \\ (2) \\ (3) \\ (3) \\ (3) \\ (3) \\ (4) \\ (1) \\ (3) \\ (2) \\ (3) \\ (2) \\ (3) \\ (3) \\ (3) \\ (4) \\ (1) \\ (3) \\ (2) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\$	63.4 8	Group II
30 Kerasaan	$\begin{array}{c} (3) \\ (3) \\ (2) \\ (2) \\ (1) \\ (1) \\ (1) \\ (3) \\ (3) \\ (2) \\ (3) \\ (3) \\ (4) \\ (4) \\ (3) \\ (2) \\ (2) \\ (3) \\ (4) \\ (4) \\ (3) \\ (2) \\ (3) \\ (2) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\$	64.4 7	Group II
31 Javacolonisasi/Purbogondo	$ \begin{array}{c} (3) \\ (2) \\ (2) \\ (2) \\ (1) \\ (1) \\ (2) \\ (3) \\ (3) \\ (2) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (4) \\ (3) \\ (3) \\ (4) \\ (3) \\ (3) \\ (4) \\ (3) \\ (3) \\ (4) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) \\ (3) $	56.8 16	Group III
22 Naga Sompah	(5) $(5)$ $(2)$ $(1)$ $(2)$ $(4)$ $(5)$ $(5)$ $(5)$ $(4)$ $(5)$ $(4)$ $(5)$	50.0 10	Group VI
32 Rigna Duma	Crown VI (Less facility was provided)		Group VI
33 Kisilia Dullia 34 Lee Ordi	Group V (Less facility was provided)		Group VI
25 Darit Lamater	Group VI (High rababilitation cost)		Group V
26 Dandan Sidar	Group VI (nigh renabilitation cost)		Group VI
36 Bandar Sidoras	Group V (Accertation of WUAs establishment)		Group V
37 Namu Rambe	Group VI (High renabilitation cost)		Group VI
38 Sei Belutu	Group V (Acceratation of WUAs establishment)		Group V
39 Langau	Group V (Acceratation of WUAs establishment)		Group V
40 Medan Krio	Group V (Acceratation of WUAs establishment)		Group V
41 Rantau Panjang	Group VI (Less facility was provided)		Group VI
42 Pekan Kamis	Group V (Acceralation of WUAs establishment)		Group V
43 Secanggang	Group VI (High rehabilitation cost)		Group VI
44 Paya Lombang	Group V (Acceralation of WUAs establishment)		Group V
45 Namu Sira-sira Kiri	(3) (3) (2) (2) (1) (3) (3) (2) (3) (4) (4) (3) (2)	61.4 10	Group II
46 Namu Sira-sira Kanan	(3) (3) (2) (2) (2) (3) (3) (2) (3) (4) (4) (3) (2)	60.8 11	Group II
47 Bah Korah II	Group V (Acceralation of WUAs establishment)		Gourp V
48 Sijambi	Group V (Acceralation of WUAs establishment)		Group V
49 Rambung Mera	Group VI (Subject area is less than 1,000 ha)		Group VI
50 Paya Sordang	(3) (3) (2) (1) (2) (4) (3) (3) (3) (3) (4) (3) (2)	59.8 12	Group II
Average		64.8	
Itemized Total	(1) 1 3 6 12 6 0 0 1 1 2 5 1 3	Group I :	6
	(2) 1 5 10 6 11 0 4 7 4 0 2 3 7	Group II :	7
	(3) 16 10 2 0 1 6 14 10 13 2 1 10 8	Group III :	5
	(4) 0 0 0 0 0 12 0 0 0 14 10 4 0	Group IV :	3
		Group V :	14

 Table A-6.2.2
 Priority Ranking for Rehabilitation : North Sumatra

Source: JICA Study Team for the Study on Comprehensive Recovery Program of Irrigation Agriculture Group I: First priority group (Ranking 1 - 6) Group II: Second priority group (Ranking 7 - 12) Group II: Third priority group (Ranking 13 - 18) Group IV: Reformulation of water resources development plan Group V: Acceralation of WUAs establishment Group VI: Development by other category or method

Group VI :

15

# Table A-7.3.1 Breakdown of Area, Cost, Construction Package for Recovery Program on Action Plan : North Sumatra

Priority	Calaria Ma	Indianation Columna	District	Subject Area	Const. Cost	Nos.	of Contract.	Const. Period
Group	Scheme No.	Irrigation Scheme	District	(ha)	(Bil. Rp.)	F/S	Construction	(Year)
I	PI-1	Pandurungan	Tapanuli Tengah	1,334	30	1	1	2
	PI-2	Aek Mandos I	Toba Samosir	1.059	13	1	1	2
	PI-3	Simangatasi II	Toba Samosir	1.514	19	1	1	2
	PI-4	Sungai Balai	Asahan	1,130	22	1	1	2
	PI-5	Padang Mahondang	Asahan	2,905	42	1	2	2
	PI-6	Simulur	Asahan	2 010	34	1	1	2
	Total I	Siniajai	Tounun	9,952	160	6	7	2
	100011			),)52	100	0	,	
П	PII-1	Purwodadi	Asahan	1.635	43	1	1	2
	PIL-7	Panambean / Panet Tongah BK	Simalungun	1,055	30	1	1	2
	DII 2	Paia Hombang / T. Mangaraja	Simalungun	2 023	55	1	1	2
	F11-5 DIL 4	Kaja Hollibalig / T. Maligalaja	Simalungun	2,023	106	1	2	2
	ГП-4 DII 5	Nomen Sing aing Kini	Simalungun	4,144	100	1	2	2
	F11-5 DIL 6	Namu Sina sina Kanan	Langkat/Binjai	1,330	33	1	1	2
	P11-0	Namu Sira-sira Kanan	Langkat/Binjai	5,955	70	1	2	2
	PII-/	Paya Sordang	Tapanuli Sel/Mandalling Natal	4,350	/0	1	2	2
	Total II			19,177	422	/	10	
	DITL 1				0.5	1		2
111	PIII-I	Batang Gadis	Mandaling Natal	5,575	95	1	2	2
	P111-2	Batang Ilung	Tapanuli Selatan	3,546	68	1	1	2
	PIII-3	Bulung Ihit	Labuhan Batu	1,355	14	1	1	2
	PIII-4	Perkotaan	Asahan	3,446	84	1	2	2
	PIII-5	Javacolonisasi/Purbogondo	Simalungun	1,015	27	1	1	2
	Total III			14,937	288	5	7	
IV	PIV-1	Panca Arga	Asahan	2,500	73	1	N.A	
	PIV-2	Serbangan	Asahan	2,044	78	1	N.A	
	PIV-3	Sungai Silau	Asahan	452	20	1	N.A	
	Total IV			4,996	171	3		
V	PV-1	Aek Silang	Tapanuli Utara	1,500	22	1	N.A	
	PV-2	Sarulla	Tapanuli Utara	1,692	16	1	N.A	
	PV-3	Parmiahan Hutapaung	Tapanuli Utara	1,000	23	1	N.A	
	PV-4	Silau Bonto	Asahan	967	42	1	N.A	
	PV-5	Simantin Pane Dame	Simalungun	1,000	14	1	N.A	
	PV-6	Lae Ordi	Dairi	1,200	32	1	N.A	
	PV-7	Bandar Sidoras	Deli Serdang	3,457	85	1	N.A	
	PV-8	Sei Belutu	Deli Serdang	5,076	63	1	N.A	
	PV-9	Langau	Deli Serdang	1,900	28	1	N.A	
	PV-10	Medan Krio	Deli Serdang	3,000	50	1	N.A	
	PV-11	Pekan Kamis	Deli Serdang	1,100	20	1	N.A	
	PV-12	Paya Lombang	Deli Serdan/Tebing Tinggi	1,558	24	1	N.A	
	PII-6	Bah Korah II	Simalungun/Siantar	1.723	39	1	N.A	
	PV-13	Sijambi	Asahan/Tanjung Balai	1.008	38	1	N.A	
	Total V	J		26,181	496	14		
VI	PVI-1	Gido Sebua	Nias	883	16	1	NA	
	PVI-2	Blk Sitongkon/Napa Suron	Tapanuli Selatan	500	22	1	NA	
	PVI-3	Siborna	Tapanuli Selatan	950	34	1	NA	
	PVI-4	Siaili Tukka	Tapanuli Tengah	600	13	1	NA	
	PVI-5	Badiri Lopian	Tapanuli Tengah	899	19	1	NA	
	PVI-6	Sihiong	Tapanuli Tengah	779	20	. 1	NA	
	PVI-7	Sinamo	Tapanuli Utara	930	20	1	NA	
	PVI-8	Pentara	Simalungun	298	12	1	NA	
	PVI-9	Naga Somnah	Simalungun	1 015	30	1	NA	
	PVI-10	Risma Duma	Dairi	1,013	30	1	NA NA	
	PVI_11	Parit Lompsten	Karo	1,322	44	1	NA NA	
	PVI_12	Namu Rambe	Deli Serdang	1,242	21	1	NA NA	
	1 VI-12 DVI 12	Pantau Daniang	Deli Serdang	1,030	31	1	INA NA	
	1 VI-13 DVI 14	Kantau Fanjang	L angkat	2,309	49	1	INA NA	
	1 VI-14 DVI 15	Dembung Mara	Laligkat	1,400	32	1	INA NA	
	r VI-13 Total VI	Kamoung Mera	r. Siantar/Simalungun	944	34	1	INA	
	TOTAL VI			15,307	443	15		
	Grand Tatal			00.550	1 000			
	GIONU IOUAL			90,330	1,980			
							1	

# Figures



Figure A-1.4.1 Organization Set-up of Provincial Agriculture Agencies in North Sumatra

AF - 1



AF-2





AF . 4
PLATE NO.



PLATE NO.





AF -

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AF - 8











AF - 13

PLATE NO.







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SECTION A-A



SECTION B-B





RIGHT SIDE VIEW

 $\mathbf{\hat{\cdot}}$ 



ROOF PLAN



The Study on Comprehensive Recovery Program of Irrigation Agriculture Japan International Cooperation Agency

Figure 5.2.1 (16/16) TYPICAL DRAWING OPERATION OFFICE AND GATE KEEPER HOUSE



n · · ·		1		Due	E/S	1				Va	fuom			t of Mid	town Di	1000				
Group	Phase		Work Description	let	-1/3	1 et	2nd	3rd	4th	5th	6th	7th	8th	0th	10th	11th	1.2th	13th	1.4th	15th
Group	Initiation	Pre-Feasibility	Preparation of Master List		2110	150	2110	Jiu	401	500	oui	701	oui	700	Totti	TTUI	120	150	1401	1500
		The Feasionity	Pre-F/S level Field Investigation		1															
			Second Screening by Water																	
			Resources Availability																	
			Formulation of Pre-F/S level Development Plan																	
			Prioritization																	
			Preparation of Action Plan																	
			*																	
I.	Midterm	Feasibility Study	Procurement of Consultant													Group	I			
			Preparation of F/S													Numbe	r of sche	eme: 6		
			Financial Arrangement													Irrigatio	on Area:	9,952 h	a	
																Constru	iction Lo	ot: 7		
	Final	Implementation	Procurement of Consultant																	
			Detailed Design								D									
			Tender																	
			Construction																	
			Guidance, training etc.																	
П.	Midterm	Feasibility Study	Procurement of Consultant																	
			Preparation of F/S					Π								Group	п			
			Financial Arrangement													Numbe	r of sche	eme: 7		
																Irrigatio	on Area:	19,177	ha	
	Final	Implementation	Procurement of Consultant													Constru	iction Lo	ot: 10		
			Detailed Design										0							
			Tender																	
			Construction																	
			Guidance, training etc.																	
III.	Midterm	Feasibility Study	Procurement of Consultant													Group	ш			
			Preparation of F/S													Numbe	r of sche	eme: 5		
			Financial Arrangement													Irrigatio	on Area:	14,937	ha	
																Constru	iction Lo	ot: 7		
	Final	Implementation	Procurement of Consultant																	
			Detailed Design												1					
			Tender																	
			Construction																	
			Guidance, training etc.																	
															Group I	IV				
IV.	Midterm	Review and Prepar	ation of Development Plan									(Contin	ue to fu	ture step	Number	r of sche	eme: 3			
															Irrigatio	on Area:	4,996 h	a		
													Group	V						
v.	Midterm	Institutional Capac	ty Building							(Contin	ue to fut	ure step)	Numbe	r of sche	me: 14					
													Irrigati	on Area:	26,181	ha				
														Group	VI					
VI.	Midterm	Review and Prepar	ation of Development Plan								(Contin	ue to fut	ure step)	Numbe	r of sche	eme: 15				
														Irrigatio	on Area:	15,307	ha			

#### Figure A-7.3.1 Action Plan of Recovery Program of Irrigation Agriculture : North Sumatra

# PART II

## FEASIBILITY STUDY FOR SELECTED MODEL SCHEME



## **CHAPTER 1 PRESENT CONDITION**

## **1.1** Natural Conditions

#### (1) Location

The project area lies in the central part of North Sumatra province about 160 km southeast from Medan, the capital city of the province. Administratively, the project area is within the jurisdiction of one Kecamatan (Pulo Rakyat) of Asahan district.

## (2) Climate and Hydrology

The project area lies in the tropical monsoon zone. The annual average temperature is about 26°C with very little seasonal variation throughout a year. The temperature varies from a maximum of 32 °C to a minimum of 22 °C. The climate conditions of the area are shown in Table B-1.1.1.

The area is affected by the northeast monsoon from the China Sea in September through December and southwest monsoon from the Indian Ocean in March through May. The main wet season begins in the coastal area facing the Strait of Malacca with heaviest rain in October and it reaches the coast of the Indian Ocean after one to one and a half months. In the secondary rainy season, however, due to the existence of a mountain range over 2,000 m high to the west of the area, the influence of the monsoon is weakened and hence the area receives considerable rainfall even in the dry season. There are no severe dry months.

The annual rainfall is about 2,000 mm in the project area and about 2,000 to 3,500 mm to the west towards the mountains. In general the water resources in the area are ample. The relative humidity is high at 88% on average ranging between 90% in the highest month and 87% in the lowest.

(3) River System and River Runoff

The major river in the project area is the Asahan River. The catchment area of the Asahan River at Pulau Raja site is:  $4,608 \text{ km}^2$  and annual mean discharge is estimated at  $150 \text{ m}^3$ /s. The Asahan River originates from Lake Toba regulating the water level at about El. 905 m and runs about 150 km, into the Strait of Malacca after joining the Silau River at Tanjung Balai.

#### (4) Topography and geology

The topography of the project area is mostly wide and flat alluvial plain lower than El. 20 m including lower swampy areas.

The area at the elevation of 10 m to 15 m has terrace deposits mainly composed of sand and silt forming belts, projected low ridges and isolated islands. Alluvial plain deposit, including that in the vast swampy area, mostly consists of fine silt to clayey soils inter bedded by thin soil layers and organic soil layers.

#### 1.2 Socio-economy

Administratively, the Scheme is located in Pulau Rakyat Sub-district (the project sub-district), one of 17 sub-districts of Asahan District. The beneficiary area of the Scheme extends into 2 villages (the project *desas*: Padang Mahondang and Ofa Padang Mahondang). The administrative area of the project sub-district is 251.0 km² and that of the project *desas* is 91.3 km².

The population of the project sub-district was 30,631 and in the project *desas* was 8,088 in 2002. Number of households and the average family size in the sub-district are 6,834 and 4.5 persons, respectively. The same in the *desas* are respectively 2,324 and 3.5. There were no transmigrant households in the *desas*. The rural population of the sub-district accounts for 90% of the total.

Major socio-economic features of the sub-district and *desas* are presented in the following table.

Indicators	Project Sub-district	Project Desas
Area (km ² )	251.0	91.3
No. of <i>Desas</i>	11	2
Population	30,631	8,088
No. of Households	6,834	2,324
Average Family Size	4.5	3.5
Population (Age group: $15 - 64$ )	18,927	-
Population (Age group: $\geq =/>65$ )	1,931	-
Labor Force per Family	2.9	-
Origin of Residents	Local residents ( $\Rightarrow$ 100%)	Local residents ( $\Rightarrow$ 100%)

Socio-economic Features of Project Sub-district & Desas

Source: Kabupaten Asahan Dalam Angka & Kecamatan Pulau Rakyat Dalam Angka, 2002

The agriculture sector is the main economic activity both in the sub-district and the *desas*. The primary sub-sector in the sub-district is estate crop production and the main commodity is oil palm followed by rubber. The primary sub-sector in the *desas* is food crops production and the main commodity is paddy. The production of the estate crops is carried out mostly by the estate, PT. Perkebunan Nusantara, which operates a large oil palm processing factory in the sub-district. While, the production of estate crops, rubber and oil palm, is also carried out by small holders in both the sub-district and the *desas*. The secondary agriculture sub-sector in the

sub-district is food crop production. The main crop is paddy and production of other crops is rather limited.

Other agricultural activities in the sub-district include the livestock sub-sector, though its scale is limited to the said two sub-sectors.

## **1.3** Present Irrigation and Drainage Condition

## (1) General

The history of irrigation in the project area is relatively short. In former times the main focus for agricultural development was placed on tree crop plantations such as oil palm, rubber and coconuts. Paddy schemes in the area have been developed only in the last 20 years by Kimpraswil (former DPU), North Sumatra province and district public service office of Asahan District.

Irrigation schemes in the area are of the gravity irrigation type diverting irrigation water from the Asahan River through the free intake facility located about 2 km downstream of the national highway.

The irrigation scheme is found to be very poor since the end of 1990's due to poor function of the existing free intake facility, especially in the dry season. In the dry season, the water level of the Asahan River becomes lower than the required intake water level, so that irrigable area becomes very small.

(2) Inventory of the Existing System

Field investigation of the existing irrigation facilities was carried out by the JICA Team prior to the formulating the rehabilitation plan in September and October 2003.

The survey results indicate that the existing irrigation scheme in the project area is broadly divided into two areas according to the present agricultural condition. The land with an area of 700 ha is utilized as irrigated paddy field with semi-technical level in the wet season and the other land with an area of about 2,200 ha is rainfed paddy.

The Location map of project area is shown in Figure B-1.3.1.

(3) Present Conditions and Problems

Inventory of the major existing irrigation and drainage facilities in the project area was drawn up for the preparation of the development plan of the pre-feasibility level. Based on the inventory, structural conditions of all the existing facilities were assessed according to the criteria that categorize the conditions of the existing facilities into four classes on the basis of the degree of deterioration. According to the results of the inventory, all facilities were classified into D (to be replaced and/or reconstructed) and summarized as follows:

- (a) Malfunctioning of the free intake
- (b) Absolute shortage of canal length
- (c) Inadequate provision and deterioration of irrigation facilities
- (d) Poor drainage conditions
- (e) Lack of water management activities
- (4) Rural Infrastructure

There are no inspection roads along the canals. The village roads in the project area are unpaved earth surface of only 3-4 m wide and are very poorly maintained and hence impassable in the wet season.

(5) Operation and Maintenance

The existing scheme was constructed by PWRS North Sumatra and maintained by its branch office at Kisaran. However, no proper operation and maintenance have been practiced since the end of 1990's after Asahan District Government took over management activities of irrigation schemes.

Following are photographs of the existing condition of the scheme.



1. Upstream View of Asahan River at Intake Site



 Inlet Channel of Intake from Asahan River (No removal of sediment and eroded earth)





 Condition of Intake (Free Intake System) (No O&M for a long time)

4. Condition of Main Canal at 2 km Point (Out of Services)



5. Condition of Terminal Facility (Out of Services)



6. Village Road and Paddy Field

## 1.4 Agriculture

The basic agriculture features of the Scheme are presented in summarized form in Table B-1.4.1 and discussed in the following sections.

## 1.4.1 Agro-demography

The agro-demographic features of the project sub-district are estimated based on the results of the Agriculture Census, 1993 (district & sub-district), 2003 (*Desa* Padang Mahondang) carried out by BPS¹ and information provided by BPP as presented in Table B-1.4.1 and summarized in the following table.

¹ Based on "Sensus Pertanian 1993, Hasil Pendaftaran Rumatangga, Kantor Statistik Kabupaten Asahan" & "Tentative results of Agriculture Census 2003, BPS Asahan"

Agro-demographic Indicators	Project Sub-district ^{*1}	Padang Mahondang ^{*2}
Proportion of Farm Households to Total Households	51 %	93 %
Proportion of Farm Households Having Activity in		
- Food Crops Farming	31 %	76 %
- Horticulture Crops Farming	5 %	8 %
- Estate Crops Production	74 %	33 %
- Livestock	96 %	18 %

#### Agro-demographic Features of Project Sub-district

Note *1: Results of the Census on the rural areas of the sub-district

*2: Tentative results of Agriculture Census, 2003, BPS Asahan

On the basis of the tables, the number of farm households of the project sub-district and *desas* in 2002 is estimated at some 3,490 accounting for 51% of the total 6,834 households and some 2,160 accounting for 93 % of the total 2,324households, respectively. Primary farming activity of the farm households in the sub-district is estate crops production followed by food crops production. Farm households having activity in estate crops production represent some 74% of the total farm households. While, in the project *desas* a similar percentage of the households are involved in food crop production.

The current land holding status in the project sub-district and *desa* were estimated based on the number of farm households and the present agricultural land use as shown in Table B-1.4.1. On the basis of the tables, the land holding status of the project *desas* could be assumed as follows;

Indicators	Project Desas
Average Farm Land Holding Size/Farm Household	2.47 ha
Average Holding Size of Paddy Field/Farm Household	1.22 ha
Distribution of Farm Household by Holding Size	
- < 0.5 ha	35 %
$- \ge 0.5$ ha	65 %

**Estimated Land Holding Status in Project Desas** 

#### 1.4.2 Land Use

According to the JICA study report², the land use of the Scheme in 1990 was estimated as: irrigated paddy field 1,100 ha, rainfed paddy field 1,400 ha and others 830 ha. While, from the information provided by the irrigation services office (Balai PSDA Bah Bolon-Asahan) and the statistic data on cropped areas of the Asahan District Agriculture Services Office, the present land use statuses are estimated as: irrigated paddy field 724 ha, rainfed paddy field currently in use 436

² Master Plan Study on Lower Asahan River Basin Development, JICA, 1990

ha, others 2,071 ha and 3,231 ha in total. The oil palm planted land is roughly estimated at some 600 ha.

The present land use of the Scheme has been estimated on the basis of the said information as the availability of reliable information on the same is limited. The present status assumed is shown in Table B-1.4.1 and in the following table.

Innicated	Ra	ainfed Paddy Fie	Trac Cran Land			
Daddy Field	Currently	Long Fal	low Land	(Oil Dalm)	Total	
Faulty Fleid	Used	Bush Light Forest		(On Failil)		
724 ha	436 ha	736 ha	735 ha	600 ha	3,231 ha	
22.4 %	13.5 %	22.8 %	22.7 %	18.6 %	100 %	

Present Land Use of Padang Mahondang Scheme

As shown in the table, the vegetation covers of the long fallow land are assumed to be bush (50%) and light forest (50%).

The deterioration of the irrigation scheme could be attributed to the decrease of irrigation water intake caused by the draw-down of the river. The existence of the large long fallow lands is due mainly to the low productivity in rainfed paddy fields due to poor drainability of the fields and partly to the shortage of labor forces.

## 1.4.3 Cropping Schedule and Pattern

The prevailing cropping schedules and patterns in the Scheme are identified as shown below and in Table B-1.4.1.

Cropping Schedules

-	Paddy (planting ~ harvest):	Wet Season: Nov Feb. ~ Feb Apr.
		Dry Season: May - July ~ Aug Oct.
-	Palawija:	Cultivation both in wet and dry season
		(area limited)

#### Cropping Pattern

- Irrigated Paddy Field: wet dry season: paddy -paddy/ palawija/ fallow
- Rainfed Paddy Field: wet dry season: paddy/ palawija/ fallow fallow

(cropped area limited)

## 1.4.4 Cropped Area and Cropping Intensity

The irrigation performances in irrigated paddy fields expressed by cropped area and cropping intensity and the cropped area and cropping intensity in rainfed paddy fields are estimated based on the information provided by the District Water Resources Office, the statistical data of the District Agriculture Services Office and on the past records on cropped areas shown in Table B-1.4.2. The results are shown in Table B-1.4.1 and summarized below.

Cropped Area	Irrigated Paddy	Rainfed Paddy	Palawija	Total	C.I
Wet Season	350 ha	810 ha	53 ha	1,213 ha	46%
Dry Season	163 ha	-	62 ha	225 ha	9%
Annual	513 ha	810 ha	115 ha	1,438 ha	55%

Note: C.I: Cropping intensity to 2,631 ha

As shown in the tables, the overall cropped area and cropping intensity of paddy in the Scheme is respectively estimated as low as: wet season 1,160 ha, dry season 163 ha, annual 1,323 ha and wet season 44%, dry season 6%, annual 50%. The irrigation performance in the irrigated fields expressed by cropping intensity is 131% in total; paddy 123% and palawija 9%. The annual cropped area of palawija is around 115 ha and the cropping intensity total is 4%. The overall cropping intensity in the Scheme stands at 55%.

#### 1.4.5 Crop Yield and Production

The present yield levels of paddy and palawija in the Scheme are estimated on the bases of the findings of the Phase I Study (estimation of irrigated paddy yield), the field observation and information provided by PPLs deployed in the Scheme and representatives of farmers organizations as follows;

<b>-</b>	9	3
Crops	Wet Season	Dry Season
Irrigated Paddy	4.0 t/ha	4.0 t/ha
Rainfed Paddy *1	2.5 t/ha	-
Rainfed Paddy	2.0 t/ha	-
Palawija (maize composite)	3.0 t/ha	3.0 t/ha

Current Crop Yields in Padang Mahondang Scheme

Note *1: Paddy in irrigated fields grown under rainfed conditions

On the bases of the estimated yields and the cropped areas, the crop productions at present are estimated as shown in Table B-1.4.1 and summarized below.

Present Crop Prod	luction in Padang	g Mahondang Sc	heme
0	THE C	D G	

Crops	Wet Season	Dry Season	Annual
Paddy	3,207 t	652 t	3,859 t
Palawija (maize composite)	159 t	186 t	345 t

#### 1.4.6 Farming Practices and Crop Budget

The current prevailing farming practices for paddy are as shown in Table B-1.4.3 and summarized below.

	5
Variety	Improved variety: IR 64 & Ciherang (115 days)
Nursery	Seeding rate: 30 kg/ha; period 20 ~ 25 days
Land Preparation	By machinery (hand tractor)
Planting	Manual transplanting (regular/random)
Fertilization	NPK applied (irrigated field); volume depending
Harvesting	Manual; threshing by power/pedal thresher

**Farming Practices** 

Current crop budgets of major crops (irrigated & rainfed paddy and palawija) in the Scheme are studied based on the data collected through the Inventory Survey and crop budget analyses made by the District Agriculture Services Office, Asahan as shown in Table B-1.4.3 and summarized in the following table.

Commodity	Yield	Gross Return	Production Cost	Net Return
Commodity	(t/ha)	(Rp.000)	(Rp.000)	(Rp.000)
Irrigated Paddy ^{*1}	4.0	5,200	2,170	3,030
Rainfed Paddy *2	2.5	3,250	1,500	1,750
Rainfed Paddy *3	2.0	2,600	1,390	1,210
Maize (composite)	3.0	3,300	1,050	2,250

Financial Net Return per Ha

Note *1: Wet & dry season paddy

*2: Paddy grown under rainfed condition in irrigation command area

*3: Paddy grown in rainfed paddy field

#### 1.4.7 Marketing

The prevailing marketing practices of paddy in the Scheme is "selling paddy just after harvest at field" followed by "selling paddy after drying". The prevailing marketing channel of paddy is "selling paddy to collector/middleman" followed by "selling paddy to rice mill". The marketing practice of palawija is "selling to collector/ middleman" followed by "selling at local market".

#### 1.4.8 Farm Economy

The primary objective of the farm economic analysis under the present Study is to examine capacity-to-pay or possible contribution of O&M costs by beneficiary farmers after the project. Further, the limited accessibility to reliable sources on farm household income and expenditures prevent examining farm economic conditions. Accordingly, the present farm economic analysis has been made on 1 ha of irrigated paddy field or rainfed paddy field by estimating net farm income from the field. The results of the farm economic analyses thus made are presented as follows:

Land Use Category	Net Farm Income (Rp. 000)	Cropping Pattern Assumed	
Irrigated Paddy Field	4,840	Paddy (1ha) - paddy (0.47ha)/palawija (0.17ha)	
Rainfed Paddy Field *1	1,750	Paddy (1ha) - fallow	
Rainfed Paddy Field	1,320	Paddy (0.89ha) - palawija (0.11ha)	

#### Estimated Net Farm Income from 1 ha of Paddy Field

Note *1: Paddy field in irrigation command area, but being under rainfed condition

#### 1.4.9 Agricultural Support Institutions, Farmers' Organizations and Extension

#### (1) Agricultural Support Institutions and Farmer Organizations

The main governmental agricultural support institutions providing technical and institutional support in and around the Scheme include the Rural Extension Services Center (BPP), District Agriculture Services Office, District Food Security & Agriculture Extension Office, seed farm and the Seed Supervision & Certification Branch Office at district level as shown in Table B-1.4.1. The organizational set-ups of the District Offices are illustrated in Figure B-1.4.1. The district institutions are placed under the jurisdiction of the district governor, although the technical guidance and support linkages with the central and provincial agencies are still maintained. BPPs and Field Extension Workers (PPLs) are placed under the District Food Security & Agriculture Extension Office of Asahan District Government.

A number of farmers' organizations involved in agricultural activities are formed in the project sub-district and *desas*. Among these, the major ones are the Farmers' Group (*Kelompok Tani*/KT) and Water Users' Association (P3A). The number of KTs formed in the project sub-district and their development status assessed by district agricultural agencies are shown in Table B-1.4.1. In the project sub-district, 48 KTs with a total membership of about 1,950 have been formed. Of 48 KT, 13% are classified as primary level (*pemula*), 52% as secondary level (*lanjut*), 33% are middle level (*madya*) and 2% is advance level (*maju*).

There are 2 KUDs, 2 KOPTAN, 1 UPJA and 1 BRI Village Unit in the project sub-district, though the KUDs has no activity at present. General problems encountered by KUD are reported to be: i) cooperative funds still limited, ii) management capability still poor and iii) awareness of members on cooperative activities, member's rights & responsibilities and cooperative principles are still limited.

#### (2) Agricultural Extension

One of the main features of the decentralization policy in the agriculture sector is the devolution of agricultural extension activities to the district government. Therefore, the functions of the provincial extension agencies have faded away and their current main functions are to provide technical guidance and support to district agencies. The arrangements for institutions for the agricultural extension services are not uniform among districts.

The extension services to farmers in Indonesia are basically provided by PPLs of district agricultural agencies, who are to guide and serve farmers through farmers' groups in their working area. PPLs are deployed by sub-district basis to BPPs.

The number of PPLs assigned to BPP in the project sub-district is 5 of which 2 PPLs are deployed in and around the Scheme. However, the BPP office in the sub-district has not been established and activities of PPLs are constrained, as well, due to limitations of transportation, extension materials & equipment and operation funds. The weaknesses or problems involved in the current extension services are:

- Limitation of funds for implementation of extension activities, insufficient number of extension staff and; limited capabilities of extension staffs especially on post-harvest and marketing issues, and
- Coordination & collaboration of extension agencies and agriculture services offices yet to be established to introduce holistic approaches for extension.

## 1.4.10 Agricultural Facilities and Machinery

The numbers of agricultural facilities and machinery including rice mills, tractors, water pumps, threshers, paddy dryers etc. possessed in the project sub-district are shown in Table B-1.4.1. There will be a shortage in the availability of hand tractors when land preparation works of all the paddy fields in the Scheme are to be carried out by machinery, which will result in prolonging the planting season of paddy in the area. The capacity of rice mills in and around the Scheme is sufficient to meet milling requirements in the areas as such requirement is mostly for family consumption and most of the paddy is marketed without husking.

#### 1.4.11 Agricultural Development Constraints

The major agricultural development constraints identified in the Scheme include;

- Shortage of irrigation water supply both in wet and dry season,
- Poor land drainability, especially in rainfed paddy fields,
- Existence of a large extent of long unused fallow lands,
- Land use conversion to oil palm and decrease of food crop farmers; may have resulted in labor shortages and lands that have long laid fallow,
- Recommended farming practices not yet fully adopted due to various reasons,

- Rat infestation, especially in rainfed paddy fields located close to fallow lands,
- Limited activities of KTs and other farmer organizations,
- Insufficient extension services; lack of facilities and equipment (BPP), insufficient capability of extension staff especially in post-harvest & marketing aspects, limitation of operational funds & transportation and limited coverage of extension services and activities of PPLs, and
- Low intensity of farm roads.

## 1.5 Institution

(1) District Government Authorities

The Asahan District Government, under the control of Regent (*Bupati*), is composed of one secretariat, 24 internal units and 17 external units, having 10,372 civil servants as a whole. These civil servants consist of one first rank officer, 10 second rank, 87 third rank and 329 fourth rank officers as management staff and 9,945 rank-and-file staff. The educational background of civil servants is that the majority (55%) has graduated from senior secondary school followed by diploma graduates (22%) and university graduates (11%).

Revenue and expenditure condition of Asahan District Government for the last three years from 2000 to 2002 is as summarized below.

Fiscal Year	Revenue (Million Rp.)	Expenditure (Million Rp.)	
2000	119,214	149,189	
2001	275,103	307,505	
2002	329,108	329,285	

**Revenue and Expenditure** 

Development expenditure as one component of the above expenditure was Rp.52,082 million in 2000, Rp.96,744 million in 2001 and Rp.98,310 million in 2002. The genuine revenues of Asahan District Government amounted to Rp.14,300 million in 2002. Actual receipts and expenditures of Asahan District Government in 1999/00 and 2000 are shown in Table B-1.5.1.

(2) Water Resources and Irrigation Sector Authority

In Asahan District, water resources and irrigation sector administration is under the jurisdiction of the Settlement and Regional Infrastructure Services (Dinas

*KIMPRASWIL*). This organization is composed of five Sub-Services, one Division and five branch offices as shown in Figure B-1.5.1.

In Water Resources Sub-Services (*Sub Dinas*), there are four sections and one bureau to handle administration activities with 75 staff in total. This Sub-Services unit is responsible for management of 22 public irrigation schemes including the Padang Mahondang irrigation scheme. Among 22 irrigation schemes, there are nine technical irrigation schemes commanding 13,627 ha, 12 semi-technical irrigation schemes covering 11,991 ha and 1simple irrigation scheme of 3,231 ha. Budget utilized by water resources and irrigation sector amounted to Rp.988 million in 1999/00 and Rp.428 million in 2000. The share in the development expenditure is 3.9% in 1999/00 and 1.7% in 2000.

The Asahan Water Resources Sub-Services office is closely coordinated with Bah Bolon – Asahan Water Resources and River Basin Management Unit (*Balai* PSDA/UPT) which is a branch office of PWRS North Sumatra covering Simalungun and Asahan Districts as well as Pematang Siantar and Tanjung Balai Municipalities, especially concerning water resources development planning aspect. In accordance with the framework of water resources development policy as shown in Figure B-1.5.2, any proposal of water resources sector development from Asahan District Government is to be reviewed by *Balai* PSDA/UPT Bolon – Asahan. Based on review result, recommendations for implementation are to be fed back to the district government.

(3) Water Users' Association

For Padang Mahondang irrigation scheme, provincial and district governments set up the target to establish two WUA in the registered area of 3,231 ha. One of the target WUA was established in May 1993 and approved by *Bupati* in June 1993. Since then, however, its performance has been dormant due to non-functional irrigation system so that there remain only 26 members at present in WUA Padang Mahondang. Of course no representative and board member of director is available. The monitoring and evaluation record on WUA performance made by *Balai* PSDA/UPT Bolon – Asahan reveals that WUA Padang Mahondang is recognized as "Not yet developed".

The followings are major items pointed out by face-to-face interview respondents consisting of eight WUA member farmers and two non-members based on the rapid rural appraisal method:

- This scheme was initially developed on the facility-oriented basis without paying any attention to beneficiary farmer's needs resulting in that very limited number of farmers were interested in irrigation water since the

beginning;

- WUA was also established according to top-down direction;
- No irrigation water is distributed for the dry season cropping because irrigation system does not function totally from intake to tertiary block;
- During the wet season, irrigation water supply is not a critical issue as paddy can grow depending on rainfall;
- Even though WUA membership fee is stipulated at 25 kg of dry paddy per 1 ha for one crop season in the article of WUA, nobody wants to follow this rule because no merit can be expected from participation to WUA due to no guarantee of irrigation water supply;
- Operation and maintenance works at the tertiary level are voluntarily carried out by a limited number of farmers in a part of the irrigation area; and
- To reactivate WUA and encourage non-member farmers to participate in or establish WUA, function recovery of irrigation system is prerequisite in this area and further betterment of drainage condition is preferable.
- (4) Federation of WUA

In response to administrative instruction by Ministry of Home Affairs, *Bupati* of Asahan District Government has promoted to organize the existing WUA into a federation in the respective irrigation schemes. In the service area of *Balai* PSDA/UPT Bolon -Asahan, a total of 13 WUA Federation (FWUA) was established and approved by *Bupati* as of January 2001. Although this promotion backed up by the World Bank is in line with PKPI based on Government Regulation No.77/2001 on Irrigation, action actually taken is obviously depending on top-down system. Therefore, the article of FWUA is signed by the chief of village (*Kupara Desa*), not the representative of member WUA. In some cases, no consultation was obtained from representatives of member WUA.

## CHAPTER 2 BASIC CONDITIONS IN FORMULATING REHABILITATION PLAN

## 2.1 Irrigation

## 2.1.1 Rehabilitation Plan for Irrigation Facilities

## (1) Purposes of Rehabilitation

The rehabilitation plan will be based on the field investigation results and the discussions made with the officials of the provincial government concerned and the project management office as follows:

- 1) To provide an intake structure to draw stable irrigation water throughout the year,
- 2) To prevent inflow of sediment into the canal from the river,
- 3) To improve and introduce a technical irrigation network system,
- 4) To extend the irrigation command area with irrigation facilities,
- 5) To design diversion/turnout structures by providing water measurement devices for the introduction of an appropriate water management technology,
- 6) To provide such infrastructures as inspection roads and farm roads for O/M of irrigation facilities and future mechanized farming, and
- To provide project facilities such as a site operation houses (50m²), vehicles, motor cycles, and office equipment for the project office.
- (2) Criteria applied for Facilities Design

Design of facilities to be rehabilitated is based on the "Irrigation Design Standards" (from KP-01 to 13) prepared by the Ministry of Settlement and Regional Infrastructure (former Ministry of Public Works) in December 1986. In evaluating rehabilitation of irrigation facilities, the "Technical Guideline for Rehabilitation and Upgrading, Irrigation Networks" prepared in August 1999 is basically applied.

## 2.1.2 Assessment of Inventory Survey Results

## (1) Number of Facilities

According to the survey results, there are 1 free intake (diversion weir) and 4 irrigation canals with a total length of 14 km, consisting of 1 main canal and 3 secondary canals. The number of related structures on the irrigation canals is 25 in total, consisting of 8 on the main canal and 17 on the secondary canals. The inspection roads are partially provided; however, they are almost un-trafficable along both the main and secondary canals.

Facility	Number	Length (km)	No. of Structures	
Intake	1	Free intake from	1	
	1	Asahan River	1	
Main Canal	1	3.575	8	
Secondary Canal	3	9.225	17	

**Features of Irrigation Facilities** 

The main and secondary canals are unlined. The structures on the irrigation canals are made of stone masonry except bridges that are of concrete construction.

(2) Structural Conditions of Facilities

On the basis of the results of the investigation, the conditions of the structures have been assessed and classified, by the state of rehabilitation into the following four categories:

- A: Functioning well, no rehabilitation is needed.
- B: Partially damaged/deteriorated, minor rehabilitation is needed.
- C: Not functioning well, large scale rehabilitation is needed.
- D: Seriously damaged, replacement or reconstruction is needed.

As a result of evaluation, conditions of all the structures are classified into category D, because of poor construction and/or deteriorated due to no operation for a long time since the end of the 1990s.

(3) Irrigation and Drainage Condition

The land use condition in the project areas, based on rough surveys and interviews with the *Balai* and farmers are as follows:

- (a) Soil conditions at eastern lower part are found to be unsuitable for paddy cultivation, and
- (b) Lower part land less than El. 5 m is swampy, poorly drained and inundating during the rainy season.
- (4) Maximum Irrigable Area

Based on the existing irrigation map prepared by the *Balai* PSDA/UPT Bolon -Asahan and the discussions with PWRS and the *Balai* regarding the area for irrigation, the maximum irrigable area is determined to be 2,631 ha in case that the water source availability is sufficient. Through the water balance study mentioned in Chapter 3, the irrigable area of 2,631 ha is verified and determined as the subject area.

## 2.2 Agriculture

The basic concepts applied for the formulation of the agriculture plans for the present Study are as enumerated below.

- Formulation of agriculture plans placing emphasis on paddy production envisaging contribution to the food security in Indonesia and to introduce a double cropping of paddy as a basic cropping pattern to the greatest possible extent; to which the general consensus of the beneficiaries in the current irrigated fields have been obtained at the public consultation meetings of preliminary nature held during the Phase II Study,
- 2) Tree crop planted land is excluded from the target area of the present rehabilitation plan (Farmers intension to be assessed in detail in further studies to follow),
- 3) Irrigation agriculture performances and experiences in the advanced schemes among the target schemes of the Phase I Study in the province are to be fully taken into consideration in the formulation of the agricultural plan,
- 4) The plan envisages improvement of crop productivity and realization of increase of cropping intensity through the efficient use of irrigation water,
- 5) The current agricultural status, including crop selection, cropping schedule, cropping pattern and cropping intensity in the Scheme and also the past records shown in Table B-1.4.2 should be dully assessed and taken into planning so that the formulated plans will be sustainable for beneficiaries intentions and capabilities, and
- 6) Major constraints for the attainment of the agriculture development targets are to be dully addressed to the greatest possible extent in the agriculture extension services strengthening.

## 2.3 Institutional Strengthening Concept and Target

The current situation of WUA's performance in the scheme can be described as "Not developed yet". The main reason is the existing physical condition of the irrigation system under which no sustainable irrigation water supply can be guaranteed to farmers according to their requirements. Therefore, full recovery of the irrigation system's function is a precondition to encourage farmers to activate the existing WUA as well as to accelerate establishment of new WUA and participate in these new WUA in non-WUA tertiary blocks. In this regard, the basic concept for promoting WUA establishment in Padang Mahondang irrigation area is to raise farmers' awareness to the necessity of WUA establishment as well as the role, function and activities of WUA in parallel with implementation of irrigation system rehabilitation works.

Another concept for institutional strengthening is to enable officials of the Asahan District Government to understand and practice the new irrigation management policy and also to improve the capacity of organization units involved in the irrigation management and those staff capabilities in line with the new irrigation management policy.

The target of institutional strengthening is to establish WUA in the service area of each tertiary system of the scheme when its function is fully recovered.
# CHAPTER 3 DEVELOPMENT PLAN

# **3.1 Determination of Irrigation Area**

(1) Data and Information used for the Formulation of the Rehabilitation Plan

Data and information used for the formulation of the rehabilitation plan are as follows:

1) General topographic map

National Geographic Bureau (Scale: 1/50,000, 1981)

Peta Luasan Daerah Irrigashi Dan Rawa Caban Dinas P.U. Pengairan Asahan (Scale: 1/250,000)

- Meteorological and hydrological data Meteorological records at the Medan meteorological station Discharge record of the Asahan River at the Pulau Raja site
- 3) Design references

Master Plan Study on Lower Asahan River Basin Development (JICA, 1990)

Design Report on Lower Asahan River Flood Control Project (DGWRD, 1990)

Inventory Survey Report of the Existing Facilities (JICA Team, 2003)

(2) Project Area

The registered area of the scheme is 3,231ha. The target area had been almost entirely developed as paddy field in the past, except for oil palm planted land. The area of oil palm land is estimated at approximately 600 ha. Taking into account the said conditions, the target area for the present development plan is determined to be 2,631 ha by excluding oil palm planted land from the project area as stated in Chapter 2 and as shown below.

Ū	
Registration Area	3,231 ha
Tree Crop Land (oil palm)	600 ha
Project Area	2,631 ha

Project Area

# (3) Assessment of Water Demands in the Field

The irrigation water requirements have been estimated based on a planning guideline prepared by MOSRI. Consumptive use of water has been estimated on the basis of the modified Penman method proposed by FAO. A percolation rate of 2

mm/day is applied. The water requirement of land preparation for paddy is assumed to be 250 mm. The overall irrigation efficiency is assumed to be 60%.

On the conditions and assumptions stated in (2) and above, the unit diversion irrigation water requirement for paddy is estimated at 1.16 liters/sec/ha (in May and November), and details are shown in Table B-3.1.1 to B-3.1.3.

(4) Confirmation of Available Water from the Asahan River

Based on the calculation results stated above, the intake discharge is estimated at Q =  $3.157 \text{ m}^3$ /s for the maximum irrigation area of 2,631 ha. The average runoff of the Asahan River is 112 m³/s, and probable runoff expected 4 out of 5 years is estimated at 70 m³/s, water demand for the project area will be satisfied by the river runoff.

# **3.2 Proposed Project Works**

### **3.2.1** Conditions of Existing Facilities

(1) Free Intake

The existing free intake is not functioning and hence it is completely out of service due to the following conditions/reasons:

- (a) The river water level of the Asahan River during the dry season is lower than the required intake water level and no irrigation water can be drawn off the river.
- (b) Due to the large fluctuation in river water level and lack of facilities such as trash racks, and poor design of location of the intake, the approach channel of intake has been closed with sand and debris.
- (c) Due to poor maintenance of the approach channel of the intake, large quantities of sediments have been piled and hence the water inflow to the intake has been stopped.

### (2) Irrigation Canal and Related Structures

Existing irrigation canal is unlined earth canal 1-2 m wide. Due to poor maintenance, many sediments and trees/grasses are found inside of the canal. As a result, canal flow is blocked off. In addition, collapse of canal slopes are found along the entire length. Related structures, such as division structure, off-take structure, drainage culvert, and bridge have been damaged or are out of order.

(3) Inspection Road

Conditions of inspection roads and other related facilities are very poor and almost impassable through the year.

# (4) Possibility of Rehabilitation of Existing Facilities

As the existing conditions of the irrigation facilities could be described as almost out of order as stated above, large-scale rehabilitation or replacement will be required. The design capacity of existing structures is determined to be sufficient to irrigate 700 to 1,000 ha. Therefore, the rehabilitation and/or upgrading of the existing facilities seem to be hardly possible. Therefore, it is proposed to newly design the system with a development area of 2,631 ha as shown in DRAWINGS attached at the end of this report.

Prior to the design of irrigation facilities, the following considerations are made:

- (a) Location of intake should be relocated upstream from the existing site.
- (b) Type of diversion structure shall be of free intake type and diversion weir type (fixed or barrage type) shall not be considered because of high construction costs and the effect of back water on the upstream.
- (c) Several countermeasures for the prevention of sediment inflow to the intake and stable intake water throughout the year should be considered for the selection of the intake site and the design purpose.
- (d) Canals and related structures are to be designed for irrigation with an area of 2,631 ha.
- (e) Technical level of facilities is to be raised to technical irrigation. (Existing grade is semi-technical or simple level)
- (f) Drainage canals in the northeastern area should be provided with an appropriate capacity.

## **3.2.2** Irrigation Diagram

Prior to the design of irrigation facilities, the irrigation diagram was prepared for the irrigation command area of 2,631 ha. The proposed irrigation diagram is shown in DRAWINGS attached at the end of this report.

## **3.2.3** Design of Irrigation Facilities

## (1) Diversion Structure

To determine the type of diversion structure, the following countermeasures are considered, taking into account the conditions of the existing structure:

- (a) To prevent inflow of bed load from the river
- (b) To keep water intake stable throughout the year
- (c) Required intake level at intake site is set at El. 13.0 m

The site selection is based on the available topographic map and the profile of the Asahan River that was prepared in 1990 during the detail design of the Asahan

flood control project. The bottom elevation of the existing free intake is to be set at El. 11.50 m as a result of the survey by the JICA Team.

The gradient of the Asahan River is estimated at 1/3,000 and the river bed elevation at the existing intake point is about El. 9 m. It seems to be very difficult to draw water off the river without intake of much bed level and the river bed elevation is only 2.5 m.

To avoid such design failure, the following design considerations are made:

- (a) To select the location of the proposed intake for drawing water off the river during low level period, the river bed elevation is to be El. 10 m, which is situated about 3 km upstream from the existing intake.
- (b) To avoid inflow of bed load directly into the canal, a sand trap pond is to be provided in front of the intake gate. A gap of 1 m between the sand trap pond and the intake bed level is required.
- (c) To avoid inflow of bed load during medium to high water level, the width of the intake should be as great as possible.
- (d) In addition to the above design considerations, a settling basin after the intake is considered.

Drawing of intake is shown in DRAWINGS attached at the end of this report.

(2) Irrigation Canal and Related Structures

Based on the proposed irrigation network, design of irrigation canals and related structures are made. Summary of canal and related structure are as follows.

Canal	Number	Length (km)	Related Structure (nos.)
Main	1	9.0	12
Secondary	4	13.0	Not designed

Summary of Irrigation Canal and Related Structures (New construction)

The list of irrigation canals and the related structures on the main canal are shown in Table B-3.2.1 and the hydraulic dimension of the main canal is shown in Table B-3.2.2.

Reference drawings of intake and canals are shown in DRAWINGS attached at end of this report.

(3) Drainage Canals and Facilities

Design of drainage canals and facilities has been made at a preliminary level and applied to the cost estimate.

# (4) Work Quantities

The work quantities have been calculated based on the development plan. Work quantities for each structural item have been calculated as shown in Table B-3.2.3. Regarding the calculation of work quantities of the secondary canals, estimate of work quantities has been made in proportion to the area of the secondary system.

# 3.3 Agriculture

# 3.3.1 Land Use Plan

In the agricultural land use plan, the conversion of the current rainfed fields into irrigated fields and the development of the entire project area into irrigated paddy fields (2,440 ha) are planned as shown in Table B-3.3.1 and as follows;

Land Use Category	Present (ha)	With Project (ha)	Increment (ha)
Irrigated Paddy Field	724	2,440	1,716
Rainfed Paddy Field	1,907	-	- 1,907
- Currently Used	436	-	- 436
- Long Fallow Land	1,471	-	- 1,471
Right-of-ways *1	-	191	191
Project Area	2,631	2,631	0

Land Use Plan

Note *1: Right-of-ways assumed to be 10% of rainfed paddy field

# **3.3.2** Planned Cropping Pattern and Schedule

Under the present Study, the selection of crops to be introduced in the planned cropping pattern in the Scheme has been made basically observing the currently prevailing cropping pattern and cropped area in the area and the past records on the same, which represents farmers intention and capabilities to a certain extent. Based on such approach, the crop selection has been made as follows:

- (a) Paddy has been selected as a main crop in the planned cropping pattern as stated in the development concepts (Chapter 2) and as farmers' preferences for a crop and the volume of market demands. However, the introduction of double cropping of paddy is limited to 50% on the basis of the past cropping records in the Scheme and considering the availability of labor force³.
- (b) Maize is selected as a representative palawija to be introduced in the planned cropping pattern since it is the most common palawija currently cropped in and around the Scheme. Further, from the demand/supply

³ Sufficient number of labor forces are available in the project *desas*, but part of them are worked as estate labor. Possibility to count them as labor forces for irrigation farming in the Scheme is to be confirmed.

condition and profitability of crops, hybrid maize appears to be the most promising crop among palawija. Similarly, maize is the most promising palawija in terms of national economy. The palawija area has been set at 10% of the paddy field in the dry season.

The planned cropping pattern and schedule have been formulated on the basis of: i) current cropping pattern & schedule in the Scheme and ii) recommended cropping schedules of the District Agriculture Office, iii) climatic conditions and iv) water balance study as shown in Figure B-3.3.1 and summarized below.

Season	Pattern (Crop & Intensity)	Schedule
Wet Season	Paddy (100%)	Mid. Oct end Nov. ~ early Jan early Mar.
	Paddy (50%)	Beg. May - mid. June ~ early Aug Mid. Sep.
Dry Season	Palawija (maize; 10%)	Mid. Jan end Jan. ~ mid Apr end Apr.
Annual	Paddy - Paddy/Palawija (160%)	

Planned Cropping Pattern & Schedule

# 3.3.3 Planned Cropped Area and Cropping Intensity

In accordance with the planned cropping pattern and the selected crops discussed earlier, the target cropped areas and cropping intensities in the scheme under the present Study are planned as shown in Table B-3.3.1 and summarized below.

Cron	Wet Season		Dry Season		Annual	
Стор	Area (ha)	Ratio (%)	Area (ha)	Ratio (%)	Area (ha)	Ratio (%)
Paddy	2,440	100	1,220	50	3,660	150
Palawija (maize)	-	-	244	10	244	10
Total	2,440	100	1,464	160	3,904	160

Planned Cropped Area & Cropping Intensity (%)

The increase of annual cropped area of some 2,300 ha of paddy and about 130 ha of palawija from the present level is planned under the Study as shown in Table B-3.3.1. Further, the increase of paddy cropping intensity of 100%, the same of palawija cropping intensity of 6% and the same of overall intensity of 105% is envisaged.

# 3.3.4 Target Crop Yields and Crop Production Plan

Target yields of paddy and palawija are estimated based on yield levels attained by the existing farmers in the Scheme, yield levels in advanced irrigation schemes in Asahan District and information on potential yield levels provided by PPLs and also considering the poorly drained land conditions of current rainfed fields as shown in Table B-3.3.1 and summarized below.

Cropping Season/Crops	Present Yield	Target Yield	Increase
In Current Irrigated Field			
- Wet Season Irrigated Paddy	4.0 t/ha	5.0 t/ha	1.0 t/ha
- Dry Season Irrigated Paddy	4.0 t/ha	5.0 t/ha	1.0 t/ha
In Current Rainfed Field			
- Wet Season Paddy	2.0 - 2.5 t/ha	4.0 t/ha	1.5 - 2.0 t/ha
- Dry Season Paddy	-	4.5 t/ha	-
Palawija (maize) ^{*1}	3.0 t/ha	5.0 t/ha	2.0 t/ha

Target Yields under the Study

Note *1: Target yield --- hybrid maize; Present yield --- composite maize

The target yield of 5.0 t/ha is an increase of 1.0 t/ha from the present yield level of 4.0 t/ha in irrigated fields. The target yield of 4.0 & 4.5 t/ha is an increase of 1.5 to 2.5 t/ha from the present yield of 2.0 to 2.5 t/ha in rainfed fields as shown in Table B-3.3.1.

On the basis of the target crops yields and the planned cropping pattern, the with-project crop productions are estimated as shown in Table B-3.3.1 and summarized in the following table.

Crop	Present (ton)	With Project (ton)	Increment (ton)
Paddy	3,859	16,088	12,229
Palawija	345	1,220	875

**Planned Crop Production** 

As shown in the table, the production increase of some 12,200 tons of paddy and 900 tons of palwija (maize) are estimated under the with-project condition.

# 3.3.5 Crop Budgets

The planned crop budgets estimated for irrigated paddy and palawija (maize hybrid) are estimated as shown in Table B-3.3.2 and summarized below.

Crops	Crop Season	Yield (t/ha)	Gross Return (Rp. 000)	Production Cost (Rp. 000)	Net Return (Rp. 000)
Irrigated Paddy	Wet/Dry	5.0	6,500	2,490	4,010
Inni asta d Da d da. *1	Wet	4.0	5,200	2,170	3,030
Irrigated Paddy	Dry	4.5	5,850	2,410	3,440
Maize (hybrid)	Dry	5.0	5,500	2,240	3,260

Planned Crop Budget per Ha

Note *1: Newly irrigated field under the project

### **3.3.6 Farm Economy**

The farm economic analyses under the present Study have been made to examine capacity-to-pay or possible contribution of O&M costs by beneficiary farmers after

the project and was based on 1 ha of irrigated paddy field or rainfed paddy field by estimating net farm income from the fields as discussed earlier in Section 1.4.8.

The results of the farm economic analyses thus made are summarized below:

Land Liza Catagony	Net Fa	rm Income (Rp.	Cropping Pattern	
Land Use Calegory	Present	With Project	Increment	Assumed
Irrigated Paddy Field	4,840	6,340	1,500	$\mathbf{D}_{2}$ 11 (11.2) and 11 (0.51.2)
Irrigated Paddy *1	1,750	5,080	3,330	Paddy (Ina) - paddy (0.5na)
Irrigated Paddy *2	1,320	5,080	3,760	/palawija (0.1na)

Estimated Net Farm Income from 1ha of Field

Note *1: Paddy field in current irrigation command area being under rainfed condition *2: Newly irrigated field from rainfed field

# 3.3.7 Agriculture Extension Services Strengthening Plan

# (1) Constraints for Development

Major constraints for the attainment of the set agriculture development targets, which are to be duly addressed to the greatest possible extent in the agriculture extension services strengthening (AESS) under the present plan, include;

- 1) Farmers' Groups (KTs) yet to be empowered to a great extent, especially toward the introduction of agri-business oriented farming activities in collaboration with group members and groups (Constraints 1),
- Insufficient extension services; insufficient capabilities of agriculture services & extension staff, especially in post-harvest & marketing aspects, lack of facilities and equipment (BPP), limitation of operational funds & transportation and limited coverage of extension services and activities of PPLs (Constraints 2),
- 3) Farmers in newly irrigated fields have no or limited experiences in irrigated paddy cultivation; intensive technical guidance and support for these target groups are essential in the fields of irrigated paddy production, tertiary level and on-farm water management (Constraints 3),
- 4) Technical development on irrigated paddy production in areas currently under poorly drained conditions, especially in long fallow land (Constraints 4),
- 5) Addressing the shortage of hand tractors for land preparation is slated under the with-project condition; strengthening of UPJA is essential from the initial stage of the rehabilitation plan in order to attain the expected project benefits from an early stage of the development (Constraints 5),
- 6) Participatory approaches for development yet to be introduced; to these constraints a mass guidance or campaign, workshop and farmer/farmers' groups training or empowerment will be essential (Constraints 6), and

- 7) Other constraints include: i) serious rat infestation in rainfed areas, ii) recommended farming practices not yet adopted and iii) poor or no irrigation water management due to limitation of water supply; all to be addressed through the ordinal extension services activities.
- (2) Agriculture Extension Services Strengthening (AESS)

The extension services strengthening programs formulated to meet the requirements discussed in the section above are presented in Table B-3.3.3 and summarized as follows;

Institutional Strengthening Package Program (Constraint 2)

- Establishment of Regional & Sub-regional Task Force Team for AESS
- Staff empowerment program (capacity building of regional & sub-regional & extension staffs)
- Strengthening of extension facilities

Farmer Organizations Empowerment Package Program (Constraint 1 & 5)

- Empowerment of KTs toward agri-business oriented groups.
- Empowerment & formation of UPJA

Technical Guidance Package Program (Constraint 3 & 4)

- Technical development, technical demonstrations, farmer/farmers' group training, study tours, field schools etc.

Participation Enhancement Package Program (Constraint 6)

- Workshops, mass guidance & campaigns etc.

Under the present plan, the provision of farm inputs or farm credit has not been accommodated since the requirements for the same could not be estimated and the justification of dual investments of public funds to the target scheme in addition to a heavy investment for rehabilitation works is doubtful.

The implementation of these strengthening programs should be started from the commencement of the construction works and continue for the period of at least 5 years or up to 3 years after the completion of the construction works. The proposed implementation schedules for AESS are shown in Table B-3.3.1 and Table B-3.3.4 in detail. The overall program costs are estimated at Rp. 530 million as shown in Table B-3.3.4.

# 3.4 Institutional Strengthening Plan

To realize the targets, the institutional strengthening plan for the scheme consists of two programs in the initial stage, i.e. institutional capacity building and staff capability improvement program, and WUA establishment acceleration program. After WUA is established, step-upped programs will be implemented as follow-up activities of WUA. These are WUA strengthening program, FWUA and MWUA initial setting-up program, on-the-job training program on operation and maintenance of tertiary irrigation systems, and a guidance to set and collect irrigation management fees.

(1) Institutional Capacity Building and Staff Capability Improvement Program

This program contains two components. One is to enable irrigation officials of the Asahan District to understand and practice the new irrigation management policy. The other is to improve the capacity of organizational units of the Asahan District Government involved in irrigation management and those staff capabilities in line with the new irrigation management policy.

The first component will be done through undertaking a series of seminars and workshops to be facilitated by the central government after the legal framework for water resources and irrigation management is completed. Its program formulation and budget arrangement will be also made by the central government.

The second component should reflect the above nationwide dissemination of the new irrigation policy by the central government. This component will be done as follows:

- To evaluate the capacity of district/municipal government authorities and the capability of those staff involved in irrigation management activities;
- To identify needs for improving institutional capacity and staff capability to cope with the new irrigation management policy as well as supporting requirements for fulfillment of such needs through technical assistance by central/provincial government; and
- To formulate implementation programs on institutional capacity building and staff capability improvement for the respective district/municipal government authorities involved in irrigation management.

Regarding budget arrangements for implementing these programs, the main source is the Asahan District Government budget to cover the cost for institutional capacity building and staff capability improvement, while the supplemental source is provincial government budget to cover the cost for implementation of the supporting menus.

In implementing the institutional capacity building and staff capability improvement program, a group of trainers will be organized by inviting well experienced specialists from consultants, NGOs and universities. Monitoring and supervision of the program implementation should be carried out continuously by relevant organizational units at the provincial level throughout the program implementation stage with periodical reporting on performance and impact of the program implementation.

(2) WUA Establishment Acceleration Program

To accelerate WUA establishment in the respective tertiary block of the scheme in order to ensure participatory irrigation management, the program is to be implemented based on the following steps:

- hold socialization meetings and workshops to invite representatives and members of Farmers' Groups that are available in non-WUA tertiary blocks for the purpose of accelerating WUA establishment and promoting participatory irrigation management;
- confirm farmer's awareness to establish and participate in WUA as well as needs for guidance about procedures and practices of WUA establishment;
- formulate a guidance menu list, and make a package program of guidance menus to accelerate WUA establishment in non-WUA tertiary blocks to which irrigation water is distributed; and
- estimate unit cost of each guidance menu and total cost of the package program.

Budget to implement the package program for WUA establishment acceleration is to be covered by the project financing.

In implementing the WUA establishment acceleration program before starting rehabilitation works, consultants, NGOs and/or universities are to be recruited as facilitators and supporters in the irrigation command area.

(3) WUA Strengthening Program

The WUA Strengthening Program will be conducted based on the following steps:

- hold WUAs' awareness raising workshops to reconfirm weak points elaborated from recapitulating data on the M&E record on WUA's performance;
- identify technical assistant requirements for improving WUA's capacity to manage organization, capability to conduct operation and maintenance of tertiary irrigation systems, and/or activities to set and collect WUA member's fees;
- formulate a technical assistant menu list and make a package program of technical assistance menus according to WUA's needs to improve its capacity, capability and/or activities; and
- estimate unit cost of each technical assistant menu and total cost of the package program.

Budget for implementing the package program for strengthening WUA is to be covered by the project financing.

In implementing the WUA strengthening program before starting rehabilitation works, consultants, NGOs and/or universities are to be recruited as facilitators and implementers in the irrigation scheme area.

# (4) FWUA and MWUA Initial Setting-up Program

The FWUA and MWUA initial setting-up program will be conducted based on the following steps:

- imbue the local society with the necessity of setting up representative groups of WUA to cope with the participatory irrigation management policy if FWUA/MWUA has not been established;
- formulate a guidance menu list, and make a package program of guidance menus to support initial setting-up of FWUA/MWUA according to the current situation in the scheme; and
- estimate unit cost of each guidance menu and total cost of the package program.

Budget for implementing the initial setting-up program of FWUA and MWUA is to be covered by the project financing.

In implementing the initial setting-up of the FWUA and MWUA program, consultants, NGOs and/or universities are to be recruited as facilitators and supporters in the irrigation command area.

(5) Training Program on Operation and Maintenance of Tertiary Irrigation Systems

This training program will be done after completing the rehabilitation works of the irrigation systems. For this purpose, however, preparation of training manuals and programs should be done in parallel with the final stage of rehabilitation works. Also the concept of training programs should synchronize the irrigation water allocation plan to tertiary blocks as well as the cropping pattern and planting schedule in the irrigation scheme.

As this training will be done as one of the rehabilitation project components, a consultant under the project manager is to be responsible for preparing training manuals, formulating training programs, estimating training costs and implementing training programs. To ensure effective and efficient implementation of training on operation and maintenance of tertiary irrigation systems, NGOs and other volunteers will be encouraged to become involved in training activities at the

field level in addition to the project staff, District Government officials and the consultant.

Budget arrangements based on the consultant's cost estimate are the responsibility of the project manager.

(6) Guidance Program for Setting and Collection of Irrigation Service Fees

In parallel with preparation of the guidance manuals, the following points will be considered:

- identify issues on book keeping systems, fee determination methods, payment forms, fee collection systems and payment schedules;
- identify issues affecting the fee allocation system to cover administration, operation, maintenance and other miscellaneous costs;
- identify incentives to members;
- formulate a guidance menu list and a package program of guidance menus for setting and collection of irrigation water service fees; and
- estimate unit cost of each guidance menu and total cost of the package program.

Budget arrangements based on the consultant's cost estimate are the responsibility of the project manager.

In formulating and implementing the guidance program for setting and collection of irrigation water service charges, special attention will be paid to recruit a consultant with specific experience matching with the above terms.

(7) Cost Estimate for Institutional Strengthening Plan

The overall cost for the proposed institutional strengthening plan in the above is estimated at Rp. 335 million in total. The breakdown of estimated cost is as follows:

- Rp. 10 million for Institutional capacity building and staff capability improvement program for Water Resources Sub-service of Asahan District *KIMPRASWIL* based on unit cost of Rp. 5 million and 2-time implementation;
- Rp. 50 million for WUA establishment acceleration program targeting beneficiary farmers in non-WUA tertiary blocks based on unit cost of Rp. 20,000/ha and the existing WUA's coverage area of 2,507 ha;
- Rp. 29 million for WUA strengthening program to reactivate the existing WUA Pahang Mahondang based on unit cost of Rp. 40,000/ha and WUA's coverage area of 724 ha;
- Rp. 65 million for FWUA and MWUA initial setting-up program based on

unit cost of Rp. 20,000/ha and the proposed recovery area of 3,231 ha;

- Rp. 116 million for training program on operation and maintenance of tertiary irrigation systems based on unit cost of Rp. 36,000/ha and the proposed recovery area of 3,231 ha; and
- Rp. 65million for guidance program for setting and collection of irrigation service fees based on unit cost of Rp. 20,000/ha and the proposed recovery area of 3,231 ha.

# 3.5 Environmental Aspects

Environmental assessment is now accepted as key part of development planning and is as important as economic analysis in project evaluation. In this Study, however, such assessment has not yet been conducted, as the objective of the Study is to recover the function of the existing infrastructures. Nonetheless, environmental assessment for the rehabilitation project is no less important than that of a new development project as far as environmental impact exists. In this regard, it is proposed to carry out environmental assessment prior to the implementation of the project on the basis of the following law and regulation:

- Law No.23/1997 concerning environmental management, and
- Government Regulation No.27/1999 concerning environmental impact assessment

## CHAPTER 4 COST ESTIMATE

#### 4.1 Conditions of Project Cost Estimate

Project costs for the proposed project works including construction cost for rehabilitation, consulting services fee, administration cost (salary for the office staff and expenditures for office management), and costs for institutional and extension service strengthening are estimated on the basis of the following conditions:

- (a) All the civil works of the project will be executed on a contract basis. Contractors will be selected through international competitive bidding.
- (b) Physical contingency of each work is assumed to be 20% in due consideration of the Pre-F/S design level.
- (c) Price contingency is not counted taking into account the short construction period.
- (d) Costs for institutional strengthening and extension service strengthening are assumed to be 2% of the total costs of civil works construction.
- (e) Cost for the consulting services is assumed to be 7% of the costs for civil works and works described in (d) above.
- (f) Administration cost of the project office is assumed to be 2.5% of the costs for civil works and works described in (d).
- (g) Exchange rate used for the estimate is US\$1.00 = Yen 118.9 = Rp. 8,279 as of May 2003, and
- (h) Currency for cost estimate is expressed in Indonesian Rupiah (Rp.)

## 4.2 Project Cost

(1) Direct Construction Cost

The direct construction cost is estimated based on the calculated work quantities of the proposed project works and unit prices of the works. The unit prices are based on those for similar works quoted in recent engineer's estimates of the North Sumatra Province such as PTSL-II Project.

The direct construction cost is estimated at Rp. 43,245 Million (equivalent to US 1,985 per ha or Rp. 16.4 million, A= 2,631 ha). The breakdown of direct construction costs is shown in Table-B.4.2.1 and summarized as follows:

	Work Description	Amount (million. Rp.)
I.	Intake	4,577
II.	Main Canal Works	12,869
III.	Secondary Canal Works	12,866
IV.	Drainage Works	5,147
V.	On-Farm Development	6,216
VI.	Project Facilities	1,570
	Total	43,245

#### **Summary of Direct Construction Cost**

# (2) Other Costs

Other costs are estimated as shown below:

- Costs for institutional and extension service strengthening:	Rp. 865x 1,000
- Cost for the consulting services:	Rp. 3,087x 1,000
- Administration cost of the project office:	Rp. 1,103 x 1,000

(3) Project Costs

Project costs are estimated at Rp. 48.3 billion as shown in the following table:

	Work Description	Costs (million Rp.)
I.	Civil works	43,245
II.	Institutional and extension service strengthening	865
III.	Consulting services	3,087
IV.	Project administration cost	1,103
	Total	48,300

# **Breakdown of Project Costs**

# CHAPTER 5 PROJECT IMPLEMENTATION

## 5.1 General

The implementation of rehabilitation work of the Padang Mahondang Irrigation Scheme is urgently required for the recovery of function of the existing irrigation scheme to cope with progressing deterioration of the facilities. Implementation schedule of the rehabilitation work after the feasibility study is shown in Figure B-5.3.1 and briefed as follows:

- (a) Preparation of Implementation Program (I/P) and budget arrangements,
- (b) Establishment of project office,
- (c) Preparation of detailed design with tender documents including field survey and investigation,
- (d) Tender and selection of contractor(s),
- (e) Execution of civil construction and taking over of completed irrigation scheme, and
- (f) Execution of strengthening program such as institutional and extension services.

## 5.2 Implementation Schedule

### 5.2.1 Schedule on Initiation Stage and Construction Works

(1) Establishment of Project Office

The project office so-called "Function Recovery Project Office" is to be established at Dinas PSDA. Organization and staffing are to be restructured and transferred from other divisions. At the same time, "Function Recovery Forum" is also established. (Details are presented in Chapter 7 of Part 1 of this Report)

(2) Preparation of I/P and Budget Arrangements

Preparation of I/P is to be made by the Dinas PSDA for the submission to DGWR for its approval. DGWR has to make arrangement for budget by means of national fund and/or loan from the international lending agencies.

(3) Preparation of Detail Design

Immediately after completion of budget arrangement and office establishment, the detailed design including field survey and field investigation, and preparation of the tender documents are to be followed. Period for the detail design is estimated to be less than 12 months.

(4) Tender and Selection of Contractor(s)

Tender and its schedule are to be as follows:

- Number of contract: 2 contracts
- Tender call to contract signing: 6 months
- Construction period: 2 years
- (5) Construction and Taking Over

Immediately after the contract signing, the construction is commenced. The construction management works including supervision work and quality control are to be carried out by the construction section of the project office. The completed scheme of the rehabilitation works is to be inspected, and after verification by the authority, the scheme is taken over by the provincial government for the commencement of operation.

## 5.2.2 Strengthening Program

The strengthening programs both institutional and extension service program are commenced with following elements and schedule.

(1) Institutional Strengthening Program

Elements of institutional strengthening program are as follows:

- (a) Institutional capacity building and staff improvement program,
- (b) WUA strengthening program,
- (c) FWUA and MWUA initial setting-up program,
- (d) WUA establishment acceleration program,
- (e) Training for operation and maintenance of tertiary irrigation system program, and
- (f) Guidance program for collection and expense of irrigation management fee.
- (2) Extension Services Strengthening Program

Elements of extension services strengthening program are as follows:

- (a) Formulation of strengthening program,
- (b) Formulation of task force team,
- (c) Formulation of implementation program, and
- (d) Implementation of strengthening program.
- (3) Budgeting and Budget Implementation

In discussing the preparation of budget proposals and implementing of budget to be allocated to the function recovery program, special attention has to be paid to the following key issues related to the modified irrigation management policy in line with the draft of new Law on Water Resources:

- (a) Arrangement of irrigation management responsibility between irrigation water suppliers and water users,
- (b) Arrangement of irrigation management responsibility among government authorities,
- (c) Funding criteria, and
- (d) Mechanism of budget arrangement and utilization

Among irrigation management activities, the responsibility of planning and design works for development, rehabilitation and upgrading purposes is arranged to governments at central and provincial level to assure quality of outputs from these works. Regarding implementation of physical works, it can be considered that the budget availability, staff capability and contractor capacity are crucial factors at district/municipal level. Therefore, it can be considered rational that irrigation schemes commanding more than 1,000 ha (Registered area of the Padang Mahodang Irrigation Scheme is 2,905 ha.) are to be handled by provincial governments in a sense of participatory irrigation management.

## CHAPTER 6 PROJECT EVALUATION

## 6.1 General

The economic evaluation of the present Study has been made to assess the financial and economic feasibility of the rehabilitation plan (the project). The approaches or assumptions applied for the project evaluation are as follows;

- Economic evaluation has been made by estimating project benefits between the without-project and the with-project conditions,
- For the project evaluation, economic internal rate of return (EIRR), financial return per ha, economic benefit-cost ratio (B/C) and economic benefit minus cost (B-C) have been examined,
- For the evaluation, project benefits have estimated based on crop production benefits and indirect or intangible benefits have not been counted,
- To assess the economic viability of the project to possible changes in project costs, project benefits and build-up period, a sensitivity analysis has been made,
- For financial evaluation of the project, the capacity to pay of beneficiary farmers have been analyzed,
- Without-project condition has been assumed to be the same as the present condition as the reliable prediction or estimation of the without-project conditions was not possible and impractical,
- The useful life of the Project was taken as 30 years from project implementation,
- Exchange rate of Indonesian Rupiah (Rp.) to US. Dollar (US\$) was taken to be Rp. 8,279 equivalent to US\$ 1.00 (as of May, 2003), and
  - Constant prices at 2003 level were used in the economic evaluation.

# 6.2 Economic Evaluation

### 6.2.1 Project Costs

(1) Project Costs

The project costs for economic evaluation would consist of i) construction cost, ii) institutional & extension services strengthening costs, iii) consulting services cost, iv) administration cost, v) O&M costs, and vi) replacement cost. The economic project costs have been calculated from the financial project costs by applying the standard conversion factor with 0.90. The economic project costs estimated accordingly are shown in Table B-6.2.1.

# 6.2.2 Project Benefits

(1) Economic Prices of Farm Inputs and Outputs

Economic prices of farm inputs and outputs were estimated in order to evaluate the expected project benefits. Economic prices of trade goods such as rice, maize, soybeans, groundnuts and fertilizers were estimated on the basis of the projected world market prices of these commodities forecast by the World Bank. Non-trade goods were valued at financial prices which were estimated on the basis of current market or farm gate prices. Farm labor was valued at the shadow wage rate of 0.80. The economic prices of farm inputs and outputs applied for the economic evaluation are presented in Table B-6.2.2 and B-6.2.3.

(2) Project Benefits

Only the crop production benefits are assessed as the project benefits as stated earlier. The net project benefits are defined as the difference in net return from crop production between the with-project and the with-out project conditions. The without-project condition has been assumed to be the same as the present condition as stated earlier. The economic crop budgets applied for the estimation of the net return under the project are as presented in Table B-6.2.4 and B-6.2.5. The project benefits expressed as the incremental net production value from crop production are estimated as shown in Table B-6.2.6.

The annual economic project benefits at full development stage (the incremental net production value) have been estimated at Rp. 10.74 billion as shown in Table B-6.2.6 and summarized below.

3		
Net I	Production Value (Rp. mil	lion)
Without Project	With Project	Increment
2,747	13,487	10,740

Economic Project Benefits/Incremental Net Production Value *1

Note *1: At full development stage

The benefits would gradually increase up to the full benefit in the 5th year after the completion of construction works.

# 6.2.3 EIRR, B/C and B-C

The annual economic costs and benefits flows and the results of the economic evaluation (EIRR, B/C & B - C) are presented in Table B-6.2.7 and as summarized below.

#### **Results of Economic Analysis**

EIRR	B/C	B - C
17.3 %	1.65	Rp. 25.0 billion
D/C P D C + 10	0/1. / /	

B/C & B - C at 10% discount rate

## 6.2.4 Sensitivity Analysis

To examine the project economic viability to changes in project cost, project benefits and build-up period, the sensitivity analyses have been made on the four cases as follows.

Case		EIRR (%)
0. No Changes	-	17.3
1. Change in Project Costs	+ 10 %	15.9
2. Change in Project Benefits	- 10 %	15.6
3. Benefit Delay	1 year delay	15.0
4.1+2+3	-	12.5

**Results of Sensitivity Analysis** 

#### 6.3 Financial Evaluation

The capacities to pay of beneficiary farmers have been assessed based on the farm budget analyses on 1 ha of paddy field under the with and without project condition, which have been made by applying the results of the farm economic analyses made in Section 1.4.8 and 3.3.6, as shown in Table B-6.3.1 and as summarized below:

	Net Reserve on 1 ha of Paddy Field						
Land Use Category	(C	apacity to Pay: Rp.000))					
	Without Project	With Project	Increase				
Irrigated Paddy Field *1	4,840	5,710	870				
Irrigated Paddy ^{*2}	1,750	4,060	2,310				
Irrigated Paddy ^{*3}	1,320	4,060	2,740				

Results of Farm Budget Analyses on 1 ha of Paddy Field

Note *1: Farmers in current irrigated field.

*2: Farmers in current irrigation command area being under rainfed condition.

*3: Farmers newly irrigated field from rainfed field.

The capacity to pay of beneficiary farmers will increase from Rp. 1.3-4.8 million to Rp. 4.1-5.7 million or the increase of Rp. 0.9-2.7 million under the future with project condition. The increases would enable the farmers to bear their contributions to O&M cost of irrigation system.

### 6.4 Indirect Benefits and Socio-economic Impacts

After implementation of the Project, various indirect benefits and socio-economic impacts are expected as mentioned below.

# (1) Employment Opportunities

The Project would create a demand for farm labors due to the increased farming activity, more intensive use of land and higher agricultural production. In addition, the construction of the Project would increase employment opportunities in the area. During the construction stage, the majority of workers would be unskilled laborers, and most of whom would come from farmers and ordinary laborers in and around the Project area.

# (2) Farmers Income

After implementation of the Project, income of farmers is expected to increase considerably as a direct result of the increase in crop production. Such increase in income would contribute to improving farmers' living standards. Moreover, it is expected that farmers' purchasing power would increase along with improvement of their living standards, and this increased purchasing power would benefit the development of the regional economy.

# (3) Marketing of Farm Inputs and Outputs

Future marketing in the project area is likely to expand as compared with the present condition. With anticipated higher agricultural production, more farm products could be marketed by the farmers and the proportion of sales would also increase relative to consumption. The merchants would have a larger turnover which could increase their incomes.

Marketing functions would not only be influenced by agricultural outputs. It is estimated that when agricultural production develops as a result of the Project, the Project area would be a good market for farm supplies. The farmers need to operate with farm supplies such as tools, equipment and bags. Both ends of marketing channels could, therefore, expect substantial beneficial impacts from the Project.

(4) Food Supply

The incremental production of paddy of some 12,200 tons under the with project condition will directly contribute to the supply-demand balance of rice and the food security in Indonesia.

# (5) Other Effects

Implementation of the Project would certainly lead to changes in rural socio-economy in the area. By the construction of inspection roads along the canals, the local transportation system would also be improved, which will contribute to the improvement of rural socio-economic activities.

# Tables

# Table B-1.1.1 Climate and Hydrological Conditions

#### 1. Monthly rainfall at Malau Estate (mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
149	113	131	141	121	217	186	119	321	285	218	264	2,264
Source:	Irrigation	n office, A	Asahan									

# 2. Preliminary estimated monthly river flow data (m³/s)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
118.6	102.2	116.5	136.4	128.0	97.8	94.1	88.8	102.6	122.7	137.8	107.0	112.7
Note: V	Water level	record at	t upstream	of Kalae	na weir	were preli	iminary c	converted t	o dischar	ge by the	JICA Stu	ıdy Team

## 3. Estimated monthly dependable flow (m³/s)

		jp			~)							
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
70.1	61.9	69.7	79.5	50.8	55.9	47.7	69.0	75.4	89.6	104.0	82.5	71.3

## Table B-1.4.1 Basic Agriculture Conditions of Padang Mahondang Scheme

(1/2)

1.1 Agro-demographic Features in Rural Areas			
Agro-demographic Indicators	Project Sub-district	Project Desa (P. Mahondang)	Asahan District
Proportion of Farm Households to Total Households	51 %	93 %	65 %
Proportion of Farm Households Having Activity in:			
- Food Crops Farming	31 %	56 %	76 %
- Horticulture Crops Farming	5 %	11 %	8 %
- Estate Crops Production	74 %	73 %	18 %
- Working as Farm Labor	96 %	16 %	47 %

Indicators	Project	Project Desa	Asahan
Indicators	Sub-district	(P. Mahondang)	District
Average Farm Land Holding Size/Farm Household	1.48 ha	2.47 ha	0.83 ha
Average Holding Size of Paddy Field/Farm Household	0.33 ha	1.22 ha	0.36 ha
Distribution of Farm Household by Land Holding Size < 0.5 H	a 35 %	-	43 %
Distribution of Farm Household by Land Holding Size $\geq 0.5$ H	a 65 %	-	57 %

Source Asahan Dalam Angka 2002, BPS Asahan; Kecamatan Pulau Rakyat Dalam Angka 2002; PPL Office File Sensus Pertanian 1993, Kantor Statistik Kab. Asahan (% of farm households in district & sub-district)

#### 2. Agriculture Conditions

2.1 Present Land Use of Padang Mahondang Scheme

			Land	Use Category			
Ite		Irrigated	Rainfed Paddy Field Tree Crop Total Currently Used Long Fallow Land Land 1/		Rainfed Paddy Field		
Paddy Field		Daddy Eigld	Currently Ugod	Long Fal	low Land	Land 1/	Total
Paddy Field		Paddy Fleid	Currently Used	Bush	Light Forest	(Oil Palm)	
A ====	(ha)	724	436	736	735	600	3,231
Alea	(%)	22.4	13.5	22.8	22.7	18.6	100.0

1/: Mostly land converted from paddy fields.

Source: Findings of JICA Study Team; Statistic data of District Agriculture Service Office

2.2 Prevailing Cropping Schedule & Pattern in Padang Mahondang Scheme

Paddy: Wet Season: Nov. - Feb. ~ Feb. - Apr.; Dry Season: May - July ~ Aug. - Oct. (planting ~ harvest) Palawija: Cultivation both in wet and dry season; but area limited.

Cropping Pattern: Irrigated Paddy Field --- wet season - dry season: paddy - paddy/palawija/fallow Cropping Pattern: Rainfed Paddy Field --- wet - dry season: paddy/palawija/fallow - fallow (cropped area limited)

2.3 Cropped Area & Intensity in Padang Mahondang Scheme

	2	0	Irrigate	ed Padd	y Field: 724 ha			
Cropping Season	Irrigated Pa	addy	Rainfed Pad	dy 1/	Palawija	2/	Sub-tota	ıl
	Area (ha)	CI(%)	Area (ha)	CI(%)	Area (ha)	CI(%)	Area (ha)	CI(%)
Wet Season	350	48	374	52			724	100
Dry Season	163	23			62	9	225	31
Annual	513	71	374	52	62	9	949	131
			Rainfed	l Paddy	Field: 1,907 ha			
Cropping Season	Irrigated Pa	addy	Rainfed Pa	ddy	Palawija	2/	Sub-total	
	Area (ha)	CI(%)	Area (ha)	CI(%)	Area (ha)	CI(%)	Area (ha)	CI(%)
Wet Season			436	23	53	3	489	26
Dry Season							0	0
Annual			436	23	53	3	489	26
			Overall Sch	neme: Pa	addy Field 2,63	1 ha		
Cropping Season	Irrigated Pa	addy	Rainfed Pa	ddy	Palawija	2/	Total	
	Area (ha)	CI(%)	Area (ha)	CI(%)	Area (ha)	CI(%)	Area (ha)	CI(%)
Wet Season	350	13	810	31	53	2	1,213	46
Dry Season	163	6	0	0	62	2	225	9
Annual	513	19	810	31	115	4	1,438	55
1/. Paddy cultivated ur	der rainfed cou	nditions	2/· Dale	wija m	niza composita	(mostly)	& coupons (r	vartly)

1/: Paddy cultivated under rainfed conditions.2/: Palawija maize composite (mostly) & soybeans (partly)Source: Findings of JICA Study Team; Statistic data of District Agriculture Services Office

# Table B-1.4.1 Basic Agriculture Conditions of Padang Mahondang Scheme

	Irrigated Paddy Field: 724 ha									
Cropping Season	Irrigated Paddy			Rainfed	Paddy 1/	Palawija (maize)				
	Yield (t/ha)	Produc	tion (t)	Yield (t/ha)	Production (t)	Yield (t/ha)	Production (t)			
Wet Season	4.0		1,400	2.5	935					
Dry Season	4.0		652			3.	0 186			
Annual			2,052		935		186			
	Rainfed Paddy Field: 1,907 ha									
Cropping Season	Irrigate	Irrigated Paddy			d Paddy	Palaw	ija (maize)			
	Yield (t/ha)	Production (t)		Yield (t/ha)	Production (t)	Yield (t/ha)	Production (t)			
Wet Season				2.0	872	3.	0 159			
Dry Season										
Annual					872		159			
			Ove	rall Scheme: P	addy Field 2,63	ha				
Cropping Season	Irrigated Pa	addy	Rai	nfed Paddy	Paddy Tot	al Pa	Palawija (maize)			
	Production	n (t)	Pro	duction (t)	Production	(t) P	Production (t)			
Wet Season		1,400		1,807		3,207	159			
Dry Season		652				652	186			
Annual		2,052		1.807		3,859	345			

Source: Findings of JICA Study Team; Statistic data of District Agriculture Services Office

#### 3. Agriculture Support Services

3.1 Extension Service	S				
Project	BPP	No. of PF	Ls Deployed in	n Scheme	No. of
Sub-district	(No office established)	Male	Female	Total	PHT
Pulau Rakyat	No. PPLs in BPP: 5	2	0	2	1

2 2	Summont	Easi	lition
7 /.	SUDDOLL	гаст	nnes
	~ apport		

Facility	Name	Location
District Agriculture Services Office	District Agriculture Services Office, Asahan	Kisaran, Kab. Asahan
Food Security & Extension Office	Food Security & Agr. Ext. Office, Asahan	Kisaran, Kab. Asahan
Seed Farm	Balai Benih Pembantu, Indurapura	Kec. Air Petih, Indurapura
Seed Supervision & Certification Office	BPSB, Asahan	Kec. Simpan Kawan, Asahan
Agricultural High School	Agricultural High School, Asahan	Kec. Meranti, Asahan
Plant Protection Center	BPTPH, Sumatra Utara	Medan
Experimental Station	BPTP, Sumatra Utara	Medan
Seed Supervision & Certification Off	BPSB, Asahan	Kec. Simpan Kawan, Asahan

3.3 Farmers Organizations (Kelompok Tani, 2002)

Project			Ke		Total							
riojeci	Primary		Secondary		Intermediate		Advanced		KTs		Member	
Sub-district	No.	%	No.	%	No.	%	No.	%	No.	%	Total	per KT
Pulau Rakyat	6	13	25	52	16	33	1	2	48	100	1,947	41
Project Desa Total												

3.4 Farmer Organizations, Credit Institutions

Project Sub-district	KUD	Koptan	UPJA	P3A	BRI Branch
Pulau Rakyat	2 (tree crops; sleeping)	2 (tree crops; active)	1	12	1

Source: Statistic data of District Agriculture Services Office; Findings of JICA Study Team

#### 4. Agriculture Facilities & Machinery

Project	Large	<b>D</b> MI1	Small	Thre	esher	Water Dump
Sub-district	Rice Mills	KMU	Rice Mills	Pedal	Power	water rump
Pulau Rakyat	4	2	4	3	5	9
Project	Hand	4 Wheel	Horvostor	Paddy	Rat	KIOSK
Sub-district	Tractor	Tractor	11al vestei	Dryer	Fumigator	(private)
Pulau Rakyat	17	0	18	0	24	1
		h a i	0.00			

Source: Statistic data of District Agriculture Services Office

## Table B-1.4.2 Records on Cropped Area of Paddy and Palawija in Padang Mahondang Scheme

#### 1. Cropped Area of Paddy in Pulau Rakyat 1/

				St	atistic Data	a of Distri	ct Agricu	ulture & I	Livestock	Services (	Office (ha)	)					
Voor					D	ry Season						W	/et Season	l			Annual
i eai	Jan	Feb	Mar	Apr	May	June	July	Aug	Sub-total	Sept	Oct	Nov	Dec	Jan	Feb	Sub-total	Allilual
1996/97	11	0	0	0	5	657	518	0	1,180	0	0	148	155	622	740	1,665	2,845
1997/98	622	740	120	0	0	235	215	300	870	475	0	35	1,020			1,530	2,400
1998/99																	
1999/00														1,220	0		
2000/01	1,220	0	0	0	130	25	0	0	155	592	0	0	235	42	54	923	1,078
2001/02	42	54	108	0	0	0	115	0	223	20	105	315	588	25	0	1,053	1,276
2002/03	25	0	3	0	0	0	10	0	13	0	0	10	620	0	0	630	643
2003/04	0	0	0	0	50	160	25	25	260	0							
Average	320	132	39	0	31	180	147	54	450	181	21	102	524	382	159	1,160	1,648
%			2	0	2	11	9	3	27	11	1	6	32	23	10	70	100
Avg. of Dry Season (9	9/00 to 02	2/03):	28	0	45	46	38	6	163								
Avg. of wet season(96	/97 to 200	)2/03):								181	21	102	524	382	159	1,160	
Current Cropped Ar	ea of Pad	dy Assun	ned						163							1,160	1,323

1/: Paddy field in the sub-district almost exclusively extended in the Padang Mahondang Irrigation Scheme

#### 2. Cropped Area of Palawija in Pulau Rakyat 1/

				Sta	tistic Data	a of Distri	ict Agricu	lture & I	Livestock	Services C	Office (ha)	)					
Voor					Dı	y Season						W	et Season	1			Annual
i cai	Jan	Feb	Mar	Apr	May	June	July	Aug	Sub-total	Sept	Oct	Nov	Dec	Jan	Feb	Sub-total	Allilual
Maize																	
2001/02	4	2			6		9	9	24	7	47		2	7	9	72	96
2002/03	7	9	5	9	2	1	16	11	44	2	2	3	5	2	2	16	60
Average	5.5	5.5	5	9	4	1	12.5	10	34	4.5	24.5	3	3.5	4.5	5.5	44	78
Soybeans																	
2001/02	0	0	0	0	0	0	2	1	3	0	4	0	0	2	6	12	15
2002/03	2	6	7	8	4	1	24	8	52	3	0	1	1			5	57
Avg.	1	3	3.5	4	2	0.5	13	4.5	28	1.5	2	0.5	0.5	2	6	8.5	36
Current Cropped Are	ea of Pala	wija Ass	umed (ha	)					62							53	115

1/: Palawija cultivation is the sub-district is practiced almost exclusively extended in the Padang Mahondang Irrigation Scheme

#### 3. BPS Statistic Data on Cropped Area of Paddy in Pulau Rakyat 1/

Annual Cropped	1996	1997	1998	1999	2000	2001	2002	Average of 1996 to 2002
Area of Paddy	2,482 ha	2,915 ha	2,976 ha	2,665 ha	2,281 ha	894 ha	878 ha	2156 ha
1/ Valermater Asslars	Version Archar Datam Analyz 1000 to 2002 DBS Archar							

1/: Kabupaten Asahan Dalam Angka, 1996 to 2002, BPS Asahan

#### 4. JICA Report (1990) 1/

I and Use	Irrigated Paddy Field	Rainfed Paddy Field	Others	Total	Cropped Area of	Wet Season	Dry Season	Annual
Laliu Use	1,100	1,400	830	3,330	Paddy	2,270	660	2,930

1/: Master Plan Study on Lower Asahan River Basin Development, JICA, 1990

				Rainfed I	Paddy 1/	ý	Irrigate	d Paddy	Ма	ize
Items	Unit	(Rp 000)	Rainfe	d Field	Rainfed O	Condition	Wet/Dr	y Season	(Comj	posite)
		(Rp.000)	O'ty	Value		Value		Value		Value
			219	(Rp. 000)	Q'ty	(Rp. 000)	Q'ty	(Rp. 000)	Q'ty	(Rp. 000)
1. Gross Return										
Unit Yield	(t/ha)		2.0		2.5		4.0		3.0	
Unit Price	(Rp.000/t)			1,300		1,300		1,300		1,100
Gross Return	(Rp.000)			2,600		3,250		5,200		3,300
2. Production cost				1,386		1,497		2,173		1,049
2-1. Farm Inputs				240		297		542		508
Seed 2/	(kg)		30	60	30	60	30	60	30	120
Fertilizers				130		187		389		338
- Urea	(kg)	1.30	100	130	100	130	150	195	150	195
- SP36	(kg)	1.90	0	0	30	57	50	95	50	95
- KCl	(kg)	1.90	0	0	0	0	30	57	25	48
- ZA	(kg)	1.40	0	0	0	0	30	42		0
Agro chemicals				50		50		93		50
- Insecticide (liquid)	(lit)	50	1.0	50	1.0	50	1.5	75	1.0	50
- Insecticide (powder)	(kg)	30								
- Rodenticide	(kg)	35					0.5	18		
- Herbicide	(kg)	30								
2-2. Labor Costs				648		684		1.044		216
Contracted Works										
- Planting/Transplanting 3/	(unit)		1	360	1	360	1	360		
- Harvesting	(unit)									
Labor Requirements										
- Hired Labor	(man-day)	18	16	288	18	324	38	684	12	216
- Family Labor	(man-day)		35		40		44		62	
Total	(man-day)		51		58		82		74	
	× 2/									
2-3. Land Preparation				380		380		380		0
- Machinery	(unit)		1	380	1	380	1	380		
- Draft Animal	(unit)									
	( )									
2-4 Field Transportation	(LS)		2 %	52	2 %	65	2 %	104	2 %	66
	()		_ , ,		_ , ,				_ / •	
2-5 Shelling Cost		Rp 70/kg								210
										-10
2-6 Miscellaneous Expenses	(LS)		5 %	66	5 %	71	5 %	103	5%	50
3 Net Return	Rp 000		2 70	1,214	5 70	1,753	570	3.027	5 70	2,251
	%			47		54		58		-,-51
	Rounded			1.210		1.750		3,030		2,250

#### Table B-1.4.3 Financial Crop Budget per Ha under Present/Without Project

1/: Rainfed paddy --- paddy in rainfed paddy field; rainfed condition --- paddy grown under rainfed condition in irrigation command area

2/: Seed price: Paddy Rp. 2,000/kg; Maize --- composite Rp. 4,000/kg

3/: Contract work for transplanting assumed --- Rp. 360,000/ha at financial price

		(Unit: Rp. 000)
Receipt/Expenditure	1999/00	2000
A. RECEIPTS	124,688,494	127,415,020
1. Previous Year Surplus	1,630,667	6,132,412
2. Local Gov. Original Receipt	8,253,938	8,615,428
2.1 Local Taxes Receipt	6,437,481	5,957,852
2.2 Retributions Receipt	1,700,987	2,447,885
2.2.1 Retributions of public service	863,117	711,022
2.2.2 Retributions of commercial service	291,551	273,065
2.2.3 Retributions of special permits	546,319	1,463,798
2.3 Local Gov. Corporate Profit	0	0
2.4 Other Receipt	115,470	209,691
3. Income from Higher Level Gov. and/or Authority	114.803.889	112.667.180
3.1 Tax Share	19.956.766	17.147.656
3.2 Non Tax Share	69,140	48.575
3.3 Subsidies to Local Government	74.773.096	69.655.463
3.4 Development Contribution	19.947.827	25.768.731
3.5 Other Receipt	57.060	46 755
4. Local Government Loan	0	0
B. CURRENT EXPENDITURES	93,392,779	88,250,318
1. Personnel Current Expenditure	73,007,887	68,512,220
2. Material Current Expenditure	8,908,797	7,384,203
3. Repair & Maintenance Current Expenditure	1,561,395	1,445,988
4. Official Travel Expenditure	863,337	819,140
5. Other Current Expenditure	4.705.926	4.992.780
6. Debt and Interest Repayment	100.000	900.000
7. Fund/Subsidy	1.452.420	1.645.452
8. Other Current Expenditure	2.307.170	1.938.045
9. Unpredicted Current Expenditure	485,847	612,490
C. DEVELOPMENT EXPENDITURES	25,138,179	29,051,918
1. Industry	470,000	30,000
2. Agriculture and Forestry	1,660,333	494,136
3. Natural Water Resources and Irrigations	988,432	428,011
4. Manpower	94,970	0
5. Trade, Unfolding Regional Initiative, Regional Financial and Cooperatives	1,057,670	1,350,000
6. Transportation	10,538,541	12,373,448
7. Mining and Energy	0	0
8. Tourism and Regional Communications	27.213	134.863
9. Regional Development and Resettlement	1.474.801	3.692.368
10. Environment and Lav Out	80.663	84.830
11. Education, National Culture, Credentials, Youth and Sport	1.649.610	3.271.533
12. Demography and Family Welfare	172.825	0
13. Health Social Welfare Women Participation Child and Adolescent	470 121	299 715
14 Dwelling and Residence	0	0
15 Religion	62 850	0
16 Science and Technology	1 563 417	1 010 991
17. Law	10,000	15 000
18 Civil Servants and Control	3 840 044	5 493 523
19 Politics Information Communication and Mass Communication	318 942	0,175,525
20 Security and Public Order	00 7/7	40.000
21. Development Subsidies to Lower Level Gov.	558,000	333,500
D. TOTAL EXPENDITURES (B+C)	118,530,958	117,302,236

# Table B-1.5.1 Actual Receipts and Expenditures of Asahan District Government

#### Table B-3.1.1 Hydrological Condition and Water Balance

#### 1. Preliminary estimated monthly river flow data (m³/s)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
118.6	102.2	116.5	136.4	128.0	97.8	94.1	88.8	102.6	122.7	137.8	107.0	112.7
Source:	Irrigation	office, As	sahan									

#### 2. Monthly rainfall at Malau Estate (mm)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
149	113	131	141	121	217	186	119	321	285	218	264	2,264
a	¥ · /·		1									

Source: Irrigation office, Asahan

#### 3. Catchment area at weir site

4,669 km²

#### 4. Estimated monthly dependable flow (m³/s) Ì

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
70.1	61.9	69.7	79.5	50.8	55.9	47.7	69.0	75.4	89.6	104.0	82.5	71.3

#### 5. 10-days basis water balance

Planned irrigation area (ha) 2,631 ha



# Table B-3.1.2 Climate Condition at Medan

Name of the meteorological station	: Medan (Polonia)
Province	: North Sumatra
District	: Deli Serdang
Approximate distance of the station from the scheme	: 150km northwestward
Longitude : 3°33' N Latitude : 98°40' Altitude	: 27m

#### 1. Monthly mean temperature (°C)

			· /										
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1998	26.9	28.2	28.3	28.8	28.8	28.0	27.5	26.7	26.8	26.8	26.6	26.2	27.5
1999	26.2	26.6	27.0	27.4	27.2	27.1	27.4	26.9	26.3	26.1	26.5	25.8	26.7
2000	25.9	26.4	27.0	26.3	27.6	27.0	27.3	27.1	26.3	26.9	26.6	26.9	26.8
2001	26.5	26.8	27.3	27.4	27.9	27.4	27.4	27.5	26.5	26.9	26.3	26.5	27.0
2002	26.4	26.9	27.8	27.6	27.8	27.9	27.7	27.1	26.6	26.4	26.8	26.8	27.2
Average	26.4	27.0	27.5	27.5	27.9	27.5	27.5	27.1	26.5	26.6	26.6	26.4	27.0

Source: Monthly data supplied by Meteorological and Geophysical Agency Jakarta, Department of Communication

#### 2. Monthly mean relative humidity (%)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1998	85	83	81	79	80	82	83	86	85	85	86	86	83
1999	85	83	86	85	87	84	81	82	87	84	84	87	85
2000	86	83	82	82	83	84	80	81	86	85	85	83	83
2001	86	82	83	83	84	82	80	83	86	86	87	85	84
2002	85	82	80	83	83	78	81	82	85	87	86	86	83
Average	85	83	82	82	83	82	81	83	86	85	86	85	84

Source: Monthly data supplied by Meteorological and Geophysical Agency Jakarta, Department of Communication

#### 3. Monthly mean sunshine duration (hours/day)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1998	3.1	4.3	3.4	3.0	3.7	4.2	4.4	3.0	3.3	3.2	2.5	-	3.5
1999	2.2	3.2	3.0	3.4	2.6	2.8	3.5	2.9	3.2	3.4	2.6	1.3	2.9
2000	1.8	3.0	3.4	3.2	4.4	3.6	3.9	4.1	2.1	2.6	2.3	2.9	3.1
2001	2.2	3.0	3.0	2.2	3.2	3.4	4.5	3.4	2.2	2.4	2.2	2.7	2.9
2002	2.0	2.2	2.6	2.1	3.2	3.6	2.9	2.8	2.5	1.7	2.2	2.2	2.5
Average	2.3	3.2	3.1	2.8	3.4	3.5	3.8	3.2	2.6	2.7	2.3	2.3	3.0

Source: Monthly data supplied by Meteorological and Geophysical Agency Jakarta, Department of Communication

#### 4. Monthly mean wind velocity (knots)

			· /										
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1998	6.0	7.0	7.0	7.0	7.0	7.5	7.0	6.0	6.0	6.0	6.0	6.0	6.5
1999	6.0	6.0	6.0	7.0	6.0	7.0	7.0	7.0	7.0	3.7	6.4	6.0	6.3
2000	5.7	6.1	6.0	6.0	6.3	6.4	6.2	6.4	6.0	5.0	5.9	6.0	6.0
2001	5.9	6.2	6.7	6.0	6.2	7.0	7.3	6.7	6.3	6.2	6.3	6.2	6.4
2002	6.5	6.5	6.7	6.2	7.0	6.5	6.5	6.5	8.9	6.1	8.3	5.9	6.8
Average	6.0	6.4	6.5	6.4	6.5	6.9	6.8	6.5	6.8	5.4	6.6	6.0	6.4

Source: Monthly data supplied by Meteorological and Geophysical Agency Jakarta, Department of Communication

#### 5. Estimated monthly mean ETo by modified Penman method (mm/day)

Estimated	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
ETo	3.1	3.7	3.9	3.8	3.8	3.8	4.0	3.7	3.4	3.4	3.2	3.1	3.6

#### TableB-3.1.3 Water Requirement for Padang Mahondang Irrigation Scheme

	I t e m		1	Jan 2	3	1	Feb 2	3	1	Mar 2	3	1	Apr 2	3	1	Mav 2	3	1	Jun 2	3	1	Jul 2	3	1	Aug 2	3	1	Sep 2	3	1	Oct 2	3	1	Nov 2	3	1	Dec 2	3
ETo Percolation	(P) (n	nm/day) nm/day)	3.11 2.00	3.11 2.00	3.11 2.00	3.74 2.00	3.74 2.00	3.74 2.00	3.87 2.00	3.87 2.00	3.87 2.00	3.76 2.00	3.76 2.00	3.76 2.00	3.77 2.00	3.77 2.00	3.77	3.76 2.00	3.76 2.00	3.76 2.00	3.95 2.00	3.95 2.00	3.95 2.00	3.74 2.00	3.74 2.00	3.74 2.00	3.42 2.00	3.42 2.00	3.42 2.00	3.38 2.00	3.38 2.00	3.38 2.00	3.19 2.00	3.19 2.00	3.19 2.00	3.08 2.00	3.08 2.00	3.08 2.00
Reff Paddy	ia (n	nm/day) nm/day)	2.80 2.00	2.10 1.50	9.80 7.00	-	-	0.70 0.50	1.40 1.00	2.10 1.50	23.80 17.00	7.00 5.00	-	3.50 2.50	1.40 1.00	5.60 4.00	7.00	) 11.90 ) 8.50	27.30 19.50	41.30 29.50	3.50 2.50	14.00 10.00	12.60 9.00	-	-	-	16.10 11.50	42.00 30.00	47.60 34.00	29.40 21.00	81.20 58.00	28.00 20.00	31.50 22.50	35.00 25.00	0.70 0.50	1.40 1.00	10.50 7.50	31.50 22.50
$\mathbf{\tilde{G}}$ Eo = ETo * $\mathbf{M}$ = Eo + P	1.1 (n	nm/day) nm/day)	3.42 5.42	3.42 5.42	3.42 5.42	4.11	4.11	4.11	4.26	4.26	4.26	4.14	4.14 6.14	4.14	4.15	4.15	4.15	4.13	4.13	4.13	4.35	4.35	4.35	4.11	4.11	4.11 6.11	3.76 5.76	3.76 5.76	3.76 5.76	3.71 5.71	3.71 5.71	3.71 5.71	3.51 5.51	3.51 5.51	3.51	3.39 5.39	3.39 5.39	3.39 5.39
Basi	(	(days)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
S K = M * T	s	(mm)	0.43	0.43	0.43	0.49	0.49	250.00 0.49	250.00	250.00	0.50	0.49	0.49	0.49	250.00	250.00	250.00	0 250.00	0.49	0.49	0.51	0.51	0.51	0.49	0.49	0.49	0.46	0.46	0.46	0.46	250.00 0.46	0.46	0.44	0.44	0.44	0.43	0.43	0.43
LP = M * e Cropping Patter	"(e ^k -1) (n	nm/day)	15.41	15.41	15.41	15.80	15.80	15.80	15.89	15.89	15.89	15.82	15.82	15.82	15.83	15.83	15.83	15.82	15.82	15.82	15.94	15.94	15.94	15.81	15.81	15.81	15.60	15.60	15.60	15.57	15.57	15.57	15.46	15.46	15.46	15.39	15.39	15.39
						$\sim$			Palawija	(10%)					m		T			0	D 11 (	000				No irri	zation					TTT		Ľ	Wet Sea	son Padd	(100%)	
Land Preparati	on (LP) with Area Factor		<u></u>		<u> </u>	1		$\geq$			Land Pro	eparation .				TTTTTTTT	1	1	L L	ry Seasor	Paddy (3	0%)	<u>.</u>	I		$\geq$								Tittines_			<u></u>	1
- Wet season pad	dy schedule-1 schedule-2		-	-	-	1	-	-	1	1	1	2	-	-	2	2	1	1	-	-	-	-	-	-	2	-	-	-	7.80	15.57 7.79	7.79 15.57	- 7 79	-	-		-	-	-
	schedule-3		-	-	-		-	-				-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	7.79	15.57	7.73	- 7 73		-	-	-
D	LP for the crop (m	nm/day)	-	-	-	-	-	-	-	-	-	-		15.00		-	-	-	-	-	-	-	-	-	-	-	-	-	1.95	5.84	7.79	7.79	5.80	1.93		-	-	-
- Dry season pau	schedule-2	(1)	-	-				-				ļ	7.91	7.91	15.83	7.91			-	-	-	-	-	-		-	-	-	-				-	-	-	-	-	-
Crop Coefficien	t (Kc) with Area Factor	nm/day)	-	-	-	-	-	-	-	-	-	-	3.95	11.86	11.8/	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 0.72
- wet season pad	ay schedule-1 schedule-2		0.50	0.25	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	0.55	1.10	1.08	1.05	1.05	1.00	0.73
	schedule-3 schedule-4		1.00	0.73	0.50 0.73	0.25 0.50	- 0.25	-				-	-	-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	1.10 0.55	1.10 1.10	1.08	1.05	1.05 1.05
- Dry season pad	dy schedule-1	nm/day)	0.82	0.62	0.37	0.19	0.06	-	-	-			-	-	- 0.55	- 1.10	- 1.10	- 1.08	- 1.05	- 1.05	- 1.00	- 0.73	- 0.50	- 0.25		-	-	-	-	-	0.14	0.41	0.69	0.96	1.08	1.07	1.04	0.96
	schedule-2 Kc for the crop (m	nm/day)	-	-	-	-	-	-	-	-	-	-	-	-	0.28	0.55	1.10	) 1.10 ) 1.09	1.08 1.06	1.05 1.05	1.05 1.03	1.00 0.86	0.73 0.61	0.50 0.38	0.25 0.13	-	-	-	-	-	-	-	-	-	-	-	-	-
- Palawija	schedule-1 Kc for the crop (m	nm/day)	-	-	0.38	0.53	0.58 0.58	0.87 0.87	0.99	1.04 1.04	1.03	0.99	0.96 0.96	0.24 0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consummative - Wet season pad	U <b>se (ETc)</b>	nm/day)	2.55	1 93	1 15	0.70	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	1 39	2.19	3 05	3 4 5	3 29	3 21	2.94
<ul> <li>Dry season pad</li> <li>Palawija</li> </ul>	dy (n (n	nm/day) nm/day)	-	-	- 1.17	- 1.99	- 2.16	- 3.24	- 3.85	- 4.02	- 3.98	- 3.74	- 3.61	- 0.89	1.04	3.11	4.15	4.09	3.99	3.95 -	4.05	3.41	2.42	1.40	0.47		-	-	-	-	-	-	-		-		-	-
Percolation (P)	with Area Factor		2.00	1.00				_						-					_	-	-		-			_	-	-	-		1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	schedule-2		2.00	2.00	1.00	-	-	-				-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	2.00	2.00	2.00	2.00	2.00	2.00
	schedule-4	am/dau)	2.00	2.00	2.00	2.00	1.00	-	-			-	-	-				-	-	-	-	-	-	-		-	-	-	-	-	- 0.25	- 0.75	- 1.25	1.00	2.00	2.00	2.00	2.00
<ul> <li>Dry season pad</li> </ul>	dy schedule-1	uni day)	-	-	-	-	-	-	-	-	-	-	-	-	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	P for the crop (m	nm/day)	-	-	-	-	-	-	-	-	-	-	-	-	0.50	1.50	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.50	0.50	-	-	-	-	-	-	-	-	-		-	-	-
- Wet season pad	dy schedule-1	rea Facto	r 2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	2.50	-	-	2.50
	schedule-2 schedule-3		2.50	2.50 2.50	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	2.50 2.50	2.50	-
	schedule-4 WLR for the crop (m	nm/day)	- 1.25	- 1.25	2.50 1.25	2.50 0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 0.63	- 1.25	- 1.25	2.50 1.25	2.50 1.25
<ul> <li>Dry season pad</li> </ul>	dy schedule-1 schedule-2		-	-	-	-	-	-					-	-	-	-		2.50	2.50 2.50	- 2.50	-	2.50	2.50 2.50	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Field Requi	WLR for the crop (n rement	nm/day)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25	2.50	1.25	-	1.25	2.50	1.25	-	-	-	-	-	-	-	-	-	-		-	-	-
<ul> <li>Wet season pad</li> <li>Dry season pad</li> </ul>	dy (n dy (n	nm/day) nm/day)	3.00	2.83	-	2.08	0.48	-	-	-	-	-	- 3.95	- 8.36	- 12.01	- 2.97	-	-	-	-	- 2.55	-	-	- 4.15	- 0.97	-	-	-	-	-	-	-	-	-	6.00 -	5.14	-	-
<ul> <li>Palawija</li> <li>Wet season pad</li> </ul>	(n dv (l	nm/day) l /s/ha)	- 0.35	- 0.33	-	1.99 0.24	2.16 0.06	2.74	2.85	2.52	-	-	3.61	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	- 0.69	- 0.59		
<ul> <li>Dry season pad</li> <li>Palawija</li> </ul>	dy ()	l /s/ha) l /s/ha)	-	-	-	0.23	0.25	0.32	0.33	0.29	-		0.46	0.97	1.39	0.34	-			- -	0.30		-	0.48	0.11	-		-				-	-				-	
Tota Diversion Wate	l (]	l /s/ha)	0.35	0.33	-	0.47	0.31	0.32	0.33	0.29	-	-	0.88	0.97	1.39	0.34	-	-	-	-	0.30	-	-	0.48	0.11	-	-	-	-	-	-	-	-	-	0.69	0.59	-	-
- Wet season pad	dy (l	l /s/ha)	0.58	0.55		0.40	0.09				-	-	- 0.76	- 1.61	- 232	- 0.57				- -	- 0.49			- 0.80	- 0.19	-			- -				-		1.16	0.99		-
- Palawija		l/s/ha)	-	-		0.38	0.42	0.53	0.55	0.49			0.70	-		0.57	-		-	-	- 0.49			- 0.80		-		-	-			-	-	-	-	-	-	
Diversion Water	Requirement with Crop	ping Inten	sity (CI	)	-	0.79	0.00	0.33	0.55	0.49	-	-	1.40	1.01	2.32	0.37	-	-	-	-	0.49	-	-	0.60	0.19	-	-	-	-	-	-	-	-	-	1.10	0.99	-	-
<ul> <li>Wet season pad</li> <li>Dry season pad</li> </ul>	dy CI 100% ()	l/s/ha)	-	- 0.55	-	0.40	0.09	-	-	-	-	-	0.38	0.81	- 1.16	0.29	-	-	-	-	0.25	-	-	0.40	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-
- Palawija Tota	CI 10% (1	l /s/ha)	- 0.58	- 0.55	-	0.04	0.04	0.05	0.05	0.05	-	-	0.07	- 0.81	-	0.29	-	-	-	-	- 0.25	-	-	- 0.40	- 0.09	-	-	-	-	-	-	-	-	-	- 1.16	- 0.99	-	

Max. Diversion Requirement = 1.16

lit/sec/ha (Irrigation

(Irrigation efficiency was estimated at 60%)

	List of Canal	s
Name of Canal	Length (m)	Type of Rehabilitation
Main	9,000	RG4 (New)
Secondary -1	3,000	RG4 (New)
SC-2	4,000	RG4 (New)
SC-3	3,000	RG4 (New)
SC-4	3,000	RG4 (New)
SC Total	13,000	RG4 (New)

<b>Table B-3.2.1</b>	List of Irrigation Canals and Related Structures
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List of Structures on Main Canal					
Structure Serial No.	Structure	Hm	Name/Mark of Str.	Type of Rehabilitation	
MC-1	Box CV	5.00	BK. PM1b	RG4 (New)	
MC-2	Box CV	10.00	BK.PM1a	RG4 (New)	
MC-3	Division Str.	20.00	BK.PM1	RG4 (New)	
MC-4	Division Str.	30.00	BK.PM2	RG4 (New)	
MC-5	Box CV	33.00	BK.PM3b	RG4 (New)	
MC-6	Drainage CV	37.00	BK.PM3a	RG4 (New)	
MC-7	Division Str.	40.00	BK.PM3	RG4 (New)	
MC-8	Box CV	50.00	BKPM4a	RG4 (New)	
MC-9	Division Str.	60.00	BK.PM4	RG4 (New)	
MC-10	Drainage CV	70.00	BKPM5a	RG4 (New)	
MC-11	Division Str.	80.00	BK.PM5	RG4 (New)	
MC-12	Division Str.	90.00	BK.PM6	RG4 (New)	

<b>Table B-3.2.2</b>	Dimension	of Main	Canal
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			1						
			Canal Dimension						
HM	ВК	Distance (m)	Design discharge (m ³ /s)	Canal bottom wide (m)	Canal height (m)	Lining height (m)	Uniform water depth (m)	Side slope	Hydraulic gradient
			Q	В	H + 0.50	Н	d	m	1/I
0	BP of MC								
		2,000	3.16	2.00	2.40	1.90	1.30	1.25	6,000
20	BK. PM 1								
		1,000	3.12	2.00	2.40	1.90	1.29	1.25	6,000
30	BK. PM 2								
		1,000	2.88	2.00	2.40	1.90	1.24	1.25	6,000
40	BK. PM 3								
		2,000	2.82	2.00	2.30	1.80	1.22	1.25	6,000
60	BK. PM 4								
		2,000	2.04	2.00	2.10	1.60	1.03	1.25	6,000
80	BK. PM 5								
		1,000	1.92	2.00	2.10	1.60	1.00	1.25	6,000
90	BK. PM 6								

<b>Table B-3.2.3</b>	Work Quantity

		Work Description	Unit	Quantity				
I. In	take							
1.1	Const	ruction of New Intake						
	1.1.1	Embankment of dike	m3	1,200				
	1.1.2	Sod facing to dike	m2	500				
	1.1.3	Excavation of intake	m3	3,000				
	1.1.4	Concrete works	m3	500				
	1.1.5	Form works	m2	1,500				
	1.1.6	Reinforcement bars	ton	20				
	1.1.7	Gabion mattress	m3	300				
	1.1.8	Backfill/embankment	m3	1,500				
	1.1.9	Gate works	ton	4				
	1.1.10	Metal works	ton	2				
	1.1.11	Dewatering works	day	60				
1.2	Settlir	ng Basin						
	1.2.1	Excavation	m3	16,000				
	1.2.2	Backfill	m3	8,500				
	1.2.3	Concrete 18N	m3	600				
	1.2.4	Concrete 13N	m3	40				
	1.2.5	Reinforcement bars	ton	60				
	1.2.6	Form	m2	4.100				
	1.2.7	Gate works	ton	3				
	1.2.8	Stoplog	ton	1				
II.	Main Canal Works							
2.1	Main	Canal, Canal Works						
	2.1.1	Excavation	m3	21,000				
	2.1.2	Excavation, existing canal	m3	0				
	2.1.3	Embankment, dike	m3	172,000				
	2.1.4	Embankment, inside	m3	0				
	2.1.5	Lining concrete	m3	5,700				
	2.1.6	Sod facing	m2	44,000				
2.2	Main	Canal Structure Works						
-	2.2.1	Excavation	m3	1,800				
	2.2.2	Embankment/backfill	m3	800				
	2.2.3	Concrete	m3	1.100				
	2.2.4	Form	m2	5.000				
	2.2.5	Reinforcement bars	ton	80				
	2.2.6	Gate	ton	12				
	2.2.7	Metal works	ton	2				
2.3	Main Canal Inspection Road							
	2.3.1	Gravel pavement	m3	8,000				
	2.3.2	Related facilities (10% of above)	lot	1				
	2.2.2			1				

		Work Description	Unit	Quantity
III.	Secon	dary Canal (4 nos. of SC)		
3.1	Secon	dary Canal, Canal Works		
	3.1.1	Excavation	m3	3,000
	3.1.2	Excavation, existing canal	m3	(
	3.1.3	Embankment, dike	m3	180,000
	3.1.4	Embankment, inside	m3	(
	3.1.5	Lining concrete	m3	5,900
	3.1.6	Sod facing	m2	36,000
3.2	Secon	dary Canal, Structure Works		
	3.2.1	Excavation	m3	1,600
	3.2.2	Embankment/backfill	m3	600
	3.2.3	Concrete	m3	1,100
	3.2.4	Form	m2	4,700
	3.2.5	Reinforcement bars	ton	70
	3.2.6	Gate	ton	16
3.3	Secon	dary Canal, Inspection Road		
	3.3.2	Gravel pavement	m3	7,800
	3.3.3	Related facilities (10 % of above)	lot	1
IV.	Drain	age Works	L.S	1
		20 % of (II+III)		
V.	On-F	arm Development		
5.1	Irrigat	ted Paddy Field	ha	724
5.2	Land	for reclamation	ha	1,907
VI	Ducio	at Eacility		
VI.	Goto 1	ct racinty	house	,
0.1 6.2	Gale I Field	cars	nouse	2
6.2	Motor	augla	1105.	2
0.3 6.4	Office	aguinment	IIOS.	20
## Table B-3.3.1 Agriculture Plan

## 1. Land Use Plan

Land Use Category	Present/With	Present/Without Project		Project	Increment (With-Without)		
Land Use Category	Area (ha)	(%)	Area (ha)	(%)	Area (ha)	(%)	
Irrigated Paddy Field	724	27.5	2,440	92.7	1,716	90.0	
Rainfed Paddy Field	1,907	72.5	-		-1,907	-100.0	
- Currently Used	(436)	(16.6)	-		(-436)	-	
- Long Fallow Land	(1,471)	(55.9)	-		(-1,471)	-	
Right-of-ways2/	-	-	191	7.3	191	10.0	
Project Area	2,631	100.0	2,631	100.0	0	0	
Tree Crop Land (alih fungsi) 1/	600	-	600	-	0	-	
Registration Area	3,231	-	3,231	-	0	-	

1/: Mostly converted from paddy field; oil palm planted land 2/: Estimated to be 10% of rainfed fields

## 2. Planned Cropping Schedule & Pattern (illustrated in Figure B- 3.3.1)

Wet Season:	Paddy (100%)	Middle Oct. to end Nov. ~ early Jan. to early Mar.
Dry Season:	Paddy ( 50%)	Paddy ( 50%) Beginning May to mid. June ~ early Aug. to mid. Sep.
	Palawija (10%)	Maize (10%) Mid. Jan. to end Jan. $\sim$ mid. Apr. to end Apr.

## 3. Planned Cropped Area & Cropping Intensity

Land Use Category/	Wet Sea	ason	Dry Sea	ison	Annual	
Crops	Area (ha)	Intensity (%)	Area (ha)	Intensity (%)	Area (ha)	Intensity (%)
		Present/	Without Project			
Irrigated Paddy Field (	(724 ha)					
- Irrigated Paddy	350	48	163	23	513	71
- Rainfed Paddy 1/	374	52		0	374	52
- Palawija (maize)			62		62	
Sub-total	724	100	225	31	949	131
Rainfed Paddy Field (	1,907 ha )					
- Rainfed Paddy	436	23			436	23
- Palawija (maize)	53	3			53	3
Sub-total	489	26	0		489	26
Overall Scheme ( pade	ly field 2,631 ha	)				
- Irrigated Paddy	350	13	163	6	513	19
- Rainfed Paddy	810	31	0	0	810	31
- Palawija (maize)	53	2	62	2	115	4
Total	1,213	46	225	9	1,438	55
		W	ith Project			
Irrigated Paddy Field (	(2,440 ha)					
- Irrigated Paddy	2,440	100	1,220	50	3,660	150
- Palawija (maize)			244	10	244	10
Total	2,440	100	1,464	60	3,904	160
		Increment	With - Without	)		
Overall Scheme ( pade	ly field 2,440 ha	)				
- Irrigated Paddy	2,090	87	1,057	44	3,147	131
- Rainfed Paddy	-810	-31	0	0	-810	-31
- Palawija (maize)	-53	-2	182	-2	129	-4
Total	1,227	54	1,239	51	2,466	105
1/: Paddy grown under	rainfed condition	ns in irrigated f	ïelds			

(1/2)

## Table B-3.3.1 Agriculture Plan

## 4. Planned Crop Yield

					-	
Cror	Present/Wit	hout Project	With	Increment (t/ha)		
Стор	Wet Season	Dry Season	Wet Season	Dry Season	Wet	Dry
Irrigated Paddy	4.0 t/ha	4.0 t/ha	5.0 t/ha	5.0 t/ha	1.0	1.0
Irrigated Paddy 1/	-	-	4.0 t/ha	4.5 t/ha	1.5-2.0	-
Rainfed Paddy 2/	2.5 t/ha	-	-	-	-	-
Rainfed Paddy	2.0 t/ha	-	-	-	-	-
Palawija (maize)	3.0 t/ha	3.0 t/ha	-	5.0 t/ha	-	2.0

1/: With project irrigated paddy yield in current rainfed fields (1,716 ha)

2/: Paddy grown under rainfed conditions in irrigated fields (374 ha)

## 5. Planned Crop Production

Crop	Prese	ent/Without Pr	roject		Increment		
Стор	Wet Season	Dry Season	Annual	Wet Season	Dry Season	Annual	Annual
Irrigated Paddy	1,400	652	2,052	3,620	3,620	7,240	5,188
Irrigated Paddy 1/				6,864	1,984	8,848	8,848
Rainfed Paddy 2/	935		935				-935
Rainfed Paddy	872		872				-872
Paddy Total	3,207	652	3,859	10,484	5,604	16,088	12,229
Palawija (maize)	159	186	345		1,220	1,220	875

1/: With project irrigated paddy yield in current rainfed fields (wet: 1,716 ha; dry: 496ha)

2/: Paddy grown under rainfed conditions in irrigated fields (374 ha)

#### 6. Extension Services Strengthening Plan

Major development constraints & extension services required for the earlier attainment of the project target.

Major Constraints for Agriculture Development:

- Farmers groups (KTs) yet to be empowered to a great extent,
- Insufficient extension services, insufficient capabilities of extension staffs especially in post-harvest & marketing aspects,
- Technical constraints; farmers limited experiences in irrigated farming, poor water management, long fallow land etc.
- Shortage of hand tractors for future expansion of irrigated fields, and
- Participatory approaches for agriculture development yet to be introduced.
- Extension Services Required:
  - Institutional Strengthening Package Program
  - Farmer Organizations Empowerment Package Program
  - Technical Guidance Package Program
  - Participation Enhancement Package Program

#### **Implementation Plan of AESS (tentative)**

	Implementation Schedule / Year						
Program	Construct	tion Stage	Operation Stage				
	1st	2nd	3rd	4th	5th		
Institutional Strengthening Package Program		•••••	•••••	•••••	•••••		
Farmer Organizations Empowerment P. Program		•••••	•••••	•••••			
Technical Guidance Package Program			•••••	•••••	• • • • • • • • • • • • • • • • • • • •		
Participation Enhancement Package Program		•••••	•••••	•••••	•••••		

	Irrigated Paddy 1/									
		Unit		Newly Irri	gated Field	1	Current I	rrigated Field	Μ	laize
Items	Unit	Price	Wet	Season	Dry	v Season	Wet/D	Ory Season	(H	ybrid)
		(Rp000)	Q'ty	Value (Rp000)	Q'ty	Value (Rp000)	Q'ty	Value (Rp000)	Q'ty	Value (Rp000)
1. Gross Return										
Unit Yield	(t/ha)		4.0		4.5		5.0		5.0	
Unit Price	(Rp.000/t)			1,300		1,300		1,300		1,100
Gross Return	(Rp.000)			5,200		5,850		6,500		5,500
2. Production cost				2,173		2,413		2,492		2,244
2-1. Farm Inputs				542		685		748		1,138
Seed 1/	(kg)		30	60	30	90	30	90	20	440
Fertilizers				389		488		535		545
- Urea	(kg)	1.30	150	195	175	228	175	228	200	260
- SP36	(kg)	1.90	50	95	50	95	75	143	100	190
- KCl	(kg)	1.90	30	57	50	95	50	95	50	95
- ZA	(kg)	1.40	30	42	50	70	50	70		0
Agro chemicals				93		108		123		153
- Insecticide (liquid)	(lit)	50	1.5	75	1.5	75	1.5	75	1.5	75
- Insecticide (powder)	(kg)	30			0.5	15	1.0	30		
- Rodenticide	(kg)	35	0.5	18	0.5	18	0.5	18	0.5	18
- Herbicide	(kg)	30							2.0	60
2.2 Labor Costs				1.044		1.116		1.116		540
Contracted Works				1,044		1,110		1,110		540
- Planting/Transplanting 2/	(unit)		1	360	1	360	1	360		
- Harvesting	(unit)		1	500	1	500	1	500		
Labor Requirements	(unit)									
- Hired Labor	(man-day)	18	38	684	42	756	42	756	30	540
- Family Labor	(man-day)	10	44	001	44	750	44	750	68	510
Total	(man-day)		82		86		86		98	
	(						00		,,,	
2-3. Land Preparation				380		380		380		0
- Machinery	(unit)		1	380	1	380	1	380		
- Draft Animal	(unit)									
2-4. Field Transportation	(L.S.)		2 %	104	2 %	117	2 %	130	2 %	110
2-5. Shelling Cost		70/t								350
2-6 Miscellaneous Expenses	(LS)		5 %	103	5 %	115	5 %	110	5 %	107
3 Net Return	Rn 000		570	3 027	570	3 437	570	4 008	570	3 256
				58		59		62		59
	Rounded			3,030		3,440		4,010		3,260

## Table B-3.3.2 Financial Crop Budget per Ha under With Project: Padang Mahondang

1/: Paddy --- yield level < 4.5 Rp. 2,000; yield level  $\ge$  4.5 Rp. 3,000; Maize hybrid Rp. 22,000/kg

2/: Contract work for transplanting assumed --- Rp. 360,000/ha at financial price

1. Establishment	of Task Force Team for Agriculture Extension Services Strengthening (AESS)					
1-1. Regional (province of	or district) Task Force Team					
1) Program Objectives	and Description					
The formation of "Tainstitution responsible	ask Force Team" at a regional level is proposed in order to ensure the establishment of a standing le for the planning, implementation and monitoring of AESS.					
2) Task Force Team Me	embers					
Proposed members o Chief: Ch Secretary: Fo Members: Pla Te Ma Ad Te	of Task Force Team are: hief of Food Crops Agriculture Services Office od Crops Agriculture Services Office anning agencies (BAPPEDA etc.) chnical agencies (Food Crops, Irrigation etc.) arketing agencies thoc members on need basis chnical guidance members (provincial technical agencies)					
3) Job Description of Ta	ask Force Team					
<ul> <li>Formulation of i</li> <li>Preparation of a</li> <li>Preparation of b</li> <li>Monitoring &amp; ev</li> <li>Guidance, support</li> </ul>	mplementation program of AESS nnual work programs for AESS udget proposal for the annual work program valuation of AESS ort & supervision of Sub-regional Task Force Teams					
4) Organizational Set-u	p and Authority					
The Task Force Tear The Team should be	n should better be organized as a development institution directly responsible to regional governor. tter be given the entire authority on AESS under the governor.					
The costs for the pro 1-2. Sub-regional (distric 1) Program Objectives	gram should better be accommodated in the regional administration budget. t or sub-district) Task Force Team and Description					
The formation of "T standing institution r	Fask Force Team" at a sub-regional level is planned in order to ensure the establishment of a responsible for the planning, implementation and monitoring of AESS.					
2) Task Force Team Me	embers					
Proposed members o Chief: Ch Secretary: Lo Members: Pla Te Ma Ad Te	of Task Force Team are: hief of Food Crops Agriculture Services Sub-regional Office head government staff anning agencies chnical agencies (Food Crops, Irrigation etc.) arketing agencies thoc members on need basis hoc members on need basis chnical guidance members (regional technical agencies)					
3) Job Description of Ta	ask Force Team					
<ul> <li>Preparation of p beneficiaries.</li> <li>Monitoring &amp; ev</li> </ul>	proposal for an sub-regional annual work program for AESS through participatory approaches of valuation of AESS					
4) Organizational Set-u	p and Authority					
The Task Force Tear The Team should be	The Task Force Team should better be organized as an institution directly responsible to Regional Task Force Team. The Team should better be given the entire authority on AESS at sub-regional level.					
5) Estimated Program (	Cost					
The costs for the pro	gram should better be accommodated in the regional or sub-regional administration budget.					

## TableB-3.3.3 (2/7): Program Description Sheet: Institutional Strengthening Package Program

2. Staff Empowerment Program						
2-1. Regional (province or district) Staff En	ipowerment Sub-program					
<ol> <li>Program Objectives         The program aims at empowerment periodical and specific staff empowerment     </li> </ol>	of regional level staffs of agencies concerned with AESS through provision of ent programs.					
2) Program Description and Subjects The periodical empowerment program is for: 1) seasonal & annual planning and review of AESS at regional level participated by staffs concerned of province & district and representatives of sub-districts and 2) general empowerment program of district staffs concerned.						
The special staff empowerment program promotion, products processing, institut Regional Task Force Teams members field activities including OJT and study	n is for: 1) empowerment of staffs on specific subjects such as marketing, partnership tional strengthening etc. through training, workshop & seminar, 2) empowerment of organized under AESS and 3) empowerment of staffs on specific subjects through tour.					
3) Target Groups						
Periodical Empowerment Program	- Province & district staffs concerned with AESS					
Special Empowerment Program:	<ul> <li>Representatives of sub-districts</li> <li>District staffs concerned with the selected subjects &amp; Regional Task Force Teams members organized under AESS</li> </ul>					
4) Program Requirements and Timing						
Periodical Empowerment Program Special Empowerment Program: - Periodical program should be after	2 programs per year (seasonal) in principle On need basis (intensive implementation required in the initial stage) the same in the sub-regional level					
5) Estimated Program Cost						
Periodical Empowerment Program:Rp. 5,000,000/programSpecial Empowerment Program:Rp. 5,000,000/program & Rp. 10,000,000/program (field activities)						
<ul> <li>2-2. Agriculture &amp; Extension Staff (Sub-reg</li> <li>1) Program Objectives</li> <li>The program aims at empowerment of through provision of periodical and spe</li> </ul>	ional Staff) Empowerment Sub-program 'sub-regional level staffs (district or sub-district) of agencies concerned with AESS cific staff empowerment programs.					
<ol> <li>Program Description and Subjects The periodical empowerment program participated by staffs concerned of sub sub-regional staffs concerned.</li> </ol>	is for: 1) seasonal & annual planning and review of AESS at sub-regional level ob-regions and representatives of producers and 2) general empowerment program of					
The special staff empowerment program seminar, 2) empowerment of Sub-registregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistregistreg	n is for: 1) empowerment of staffs on specific subjects through training, workshop & onal Task Force Teams members organized under AESS and 3) empowerment of activities including OJT and study tour.					
3) Target Groups						
Periodical Empowerment Program	- Sub-regional staffs concerned with AESS					
Special Empowerment Program:	<ul> <li>Representatives of farmers/producers</li> <li>Sub-regional staffs concerned with the selected subjects &amp; Sub-regional Task Force Teams members organized under AESS.</li> </ul>					
4) Program Requirements and Timing						
Periodical Empowerment Program:2 programs per year (seasonal) in principleSpecial Empowerment Program:On need basis (intensive implementation required in the initial stage)						
- Periodical program should be prior	- Periodical program should be prior to the same in the regional level					
5) Estimated Program Cost						
Periodical Empowerment Program Special Empowerment Program:	: Rp. 3,000,000/program Rp. 3,000,000/program & Rp. 7,000,000/program (field activities)					
2.1 Processor Objection	3. Strengthening of Extension Facilities					
<ul> <li>3.1 Program Objectives</li> <li>The program aims to establish agricultural e</li> <li>3.2 Estimated Program Cost</li> </ul>	xtension facilities at Pulau Rakyat Sub-district through:					
Renovation of Office Space Extension Equipment & facilities Total	Rp. 50 million/un ( office space at the sub-district office) <u>Rp. 10 million/unit</u> Rp. million 50					

#### Table B-3.3.3 (3/7): Program Description Sheet: Farmer Organizations Empowerment Package Program

#### 4. Kelompok Tani Empowerment Sub-program

4-1. Program Background

The primary constraint for the introduction of business oriented agriculture activities in the project area appears to be capabilities of individual farmers and farmers groups toward the same. While, the decentralization policy as well as the economic development policy of Indonesia will bring in privatization of agriculture including agriculture support activities currently being undertaken by the government. This dictates the necessity of the establishment of producers groups (better be called so rather than farmers groups) who are well organized and are technically capable, business minded and market oriented legal bodies.

4-2. Program Objectives

The program challenges against a long lasting and envisaged theme of the Indonesian agriculture to establish and strengthening of farmers group (*Kelompok Tani*). Therefore, the program aims to establish units of "Producers & Marketing Group (P&MG)".

Major activities of P&MG will include group purchase of farm inputs and group marketing of products.

4-3. Program Activities and Descriptions

The activities (program components) involved in this program are:

- Establishment of Farmer Groups Empowerment Task Force Team (FGE TFT)
- Inventory on agricultural farmer groups
- Selection of target areas & groups
- Socialization of programs & workshops
- Implementation of empowerment programs
- Formation of new organization, "producers & marketing groups"
- Monitoring & evaluation
- 4-4. Program Descriptions

The descriptions of individual activities (program components) are as follows;

4-4-1. Establishment of Farmer Groups Empowerment Task Force Team (FGE TFT)

Formation of Task Force Team

Task:	Responsible for KT & UPJA Empowerment Program in a district
Chief:	Chief of Agriculture Services Office
Member:	Agricultural technical agencies
	Chief of sub-district agriculture services office
Secretary:	Agriculture Services Office

Empowerment of Task Force Team

- Induction training of members under Staff Empowerment Program
- Official establishment of Task Force Team by District Governor
- 4-4-2. Inventory on Agricultural Farmer Groups (Kelompok Tani/KT)
  - Inventory on KTs formed by sub-district
  - Identification of area covered, membership, activities, financial status, constraints, future plans etc.
- 4-4-3. Selection of Target Areas & KTs

Selection of target areas & KTs for further programs by sub-district

#### Table B-3.3.3(4/7): Program Description Sheet: Farmer Organizations Empowerment Package Program



## TableB-3.3.3 (5/7): Program Description Sheet: Farmer Organizations Empowerment Package Program

	5. UPJA Empowerment & Formation Sub-program
5-1.	Program Background and Objectives In the project area, land preparation works for food crop production are mostly carried out by using hand tractor under hiring service arrangement. UPJA (Farm Machinery Hiring Services Farmer Group) system was introduced under SPL OECF in the province and there are 10 UPJAs in Asahan District. UPJAs are providing hiring services of hand tractor, power thresher, RMU, water pump and drier. With the expansion of irrigated paddy field under the rehabilitation plan, the number of UPJAs in and around the project area is extremely limited and the expansion of UPJA services is considered inevitable to provide hiring services to farming community.
	UPJAs themselves are facing problems of management and services system. The present program envisages to empower the existing and new-coming UPJAs in and around the project area in order them to perform anticipated functions.
5-2.	Program Activities
	The activities (program components) involved in this program are:
	<ul> <li>Review of current UPJA system jointly by province and district</li> <li>UPJA Empowerment Sub-program</li> <li>UPJA Formation Sub-program</li> <li>Monitoring &amp; evaluation</li> </ul>
5-3.	Program Descriptions
5.	-3-1. UPJA Empowerment Sub-program
	(1) Review of Current UPJA System
	The review of current UPJA system and improvement of the system, if deemed necessary, is considered essential under the province and district joint workshop as follows;
	<ul> <li>Inventory on UPJA performances and review of current UPJA system by individual districts</li> <li>Workshop for joint review of UPJA system by province and district: <ul> <li>Participated by Provincial &amp; District Food Crops Agriculture Services Offices</li> <li>Formulation of draft standard UPJA system by provincial agencies</li> </ul> </li> <li>Formulation of standard UPJA system by provincial agencies</li> <li>Workshop with UPJAs at district level</li> <li>Formulation of updated UPJA system by individual district agencies</li> </ul>
	(2) UPJA Empowerment Training Package Program
	<ul> <li>Training program to UPJA management staffs on the updated system, management, planning, accounting, institutional issues, monitoring requirements etc.</li> <li>Study tour to advanced UPJAs</li> <li>Preparation of UPJA empowerment plan by individual UPJA</li> </ul>
	(3) Operator & Mechanic Refresher Training
	Refresher training of operators & mechanic on O&M and service discipline etc.
5.	-3-2. UPJA Formation Sub-program
	(1) UPJA Formation Program
	<ul> <li>Formation of UPJA farmer groups</li> <li>Training program to UPJA management staffs on the updated system, management, planning, accounting, institutional issues, monitoring requirements etc.</li> <li>Provision of farm machinery (hand tractor 1 unit; power thresher 1 unit; trailer 1 units per UPJA)</li> </ul>

#### TableB-3.3.3 (6/7): Program Description Sheet: Farmer Organizations Empowerment Package Program

#### (2) Operator & Mechanic Training

Training of operators & mechanic on O&M and service discipline etc.

- 5-3-4. Monitoring & Evaluation
  - Monitoring & evaluation of the program by district and extension staffs
  - Monitoring & evaluation of UPJA activities to be done by UPJA themselves
- 5-4. Approaches for Program Implementation and Selection of Target UPJAs
  - The initial step is the province & district joint review of current UPJA system and the review of current system followed at individual district level.
  - All the existing UPJAs to be supported with this program, and new-coming UPJAs if possible.
  - Operator and mechanic refresher training to be held annually at district level, depending needs basis.

#### 5-5. Program Volumes

Tentatively assumed that the program completes in 4 years.

5-6. Estimated Program Cost

Roughly estimated program costs are as follows;

Item	Estimated Cost (Rp.000)	Remarks
1. UPJA Empowerment Sub-program		
(1) Review of Current UPJA System	-	Administrative budget
- Joint workshop by province and district:	-	
- Workshop with UPJAs at district level	-	
(2) UPJA Empowerment Sub-program	10,000	per 3 UPJAs
- Empowerment Package Program	5,000	
- Operator & Mechanic Refresher Training	5,000	
(3) Administrative & miscellaneous cost	1,000	$\Rightarrow$ 10 % of (2)
Estimated Program Cost	11,000	
2. UPJA Formation Sub-program	77,000	per 3 UPJAs
(1) Formation of UPJA farmer groups	2,000	
(2) UPJA formation training program	5,000	
(3) Operator & Mechanic Training	5,000	
(4) Provision of farm machinery	65,000	
(5) Administrative & miscellaneous cost	4,000	$\Rightarrow$ 5 % of 1 to 4
Estimated Program Cost	81,000	

Table B-3.3.3 (7/7):	<b>Program Description Sheet:</b>	Technical Guidance & I	Participation Enhancement	Package Program
	r rogi um Deseription Sneett	reennieur Guidance & I	a despution Enhancement	r achage r rogram

		6. Technical G	uidance Packa	age Program		
	Candidate Programs					
	6-1-1. Field Extension Sub-progr	ram				
	(1) Program Objectives & Des	cription				
	Verification/simple trial	To verify or make sir	nple trial on ad	laptability of recor	mmended varieties & farm	ning
	Field demonstration	Demonstration of are	a specific farm	ing technologies	& on-farm water managem	nent for
	IPM	To adopt agronomic/ chemicals through es	biological cont stablishing field	rol method of pes l schools at 3ry ur	ts & diseases with appropr iit level	riate use of
	(2) Estimated Unit Program Co	osts (Rp.000)				
	Verification or simple tria	1 10,000 per uni [†]	t Demonstratic	on area	20,00 <u>0</u> per unit	
	Demonstration plot	3,000 per unit	t Cropping pat	tern demonstratio	n 20,000 per unit	
	Demonstration farm	10,000 per unit	t IPM		15,000 per unit	
	6-1-2. Farmer Training Sub-program	m				
	(1) Programs					
	- Farmer/farmer group	training				
	- Mass guidance/campa	ign/ workshop				
	<ul> <li>Farmer groups format</li> <li>Integrated farmer gro</li> </ul>	.10n/ activation guidance	ce			
	(2) Estimated Program Costs (	Pp (101)				
	(2) Estimator i Togram Costo (1	$\frac{10.000}{10.000}$		groups formation	7 500 per unit	
	Integrated farmer group fo	rmation 15,000 pe	r unit Mass gu	idance/workshop	3,000 per unit	
	6-1-3. Farmer-to Farmer Training S	Sub-program				
	(1) Programs	1 -				
	<ul> <li>Field school on farm of</li> <li>Field school on agri-b</li> <li>Study tour</li> </ul>	or water management pusiness approaches				
	(2) Estimated Program Costs (!	Rp.000)				
	Field school on farm/wate Field school on agri-busir	er management 10 ness approach 1	0,000 per unit 5,000 per unit	Study tour	$10 \sim 25,000 \text{ per}$	unit
	Program Selection & Estimated An	nual Program Cost				
	Program selection to be made	at the time of preparati	ion of the Annu	ıal Work Program	on need basis.	
	Annual program costs tentative	elv estimated: Rp. 30 r	nillion		·····	
		7 Particination E	nhancement P	ackage Program		
	Program Objectives	/. I #	many	ALRAST 1 . VB		
•	The program aims at introducing programs or activities to ensure imp	the participatory pla plementation of such a	inning and eva	aluation of gover on area specific n	mment agricultural suppo eeds.	ort
	Program Activities					
	Workshop at (project or program) s	ub-district & district le	evel for plannir	ng & evaluation		
	Participants					
	Workshop at sub-district: Rep Workshop at district: Rep	presentatives of target presentatives of extens	groups (farmer ion staffs & tar	s) get groups (farme	ers)	
	Program Requirements					
	<ul><li>In time for planning of support</li><li>At the end of support services</li></ul>	services activities activities				
	Estimated Program Costs (Rp. 000)	)				
	Workshop at sub-district:	1,000 per unit W	orkshop at distr	rict: 3,000 per	unit	

## Table B-3.3.4 Proposed Implementation Schedule for Agriculture Extension Services Strengthening (AESS)

		Implementation Schedule / Year													
Activities/Programs	Item		Con	struct	tion S	tage	- <b>1</b>			Operation Stag	e				
č			1st			2nd		3r	1	4th		5th		Overall	Remarks
Project Activates															
1. Formulation of Implementation Plan	Schedule														
2. Establishment of Extension System	Schedule														Dreamon aget to be accommendated
3. Formulation of Annual Work Program & Budget Arrangement	Schedule									••••••					in the maximum la durinistration
4. Preparation of Extension Materials	Schedule									••••••	••				in the regional administration
5. Monitoring & Evaluation	Schedule									• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • •		budget.
Project Programs															
1. Institutional Strengthening Package Program	Schedule								·	+ - +	-	-			Program post to be accommodated
1.1 Establishment of Regional Task Force Team															in the regional administration
- Regional Task Force Team	Schedule		•												hudeet
- Sub-regional Task Force Team	Schedule		•												budget.
1.2 Staff Empowerment Program															
- Regional Staff Empowerment Sub-program	Schedule										-				
	Packet		1	l		3		2		2				8 packets	With field activities: Rp. 7 M
	Cost Schedule		5	5		20		10	)	15				50 Rp. million	Without field activities: Rp. 3 M
- Agriculture & Extension Staffs Empowerment	Schedule											-			
Sub-program	Unit			1		3		2		3	1			10 packets	With field activities: Rp. 10 M
	Cost Schedule			3		13		6		13	3			38 Rp. million	Without field activities: Rp. 5 M
1.3 Strengthening of Extension Facilities (BPP)	Schedule				-										Renovation of sub-district office
	Unit					1								1 unit	space
	Cost Schedule					50								50 Rp. million	
2. Farmer Organizations Empowerment Package Program	Schedule										+ -				
2.1 Kelompok Tani (KT) Empowerment Sub-program	Schedule														50  ha/KT = 49  KTs/scheme
	Packet					1		1		1		1		4 packets	1 packet/10 KTs
	Cost Schedule					22.5		22	5	22.5		22.5		90 Rp. million	
2.2 UPJA Formation & Empowerment Package Program	Schedule				I				-		-				
- UPJA Empowerment Sub-program	Schedule										-				
	Packet							1		1				2 packets	3 UPJAs/packet
	Cost Schedule							1		11				22 Rp. million	
- UPJA Formation Sub-program	Schedule														
	Packet					1		1						2 packets	1 UPJA/packet
	Cost Schedule					81		8						162 Rp. million	
3. Technical Guidance Package Program	Schedule										_				
	Packet							1		1		1		3 packets	
	Cost Schedule							30		30		30		90 Rp. million	
4. Participation Enhancement Package Program	Schedule														2 packets each at sub-district &
	Packet					4		4		4		2		14 packets	district level
	Cost Schedule					8		8		8		4		28 Rp. million	
Overal	l Cost Schedule		8			195		16	9	100		60		530 Rp. million	
Ordinal Extension Programs	Schedule		•••••												
¥										• • •					

Programs not accommodated in the project costs

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Table B-4.2.1 D	rect Construction	Cost
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	Work Description	Unit	Quantity	Unit Drigg (Dn)	$\frac{(1/2)}{4 \text{ mount (Bn)}}$
L In	take	Unit	Quantity	Unit Price (Kp.)	Amount (Kp.)
1.1	Construction of New Intake				
	1.1.1 Embankment of dike	m3	1,200	30,000	36,000,000
	1.1.2 Sod facing to dike	m2	500	6,000	3,000,000
	1.1.3 Excavation of intake	m3	3,000	13,000	39,000,000
	1.1.4 Concrete works	m3	500	350,000	175,000,000
	1.1.5 Form works	m2	1,500	100,000	150,000,000
	1.1.6 Reinforcement bars	ton	20	6,000,000	120,000,000
	1.1.7 Gabion mattress	m3	300	500,000	150,000,000
	1.1.8 Backfil/embankment	m3	1,500	30,000	45,000,000
	1.1.9 Gate works	ton	4	30,000,000	120,000,000
	1.1.10 Metal Works	dav	2 60	20,000,000	40,000,000
	1.1.11 Dewatering works	uay	00	7,500,000	265 600 000
	Sub-total				1,593,600,000
1.2	Settling Basin				
	1.2.1 Excavation	m3	16,000	13,000	208,000,000
	1.2.2 Backfill	m3	8,500	30,000	255,000,000
	1.2.3 Concrete 18N	m3	600	350,000	210,000,000
	1.2.4 Concrete 13N	m3	40	320,000	12,800,000
	1.2.5 Reinforcement bars	ton	60	6,000,000	360,000,000
	1.2.6 FORM	m2	4,100	100,000	410,000,000
	1.2.7 Gate works	ton	3	40,000,000	120,000,000
	1.2.6 Stoppog	ton	1	20,000,000	317 160 000
	Sub-total				1,902,960,000
1.3	Access Road from National Highway	m	1,500	600,000	900,000,000
	Contingency (20%)				180,000,000
	Sub-total				1,080,000,000
	Total I				4,576,560,000
п	Main Canal Works				
2.1	Main Canal. Canal Works				
	2.1.1 Excavation	m3	21,000	13,000	273,000,000
	2.1.2 Embankment, dike	m3	172,000	30,000	5,160,000,000
	2.1.3 Lining concrete	m3	5,700	400,000	2,280,000,000
	2.1.4 Sod facing	m2	44,000	6,000	264,000,000
	2.1.5 Contingency (20%)				1,595,400,000
	Sub-total				9,572,400,000
2.2	Main Canal, Structure Works				
	2.2.1 Excavation	m3	1,800	13,000	23,400,000
	2.2.2 Embankment/backfill	m3	800	30,000	24,000,000
	2.2.3 Concrete	m3	1,100	400,000	440,000,000
	2.2.4 Form	m2	5,000	100,000	500,000,000
	2.2.5 Reinforcement bars	ton	80	6,000,000	480,000,000
	2.2.0 Gale	ton	12	20,000,000	40,000,000
	2.2.7 With works 2.2.8 Contingency (20%)	ton	2	20,000,000	373 480 000
	Sub-total				2,240,880,000
2.3	Main Canal, Inspection Road				
	2.3.1 Gravel pavement	m3	8,000	100,000	800,000,000
	2.3.2 Related facilities (10% of above)	lot	1	80,000,000	80,000,000
	2.3.3 Contingency (20%)				176,000,000
	Sub-total				1,056,000,000
	10tal II				12,809,280,000

## Table B-4.2.1 Direct Construction Cost

	Work Description	Unit	Quantity	Unit Price (Rp)	$\frac{(=,=)}{Amount (Rp)}$
III.	Secondary Canal (4 nos. of SC)	Olin	Quantity		rinount (rep.)
3.1	Secondary Canal, Canal Works				
	3.1.1 Excavation	m3	3.000	13.000	39.000.000
	3.1.2 Embankment, dike	m3	180.000	30.000	5.400.000.000
	3.1.3 Lining concrete	m3	5,900	400.000	2.360.000.000
	3.1.4 Sod facing	m2	36.000	6.000	216.000.000
	3.1.5 Contingency (20%)		,	•,•••	1.603.000.000
	Sub-total				9,618,000,000
3.2	Secondary Canal, Structure Works				
	3.2.1 Excavation	m3	1,600	13,000	20,800,000
	3.2.2 Embankment/backfill	m3	600	30,000	18,000,000
	3.2.3 Concrete	m3	1,100	400,000	440,000,000
	3.2.4 Form	m2	4,700	100,000	470,000,000
	3.2.5 Reinforcement bars	ton	70	6,000,000	420,000,000
	3.2.6 Gate	ton	16	30,000,000	480,000,000
	3.2.7 Contingency (20%)				369,760,000
	Sub-total				2,218,560,000
3.3	Secondary Canal, Inspection Road				
	3.3.1 Gravel pavement	m3	7,800	100,000	780,000,000
	3.3.2 Related facilities (10 % of above)	lot	1	78,000,000	78,000,000
	3.3.3 Contingency (20%)				171,600,000
	Sub-total				1,029,600,000
	Total III				12,866,160,000
IV.	Drainage Works				
4.1	20 % of (II+III)	L.S	1	5,147,088,000	5,147,088,000
	Total IV				5,147,088,000
V.	On-Farm Development				
5.1	Irrigated Paddy Field	ha	724	2,000,000	1,448,000,000
5.2	Land for reclamation	ha	1,907	2,500,000	4,767,500,000
	Total V				6,215,500,000
VI.	Project Facility	_			
6.1	Gate keepers house	house	4	30,000,000	120,000,000
6.2	Field cars	nos.	3	300,000,000	900,000,000
6.3	Motor cycle	nos.	20	20,000,000	400,000,000
6.4	Office equipment	L.S	1	150,000,000	150,000,000
	I otal VI				1,570,000,000
	Grand Total				43,244,588,000

			(Unit: million Rp.)
Item	Cost		Remarks
Initial Investment Costs (1) Direct Construction Cost (Irrigation System Rehabilitation)	41,566		including physical contingency and project facilities
(2) Institutional & Extension Services Strengthening	843	2.0% of (1)	
(3) Consulting Service	2,933	7.0% of (1)+(2)	
(4) Administration	992	2.5% of (1)+(2)	
Total	46,335		
Running Costs			
(5) Incremental O&M cost	416		per year
(6) Replacement Cost	1,570		per 10 years
Total	1,986		

## Table B-6.2.1 Economic Project Costs of Padang Mahondang Scheme

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$								(1/2)
Item         Operation         US8/ton         Rp/kg         Operation         US8/ton         Rp/kg           I. Thai 5% broken, 2005 (constant price) *1*3         226.9         226.9         226.9         226.9           2. Adjusted to 2003 constant price         99.33%         225.4         99.33%         225.4           9. Quality adjustment         99%         202.8         90%         202.8           6. Conversion to Rupiah *2         2.010         1.679           7. Losses and port handling         5% +         101         5% -         84           8. Transportation (port to wholesaler)         +         400         -         400           9. Ex-wholesaler         2.151         1.555         1.4408         68%         1.000         +         100           12. Conversion to paddy         66%         1.408         68%         1.003         33.8         By-products (new banz) 20% of paddy x Rp100/kg)         +         100         +         100           14. Milling cost         -         100         +         100         +         100           15. Conversion to Rupiah *2         1.244         99.33%         110.3         99.33%         110.3         3.7           16. Cononomic farm gate price (impor			In	port Parity	D //	Ex	port Parity	<b>n</b> //
Krcc         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9         226.9 <th< th=""><th>-</th><th>Item</th><th>Operation</th><th>US\$/ton</th><th>Rp/kg</th><th>Operation</th><th>US\$/ton</th><th>Rp/kg</th></th<>	-	Item	Operation	US\$/ton	Rp/kg	Operation	US\$/ton	Rp/kg
1. Intal 5% broken, 2005 (constant price       99.33%       225.4       99.33%       225.4         3. Quality adjustment       90%       202.8       90%       202.8         4. Freight and insurance (Bargkot-Indonesia)       +       40.0       5       5         5. CIF Indonesia       242.8       2010       5% -       84         8. Conversion to Rupiah *2       2.010       5% -       84         9. Transportation (port to wholesaler)       +       40       -       40         9. Ex-wholesaler       2.151       1.555       5       1.475         12. Conversion to paddy       stp100/kg)       +       100       +       100         4. Milling cost       -       100       +       100       +       100         13. By-products (nice bran: 20% of paddy x kp100/kg)       +       100       +       100       +       100         14. Milling cost       -       100       -       100       +       100       +       100         15. Conversion to paddy       stp100/kg kp100/kg, export 0%)       1,330       983       10.3       99.33%       110.3       -       100         14. Milling cost       -       100       -       100	Rice	TI 50/1 1 0005 /		2260			226.0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1.	1 hai 5% broken, 2005 (constant 1990 price) *1*3	00.000/	226.9		00.000/	226.9	
3. Quality adjustment         90%         202.8         90%         202.8           4. Freight and insurance (Bangkok-Indonesia)         +         40.0         1.679           5. CIF Indonesia         242.8         202.8           6. Conversion to Rupiah *2         2,010         1.679           7. Losses and port handling         5% +         101         5% -         84           8. Transportation (port to wholesaler)         +         400         -         40           9. Ex-wholesaler         2.151         1.555         1.151         1.455           10. Handling and transportation (wholesaler to mill)         -         80         -         80           11. Ex-mill         2.071         1.475         1.000         -         100           14. Milling cost         -         100         -         100         -         100           15. Transportation (mill to farm)         -         20         -         20         -         20           16. Economic farm gate price         (mort 100%, export 0%)         1.390         Maize         983         110.3         99.33%         110.3           2. Conversion to Rupiah *2         .         1.244         913         .         .         400<	2.	Adjusted to 2003 constant price	99.33%	225.4		99.33%	225.4	
4. Pregnt and insurance (langkok-Indonesia)       +       40.0         5. CFF Indonesia       242.8       202.8         6. Conversion to Rupiah *2       2,010       1,679         7. Losses and port handling       5% +       101       5% -       84         8. Transportation (port to wholesaler)       +       40       -       40         9. Ex-wholesaler       2,151       1,555       1,468       1,408       68%       1,013         11. Ex-mill       2,001       +       100       +       100       +       100         13. By-products (rice bran: 20% of paddy x Rp100/kg)       +       100       +       100       +       100         15. Transportation (mill to farm)       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       100       +       100       +       100       +       100       +       100       +       100       +       100       -       100       -       100       -       100       +       100       +       100       +       100       +       100       +       100       +	3.	Quality adjustment	90%	202.8		90%	202.8	
5. CH Indonesia       242.8       202.8         6. Conversion to Rupiah *2       2,010       1,679         7. Losses and port handling       5% +       101       5% -       84         8. Transportation (port to wholesaler)       +       40       -       40         9. Ex-wholesaler       2,151       1,555       10.       1,475         10. Handling and transportation (wholesaler to mill)       -       80       -       80         11. Ex-mill       2,071       1,475       1.000       +       1000       +       100         14. Milling cost       -       100       -       100       -       100       -       100         16. Economic farm gate price       1,388       983       (Rounded)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390       980       110.3       99.33%       110.3         2. Conversion to Rung tai *2       5% +       62       5% -       46       67       7ansportation (port to wholesaler)       +       40.0       -       40         10. Scasse and port handling       5% +       62       5% -       46       827       913       6.       80       -       80<	4.	Freight and insurance (Bangkok-Indonesia)	+	40.0				
6. Conversion to Rupiah *2       2,010       1,679         7. Losses and port handling       5% +       101       5% -       84         8. Transportation (port to wholesaler)       +       40       -       40         9. Ex-wholesaler       2,151       1,555       1.475       1.555       1.475       1.68%       1,003         11. Ex-mill       2,071       1,475       1.475       1.00       +       100       +       100       1.475         12. Conversion to paddy       68%       1,408       68%       1,003       1.001       -       100       +       100       +       100       +       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100       -       100	5.	CIF Indonesia		242.8			202.8	
7. Losses and port handling       5% +       101       5% -       84         8. Transportation (port to wholesaler)       +       40       -       40         9. Ex-wholesaler       2,151       1,555       10.       Handling and transportation (wholesaler to mill)       -       80       -       80         11. Ex-mill       2071       1,475       1,475       100       +       100       100         12. Conversion to paddy       fmill to farm)       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       20       -       100       1110       111.0       111.0       111.0       1130       313       5       50       -       46       7       7       1244       913	6.	Conversion to Rupiah *2			2,010			1,679
8.       Transportation (port to wholesaler)       +       40       -       40         9.       Ex-wholesaler       2,151       1,555         10.       Ex-mill       2,071       1,475         11.       Ex-mill       2,071       1,475         12.       Conversion to paddy       68%       1,408       68%       1,003         13.       By-products (rice bran: 20% of paddy x Rp100/kg)       +       100       -       100         14.       Miling cost       -       100       -       100         15.       Transportation (mill to farm)       -       20       -       20         16.       Economic farm gate price       1,388       983       (Rounded)       1,390       980         17.       Weighted average economic farm gate price (import 100%, export 0%)       1,390       110.3       110.3         16.       Corse and port handling       5% +       62       5% -       46         7.       Transportation (own lossaler to project area)       -       80       -       80         17.       Local transportation (wholesaler to project area)       -       80       -       50         16.       Exe-wholesaler       1,246	7.	Losses and port handling	5% +		101	5% -		84
9       Ex-wholesaler       2,151       1,555         10       Handling and transportation (wholesaler to mill)       -       80       -       80         11       Ex-mill       2,071       1,475       12       Conversion to paddy       68%       1,408       68%       1,003         13       By-products (rice barn: 20% of paddy x Rp100/kg)       +       100       +       100         14       Milling cost       -       100       +       100       -       100         15       Transportation (mill to farm)       -       20       -       20       -       20         16       Economic farm gate price       1,388       983       983       (Rounded)       1,390       980         17       Weighted average economic farm gate price (import 100%, export 0%)       111.0       111.0       111.0         2       Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         5       Conversion to Rupiah *2       1,244       913       6       Losses and port handling       5% +       62       5% -       46         7       Transportation (port to wholesaler)       +       400       -       80       80       80	8.	Transportation (port to wholesaler)	+		40	-		40
10       Handling and transportation (wholesaler to mill)       -       80       -       80         11       Ex-mil       2,071       1,475         12       Conversion to paddy       68%       1,408       68%       1,003         13       By-products (rice tran: 20% of paddy x Rp100/kg)       +       100       +       100         14       Milling cost       -       100       -       100         15       Transportation (mill to farm)       -       20       -       20         16       Economic farm gate price       1,388       983       (Rounded)       1,390       980         17       Weighted average economic farm gate price (import 100%, export 0%)       1,390       18       110.3         1       Export price, 2005 (constant 1990 price) *1       111.0       111.0       111.0         2       Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         3       Freight and insurance (gulf ports-Indonesia)       +       40.0       40.0       400         4       CIF Indonesia       150.3       110.3       110.3       110.3       110.3         5       Conversion to Rupiah *2       1,244       913       6<	9.	Ex-wholesaler			2,151			1,555
11       Ex-mill       2,071       1,475         12       Conversion to paddy       68%       1,408       68%       1,003         13       By-products (rice bran: 20% of paddy x Rp100/kg)       +       100       +       100         14       Milling cost       -       100       +       100         15       Transportation (mill to farm)       -       20       -       20         16       Economic farm gate price       1,388       983       983         (Rounded)       1,390       980       138       983         17       Weighted average economic farm gate price (import 100%, export 0%)       1,390       99.33%       110.3         3       Freight and insurance (gulf ports-indonesia)       +       40.0       4       CIF Indonesia       150.3       110.3         5       Conversion to Rupiah *2       1,244       913       6.0sses and port handling       5% +       62       5% -       46         7       Transportation (port to wholesaler)       +       40       -       40         8       Ex-wholesaler       1,244       913       6.0sses and port handling       5% +       62       5% -       46         7       Handling	10.	Handling and transportation (wholesaler to mill)			80	-		80
12. Conversion to paddy $68\%$ 1,408 $68\%$ 1,003         13. By-products (rice bran: 20% of paddy x Rp100/kg)       +       100       +       100         14. Milling cost       -       100       -       100         15. Transportation (mill to farm)       -       20       -       20         16. Economic farm gate price       1,388       983       (Rounded)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390       980       1,390       980         16. Economic farm gate price (import 100%, export 0%)       1,390       99.33%       110.3       111.0       111.0       111.0         2. Adjusted to 2003 constant 1990 price) *1       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       111.0       110.3       110.3       110.3       110.3       110.3       110.3       110.3       110.3       110.3       110.3       110.3       110.2       111.0       111.0       111.0<	11.	Ex-mill			2,071			1,475
13.       By-products (rice bran: 20% of paddy x Rp100/kg)       +       100       +       100         14.       Milling cost       -       100       -       100         15.       Transportation (mill to farm)       -       20       -       20         16.       Economic farm gate price       1,388       983       (Rounded)       1,390       980         17.       Weighted average economic farm gate price (import 100%, export 0%)       1,390       980       110.3       99.33%       110.3         2.       Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         3.       Freight and insurance (gulf ports-indonesia)       +       40.0       4       40.0         4.       CIF Indonesia       150.3       110.3       99.33%       110.3         5.       Conversion to Rupiah *2       1,244       913       6.       Losses and port handling       5% +       62       5% -       46         7.       Transportation (wholesaler to project area)       -       80       -       80       10.         8.       Ex-wholesaler       1,246       627       9       11       120       700         10.       Leat transportati	12.	Conversion to paddy	68%		1,408	68%		1,003
14. Milling cost       -       100       -       100         15. Transportation (mill to farm)       -       20       -       20         16. Ecconomic farm gate price       1,388       983         (Rounded)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390       980         16. Economic farm gate price (import 100%, export 0%)       110.3       111.0         2. Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         3. Freight and insurance (gulf ports-Indonesia)       +       40.0       400       400         4. CIF Indonesia       150.3       110.3       110.3       111.0       111.0         5. Conversion to Rupiah *2       1,244       913       6       Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       400       -       400       8       25.2       46       827         9. Handling and transportation (wholesaler to project area)       -       80       -       80       -       50       1.220       700       1.220	13.	By-products (rice bran: 20% of paddy x Rp100/kg)	+		100	+		100
15. Transportation (mill to farm)       -       20       -       20         16. Economic farm gate price       1,388       983         (Rounded)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390         Maize       111.0       111.0         1. Export price, 2005 (constant 1990 price) *1       111.0       111.0         2. Adjusted to 2003 constant price       99.33%       110.3       99.33%         3. Freight and insurance (gulf ports-Indonesia)       +       40.0       10.3         4. CIF Indonesia       150.3       110.3       110.3         5. Conversion to Rupiah *2       1,244       913       6         1. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       1,246       827       9       Handling and transportation (wholesaler to project area)       -       80       -       80         10. Ex-wholesaler price       1,216       697       50       -       50         12. Economic farm gate price       1,216       697       226.9       226.9       226.9       226.9       226	14.	Milling cost	-		100	-		100
16. Economic farm gate price       1,388       983         (Rounded)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390       980         Maize       1       111.0       111.0         1. Export price, 2005 (constant 1990 price) *1       111.0       111.0         2. Adjusted to 2003 constant price       99.33%       110.3       99.33%         3. Freight and insurance (gufports-Indonesia)       + 40.0       4         4. CIF Indonesia       150.3       110.3         5. Conversion to Rupiah *2       1,244       913         6. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       400       -       400         8. Ex-wholesaler price       1,266       747       711       Local transportation and handling losses       -       50       -       50         10. Export price, 2005 (constant 1990 price) *1       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9	15.	Transportation (mill to farm)	-		20	-		20
(Rounded)       1,390       980         17. Weighted average economic farm gate price (import 100%, export 0%)       1,390         Maize       1       1, Export price, 2005 (constant 1990 price) *1       111.0         1. Export price, 2005 (constant price       99.33%       110.3       99.33%         3. Freight and insurance (gulf ports-Indonesia)       +       40.0       110.3         4. CIF Indonesia       150.3       110.3         5. Conversion to Rupiah *2       1,244       913         6. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       1,346       827       9       400       -       80       -       80       10       Ex-wholesaler       1,266       747       71       Local transportation (wholesaler to project area)       -       80       -       50       12       Economic farm gate price       1,216       697       697       700       1,220       700       1,220       700       1,220       700       1,220       700       1,220       700       1,220       700       1,220       225.4       5       5       5       5       4	16	Economic farm gate price			1,388			983
17. Weighted average economic farm gate price (import 100%, export 0%)       1,390         Maize       1. Export price, 2005 (constant 1990 price) *1       111.0         1. Export price, 2005 (constant price       99.33%       110.3         3. Freight and insurance (gulf ports-Indonesia)       +       40.0         4. CIF Indonesia       150.3       110.3         5. Conversion to Rupiah *2       1,244       913         6. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       1,346       827         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Ex-wholesaler price       1,216       697       -       50       -       50         12. Economic farm gate price       1,216       697       -       50       -       50         13. Weighted average economic farm gate price (import 100%, export 0%)       1,220       700       -       40         14. Export price, 2005 (constant 1990 price) *1       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       226.9       225.4       50		(Rounded)			1,390			980
Maize       1       Export price, 2005 (constant 1990 price) *1       111.0       111.0         2. Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         3. Freight and insurance (gulf ports-Indonesia)       +       40.0       110.3         4. CIF Indonesia       150.3       110.3         5. Conversion to Rupiah *2       1,244       913         6. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       1,346       827       9       40       40       40         9. Ex-wholesaler price       1,266       747       71       1. Local transportation and handling losses       -       50       -       50         10. Ex-wholesaler price       1,216       697       697       1,220       700         11. Local transportation and handling losses       -       50       -       50         12. Economic farm gate price       1,216       697       226.9       226.9       226.9         2. Adjusted to 2003 constant price       99.33%       225.4       99.33%       225.4       50       -       40	17.	Weighted average economic farm gate price	(import 1009	%, export 09	/0)			1,390
1. Export price, 2005 (constant 1990 price) *1       111.0       111.0         2. Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         3. Freight and insurance (gulf ports-Indonesia)       +       40.0       110.3       91.35%       110.3         4. CIF Indonesia       150.3       110.3       91.36%       110.3         5. Conversion to Rupiah *2       1,244       91.36%       91.36%         6. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       1,346       827         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Ex-wholesaler price       1,266       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747       747	Maize							
2. Adjusted to 2003 constant price       99.33%       110.3       99.33%       110.3         3. Freight and insurance (gulf ports-Indonesia)       +       40.0       110.3         4. CIF Indonesia       150.3       110.3         5. Conversion to Rupiah *2       1,244       913         6. Losses and port handling       5% +       62       5% -       46         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       1,346       827         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Ex-wholesaler price       1,266       747       71       Local transportation and handling losses       -       50       -       50         11. Local transportation and handling losses       -       50       -       50       -       50         12. Economic farm gate price       1,216       697       697       700       1.220       7000         13. Weighted average economic farm gate price       99.33%       225.4       99.33%       225.4       50       -       40         2. Conversion to Rupiah *2       2,156       1,866       6. Losses and port handling       5% +       108	1.	Export price, 2005 (constant 1990 price) *1		111.0			111.0	
3. Freight and insurance (gulf ports-Indonesia) + 40.0 4. CIF Indonesia 150.3 110.3 5. Conversion to Rupiah *2 1,244 913 6. Losses and port handling 5% + 62 5% - 46 7. Transportation (port to wholesaler) + 40 - 40 8. Ex-wholesaler 1,346 827 9. Handling and transportation (wholesaler to project area) - 80 - 80 10. Ex-wholesaler price 1,266 747 11. Local transportation and handling losses - 50 - 50 12. Economic farm gate price 1,216 697 (Rounded) 1,220 700 13. Weighted average economic farm gate price (import 100%, export 0%) 1,220 <b>Soybean</b> 1. Export price, 2005 (constant 1990 price) *1 226.9 226.9 2. Adjusted to 2003 constant price 99.33% 225.4 99.33% 225.4 3. Freight and insurance (gulf ports-Indonesia) + 35.0 4. CIF Indonesia 260.4 225.4 5. Conversion to Rupiah *2 2,156 1,866 6. Losses and port handling 5% + 108 5% - 93 7. Transportation (wholesaler) + 40 - 40 8. Ex-wholesaler 2,173 1,733 9. Handling and transportation (wholesaler to project area) - 80 - 50 11. Economic farm gate price (import 100%, export 0%) 2,170 1,600 10. Local transportation and handling losses - 50 - 50 11. Economic farm gate price (import 100%, export 0%) 2,170 1,600 12. Economic farm gate price (import 100%, export 0%) 2,170 1,600 13. Weighted average economic farm gate price (import 100%, export 0%) 2,170 1,600 14. Deviced mice in 2005 at constant 1900 price ** 2,175 8,779	2.	Adjusted to 2003 constant price	99.33%	110.3		99.33%	110.3	
4. CIF Indonesia150.3110.35. Conversion to Rupiah *21,2449136. Losses and port handling5% +625% -467. Transportation (port to wholesaler)+40-408. Ex-wholesaler1,3468279. Handling and transportation (wholesaler to project area)-80-8010. Ex-wholesaler price1,26674711. Local transportation and handling losses-50-5012. Economic farm gate price1,216697697(Rounded)1,2207001,22070013. Weighted average economic farm gate price (import 100%, export 0%)1,220700Soybean1. Export price, 2005 (constant 1990 price) *1226.9226.92. Adjusted to 2003 constant price99.33%225.499.33%225.43. Freight and insurance (gulf ports-Indonesia)+35.01,8666. Losses and port handling5% +1085% -937. Transportation (port to wholesaler)+40-408. Ex-wholesaler2,3031,7331,6039. Handling and transportation (wholesaler to project area)-80-8010. Local transportation (wholesaler to project area)-80-5011. Economic farm gate price2,1731,6031,7331,60312. Economic farm gate price2,1731,6031,7331,60310. Local transportation (wholesaler to project area) </td <td>3.</td> <td>Freight and insurance (gulf ports-Indonesia)</td> <td>+</td> <td>40.0</td> <td></td> <td></td> <td></td> <td></td>	3.	Freight and insurance (gulf ports-Indonesia)	+	40.0				
5. Conversion to Rupiah *2       1,244       913         6. Losses and port handling $5\% +$ $62$ $5\%  46$ 7. Transportation (port to wholesaler)       + $40$ - $40$ 8. Ex-wholesaler       1,346 $827$ 9. Handling and transportation (wholesaler to project area)       - $80$ - $80$ 10. Ex-wholesaler price       1,266       747         11. Local transportation and handling losses       - $50$ - $50$ 12. Economic farm gate price       1,216 $697$ $700$ (Rounded)       1,220 $700$ $700$ 13. Weighted average economic farm gate price (import 100%, export 0%) $1,220$ $700$ Soybean       1 $226.9$ $226.9$ $226.9$ 2. Adjusted to 2003 constant price $99.33\%$ $225.4$ $99.33\%$ $225.4$ 3. Freight and insurance (gulf ports-Indonesia)       + $35.0$ $4$ $215.4$ $5\%  93$ 7. Transportation to Rupiah *2 $2,156$ $1,866$ $6$ Losses and port handling $5\% +$ $108$ $5\%  93$	4.	CIF Indonesia		150.3			110.3	
6. Losses and port handling $5\% +$ $62$ $5\%  46$ 7. Transportation (port to wholesaler)       + $40$ - $40$ 8. Ex-wholesaler       1,346       827         9. Handling and transportation (wholesaler to project area)       - $80$ - $80$ 10. Ex-wholesaler price       1,266       747         11. Local transportation and handling losses       - $50$ - $50$ 12. Economic farm gate price       1,216 $697$ $(Rounded)$ $1,220$ $700$ 13. Weighted average economic farm gate price (import 100%, export 0%) $1,220$ $700$ $1,220$ Soybean       1 $226.9$ $226.9$ $226.9$ $226.9$ 2. Adjusted to 2003 constant price $99.33\%$ $225.4$ $99.33\%$ $225.4$ 3. Freight and insurance (gulf ports-Indonesia)       + $35.0$ $4$ $215.4$ $5\%  93$ 7. Transportation (port to wholesaler)       + $40$ - $40$ $40$ $8$ $82.7$ $40$ $5\%  93$ $7$ . Transportation (wholesaler to project area)       - $80$	5.	Conversion to Rupiah *2			1,244			913
7. Transportation (port to wholesaler)+40-408. Ex-wholesaler1,3468279. Handling and transportation (wholesaler to project area)-80-8010. Ex-wholesaler price1,26674711. Local transportation and handling losses-50-5012. Economic farm gate price1,216697697(Rounded)1,22070011.22070013. Weighted average economic farm gate price (import 100%, export 0%)1,22070014. Export price, 2005 (constant 1990 price) *1226.9226.922. Adjusted to 2003 constant price99.33%225.499.33%225.43. Freight and insurance (gulf ports-Indonesia)+35.041.8664. CIF Indonesia260.4225.49371.8666. Losses and port handling5% +1085% -937. Transportation (port to wholesaler)+40-408. Ex-wholesaler2,3031.7331,66310. Local transportation and handling losses-50-5011. Economic farm gate price2,1731,6031,6002,1701,60012. Weighted average economic farm gate price (import 100%, export 0%)2,1701,6002,170	6	Losses and port handling	5% +		62	5% -		46
8Ex-wholesaler1,3468279Handling and transportation (wholesaler to project area)-80-8010Ex-wholesaler price1,26674711Local transportation and handling losses-50-5012Economic farm gate price1,216697697(Rounded)1,220700170013Weighted average economic farm gate price (import 100%, export 0%)1,220700Soybean1Export price, 2005 (constant 1990 price) *1226.9226.92Adjusted to 2003 constant price99.33%225.499.33%225.43Freight and insurance (gulf ports-Indonesia)+35.04215.44CIF Indonesia260.4225.41,8666Losses and port handling5% +1085% -937Transportation (port to wholesaler)+40-408Ex-wholesaler2,3031,7331,6039Handling and transportation (wholesaler to project area)-80-8010Local transportation and handling losses-50-5011Economic farm gate price2,1731,603(Rounded)1,21012Weighted average economic farm gate price (import 100%, export 0%)2,1701,60012Weighted average economic farm gate price (import 100%, export 0%)2,1701,60010ZZZZ <td>7</td> <td>Transportation (port to wholesaler)</td> <td>+</td> <td></td> <td>40</td> <td>-</td> <td></td> <td>40</td>	7	Transportation (port to wholesaler)	+		40	-		40
9 Handling and transportation (wholesaler to project area) - 80 - 80 10 Ex-wholesaler price 1,266 747 11 Local transportation and handling losses - 50 - 50 12 Economic farm gate price (import 100%, export 0%) 1,220 13 Weighted average economic farm gate price (import 100%, export 0%) 1,220 50ybean 1 Export price, 2005 (constant 1990 price) *1 226.9 226.9 2 Adjusted to 2003 constant price 99.33% 225.4 99.33% 225.4 3 Freight and insurance (gulf ports-Indonesia) + 35.0 4 CIF Indonesia 260.4 225.4 5 Conversion to Rupiah *2 2,156 1,866 6 Losses and port handling 5% + 108 5% - 93 7. Transportation (port to wholesaler) + 40 - 40 8 Ex-wholesaler 2,303 1,733 9 Handling and transportation (wholesaler to project area) - 80 - 80 10 Local transportation and handling losses - 50 - 50 11 Economic farm gate price (import 100%, export 0%) 2,170 12 Weighted average economic farm gate price (import 100%, export 0%) 2,170 *1 Projected nrice in 2005 at constant 1990 price *2 Exchange Rate as of May 2003 (US\$1,00=PD \$, 279)	8.	Ex-wholesaler			1,346			827
10Ex-wholesaler price1,26674711Local transportation and handling losses-50-5012Economic farm gate price1,216697697(Rounded)1,22070011,22070013Weighted average economic farm gate price (import 100%, export 0%)1,220700Soybean1Export price, 2005 (constant 1990 price) *1226.9226.92.Adjusted to 2003 constant price99.33%225.499.33%225.43.Freight and insurance (gulf ports-Indonesia)+35.04CIF Indonesia260.4225.44.CIF Indonesia260.4225.41,8661,8661,8666.Losses and port handling5% +1085% -937.Transportation (port to wholesaler)+40-408.Ex-wholesaler2,3031,7331,6039.Local transportation (wholesaler to project area)-80-8010.Local transportation and handling losses-50-505011.Economic farm gate price2,1731,603(Rounded)2,1701,60012.Weighted average economic farm gate price (import 100%, export 0%)2,1702,1701,600	9	Handling and transportation (wholesaler to proje	ect area) -		80	-		80
11Local transportation and handling losses-50-5012Economic farm gate price1,216697(Rounded)1,22070013Weighted average economic farm gate price (import 100%, export 0%)1,220Soybean1Export price, 2005 (constant 1990 price) *1226.92Adjusted to 2003 constant price99.33%225.43Freight and insurance (gulf ports-Indonesia)+35.04CIF Indonesia260.4225.45Conversion to Rupiah *22,1561,8666Losses and port handling5% +1085% -97Transportation (port to wholesaler)+40-4Mandling and transportation (wholesaler to project area)-80-10Local transportation and handling losses-50-5011Economic farm gate price2,1731,603(Rounded)2,1701,60012Weighted average economic farm gate price (import 100%, export 0%)2,1702,1701,600	10	Ex-wholesaler price			1,266			747
12. Economic farm gate price1,216697(Rounded)1,22070013. Weighted average economic farm gate price (import 100%, export 0%)1,220Soybean1. Export price, 2005 (constant 1990 price) *1226.92. Adjusted to 2003 constant price99.33%225.43. Freight and insurance (gulf ports-Indonesia)+35.04. CIF Indonesia260.4225.45. Conversion to Rupiah *22,1561,8666. Losses and port handling5% +1087. Transportation (port to wholesaler)+408. Ex-wholesaler2,3031,7339. Handling and transportation (wholesaler to project area)-8010. Local transportation and handling losses-5011. Economic farm gate price2,1731,603(Rounded)2,1701,60012. Weighted average economic farm gate price (import 100%, export 0%)2,170	11	Local transportation and handling losses	-		50	-		50
Image: Rest of the second s	12	Economic farm gate price			1,216			697
13. Weighted average economic farm gate price (import 100%, export 0%)1,220Soybean1. Export price, 2005 (constant 1990 price) *1226.92. Adjusted to 2003 constant price99.33%225.43. Freight and insurance (gulf ports-Indonesia)+35.04. CIF Indonesia260.4225.45. Conversion to Rupiah *22,1561,8666. Losses and port handling5% +1085% -7. Transportation (port to wholesaler)+40-8. Ex-wholesaler2,3031,7339. Handling and transportation (wholesaler to project area)-80-10. Local transportation and handling losses-50-5011. Economic farm gate price2,1731,6032,1701,603(Rounded)2,1701,6002,1702,17012. Weighted average economic farm gate price (import 100%, export 0%)2,1702,170		(Rounded)			1,220			700
Soybean1. Export price, 2005 (constant 1990 price) *1226.92. Adjusted to 2003 constant price99.33%225.43. Freight and insurance (gulf ports-Indonesia)+35.04. CIF Indonesia260.4225.45. Conversion to Rupiah *22,1561,8666. Losses and port handling5% +1085% -7. Transportation (port to wholesaler)+40-8. Ex-wholesaler2,3031,7339. Handling and transportation (wholesaler to project area)-80-10. Local transportation and handling losses-50-11. Economic farm gate price2,1731,603(Rounded)2,1701,60012. Weighted average economic farm gate price (import 100%, export 0%)2,170	13	Weighted average economic farm gate price	(import 100	%, export 0%	<i>(</i> ₀ )			1,220
1. Export price, 2005 (constant 1990 price) *1226.9226.92. Adjusted to 2003 constant price99.33%225.499.33%3. Freight and insurance (gulf ports-Indonesia)+35.04. CIF Indonesia260.4225.45. Conversion to Rupiah *22,1561,8666. Losses and port handling5% +1085% -7. Transportation (port to wholesaler)+40-8. Ex-wholesaler2,3031,7339. Handling and transportation (wholesaler to project area)-80-10. Local transportation and handling losses-50-5011. Economic farm gate price2,1731,603(Rounded)2,1701,60012. Weighted average economic farm gate price (import 100%, export 0%)2,1702,1702,170	Soybe	an	<b>`</b>	· 1	/			,
2. Adjusted to 2003 constant price $99.33\%$ $225.4$ $99.33\%$ $225.4$ 3. Freight and insurance (gulf ports-Indonesia)+ $35.0$ $260.4$ $225.4$ 4. CIF Indonesia $260.4$ $225.4$ $1,866$ 6. Losses and port handling $5\% +$ $108$ $5\%  93$ 7. Transportation (port to wholesaler)+ $40$ - $40$ 8. Ex-wholesaler $2,303$ $1,733$ 9. Handling and transportation (wholesaler to project area)- $80$ - $80$ 10. Local transportation and handling losses- $50$ - $50$ 11. Economic farm gate price $2,173$ $1,603$ $1,603$ (Rounded) $2,170$ $1,600$ $2,170$ $1,600$ 12. Weighted average economic farm gate price (import 100%, export 0%) $2,170$ $2,170$	. 1	Export price, 2005 (constant 1990 price) *1		226.9			226.9	
3. Freight and insurance (gulf ports-Indonesia)+ $35.0$ 4. CIF Indonesia $260.4$ $225.4$ 5. Conversion to Rupiah *2 $2,156$ $1,866$ 6. Losses and port handling $5\% +$ $108$ $5\% -$ 937. Transportation (port to wholesaler)+ $40$ -8. Ex-wholesaler $2,303$ $1,733$ 9. Handling and transportation (wholesaler to project area)- $80$ -10. Local transportation and handling losses- $50$ - $50$ 11. Economic farm gate price $2,173$ $1,603$ $(Rounded)$ $2,170$ $1,600$ 12. Weighted average economic farm gate price (import 100%, export 0%) $2,170$ $2,170$	2	Adjusted to 2003 constant price	99.33%	225.4		99.33%	225.4	
4. CIF Indonesia $260.4$ $225.4$ 5. Conversion to Rupiah *2 $2,156$ $1,866$ 6. Losses and port handling $5\% +$ $108$ $5\% -$ 7. Transportation (port to wholesaler)+ $40$ -8. Ex-wholesaler $2,303$ $1,733$ 9. Handling and transportation (wholesaler to project area)- $80$ -10. Local transportation and handling losses- $50$ - $50$ 11. Economic farm gate price $2,173$ $1,603$ $1,603$ (Rounded) $2,170$ $1,600$ $2,170$ $2,170$ 12. Weighted average economic farm gate price (import 100%, export 0%) $2,170$ $2,170$		Freight and insurance (gulf ports-Indonesia)	+	35.0				
5. Conversion to Rupiah *2       2,156       1,866         6. Losses and port handling       5% +       108       5% -       93         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       2,303       1,733       1,733         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Local transportation and handling losses       -       50       -       50         11. Economic farm gate price       2,173       1,603       1,603         (Rounded)       2,170       1,600       2,170       2,170	4	CIF Indonesia		260.4			225.4	
6. Losses and port handling       5% +       108       5% -       93         7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       2,303       1,733       1,733         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Local transportation and handling losses       -       50       -       50         11. Economic farm gate price       2,173       1,603         (Rounded)       2,170       1,600         12. Weighted average economic farm gate price (import 100%, export 0%)       2,170       2,170	5	Conversion to Rupiah *2			2.156			1.866
7. Transportation (port to wholesaler)       +       40       -       40         8. Ex-wholesaler       2,303       1,733       1,733         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Local transportation and handling losses       -       50       -       50         11. Economic farm gate price       2,173       1,603         (Rounded)       2,170       1,600         12. Weighted average economic farm gate price (import 100%, export 0%)       2,170       2,170	6	Losses and port handling	5% +		108	5% -		93
8. Ex-wholesaler       2,303       1,733         9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Local transportation and handling losses       -       50       -       50         11. Economic farm gate price       2,173       1,603         (Rounded)       2,170       1,600         12. Weighted average economic farm gate price (import 100%, export 0%)       2,170       2,170	0. 7	Transportation (port to wholesaler)	+		40	-		40
9. Handling and transportation (wholesaler to project area)       -       80       -       80         10. Local transportation and handling losses       -       50       -       50         11. Economic farm gate price       2,173       1,603         (Rounded)       2,170       1,600         12. Weighted average economic farm gate price (import 100%, export 0%)       2,170       2,170         *1 Projected price in 2005 at constant 1990 price       *2 Exchange Bate as of May 2003 (US\$1 00=Rp. 8 279)	7. 8	Ex-wholesaler			2 303			1 733
10. Local transportation and handling losses       -       50       -       50         11. Economic farm gate price       2,173       1,603         (Rounded)       2,170       1,600         12. Weighted average economic farm gate price (import 100%, export 0%)       2,170       2,170         *1. Projected price in 2005 at constant 1990 price       *2 Exchange Rate as of May 2003 (US\$1.00=Rp. 8.279)       2,170	0.	Handling and transportation (wholesaler to proje	ct area) -		2,000	-		80
10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.     10. <td>9. 10</td> <td>Local transportation and handling losses</td> <td></td> <td></td> <td>50</td> <td>-</td> <td></td> <td>50</td>	9. 10	Local transportation and handling losses			50	-		50
11. Exclusion and gate price     2,175     1,005       (Rounded)     2,170     1,600       12. Weighted average economic farm gate price (import 100%, export 0%)     2,170       *1 Projected price in 2005 at constant 1990 price     *2 Exchange Rate as of May 2003 (US\$1.00=Rp. 8.279)	10.	Economic farm gate price	-		2 173	-		1 603
12. Weighted average economic farm gate price (import 100%, export 0%)       2,170       1,000         *1 Projected price in 2005 at constant 1990 price       *2 Exchange Rate as of May 2003 (US\$1.00=Rp. § 279)	11.	(Rounded)			2,170			1,005
*1 Projected price in 2005 at constant 1990 price *2 Exchange Rate as of May 2003 (US\$1 00=Rp & 270)	10	Weighted average economic farm gate price	(import 1000	6 export 00	2,170			2 170
	<u>12</u> . *1	Projected price in 2005 at constant 1990 price	(port 100) **	Exchange Pa	te as of May	2003 (US\$1 00=	Rn 8 279)	2,170

## Table B-6.2.2 Estimation of Economic Prices

Source: World Bank, Global Economic Prospects 2003. *3 Thai, white, milled, 5% broken, FOB Bangkok.

							(2/2)
		Imj	port Parity		E	xport Parity	
	Item	Operation	US\$/ton	Rp/kg	Operation	US\$/ton	Rp/kg
Grou	ndnut						
1.	Export price, 2005 (constant 1990 price) *1		791.6			791.6	
2.	Conversion to price of shelled groundnut	63%	498.7		63%	498.7	
3.	Adjusted to 2003 constant price	99.33%	495.4		99.33%	495.4	
4.	Freight and insurance (gulf ports-Indonesia)	+	35.0				
5.	CIF Indonesia		530.4			495.4	
6.	Conversion to Rupiah *2			4,391			4,101
7.	Losses and port handling	5% +		220	5% -		205
8.	Transportation (port to wholesaler)	+		40	-		40
9.	Ex-wholesaler			4,650			3,856
10.	Handling and transportation (wholesaler to pro	ject area) -		80	-		80
11.	Local transportation and handling losses	-		50	-		50
12.	Economic farm gate price			4,520			3,726
	(Rounded)			4,520			3,730
13.	Weighted average economic farm gate price	e (import 50%, e	export 50%)				4,130
Urea							
1.	Export price, Europe, bagged, 2005 (constan	t 1990 price) *1				122.3	
2.	Adjusted to 2003 constant price				99.33%	121.5	
3.	FOB Indonesia port					121.5	
4.	Conversion to Rupiah *2						1,006
5.	Transportation (port to wholesaler)				+	-	40
6.	Port handling, storage, and losses				+	-	80
7.	Handling and transportation cost to project	site			+	-	120
8.	Economic price of bagged urea at farm gate	•					1,246
	(Rounded)						1,250
TSP							
1.	Export price, Europe, bagged, 2005 (constan	t 1990 price) *1	144.8			144.8	
2.	Adjusted to 2003 constant price	99.33%	143.8			143.8	
3.	Freight and insurance	+	55.0			1 4 2 0	
4.	CIF Indonesia port		198.8	1.646		143.8	1 101
5.	Conversion to Rupian *2			1,646		100.0	1,191
6.	Port handling, storage, and losses	+		120	+	- 120.0	120
7.	Bagging cost	+		50	+	- 50.0	50
8.	Handling and transportation cost to project	site +		120	+	- 120.0	120
9.	Economic price of bagged ISP at farm gate			1,936		290.0	1,481
	(Rounded)		( 200/)	1,940			1,480
10	weight average economic farm gate price (	import 80%, exp	ort 20%)				1,/10
Potas	Sum Chioride (KCI)	(1000 ·········) *1	110.7				
1.	A diverte d to 2002 constant union	(1990 price) *1	119.7				
2.	Finishe and incompany	99.33%	118.9				
3.	CIE in demonstrate	+	50.0				
4.	CIF Indonesia port		108.9	1 200			
5.	Dort hondling storage			1,398			
6.	Politinanding, storage, and losses	+		120			
7.	Dagging cost	+		50			
8.	Franching and transportation cost to project	site +		1 4 9 9			
9.	(Downdod)	5		1,088			
			E 1 B	1,090	02 (11061 00 5	0.070	
*]	Projected price in 2005 at constant 1990 price	*2	Exchange Rate	as of May, 20	03 (US\$1.00=Rj	p. 8,279)	

## Table B-6.2.2 Estimation of Economic Prices

Source: World Bank, Global Economic Prospects 2003.

Item	Unit	Financial Price (FP) *1	Economic Price *2
(1) Farm Products			
Paddy	(Rp/kg)	1,300	1,390
Maize	(Rp/kg)	1,100	1,220
(2) Seeds			
Paddy	(Rp/kg)	2,000 & 3,000	2,000 & 3,000
Maize	(Rp/kg)	4,000	4,000
Maize (Hybrid)	(Rp/kg)	22,000	22,000
(3) Fertilizers			
Urea	(Rp/kg)	1,300	1,250
TSP	(Rp/kg)	1,900	1,710
KCl	(Rp/kg)	1,900	1,690
ZA *3	(Rp/kg)	1,400	1,250
(4) Agro-chemicals			
Insecticide (liquid type)	(Rp/lit)	50,000	50,000
Insecticide (powder type)	(Rp/kg)	30,000	30,000
Herbicide	(Rp/lit)	30,000	30,000
Rodenticide	(Rp/kg)	35,000	35,000
(5) Hired Labor			
Labor	(Rp/man-day)	Financial pr	rices x 0.8
Contracted works			
- Planting/transplanting	(Rp)	Financial pr	rices x 0.8
- Harvesting	(Rp)	Financial pr	rices x 0.8
(6) Land Preparation Work (mad	chinery)	Financial pr	rices x 1.0
(7) Shelling Cost		Financial pr	rices x 0.8
(8) Field Transportation Cost		Financial price	e x SCF (0.9)

## Table B-6.2.3 Economic Prices: Summary Table

*2 Projected Prices in 2005 *3 ZA is estimated as equivalent to Urea

			Paddy							
		II 's D '		Rainfed	Paddy 1/		Irrigate	d Paddy	Ma	ize
Items	Unit	(Rp 000)	Rainfe	d Field	Rainfed (	Condition	Wet/Dr	y Season	(Comj	posite)
		(Rp. 000)	O'tv	Value	O'tv	Value	O'tv	Value	O'ty	Value
			Qty	(Rp. 000)	Qty	(Rp. 000)	Qty	(Rp. 000)	्रापु	(Rp. 000)
1. Gross Return										
Unit Yield	(t/ha)		2.0		2.5		4.0		3.0	
Unit Price	(Rp.000/t)			1,390		1,390		1,390		1,220
Gross Return	(Rp.000)			2,780		3,475		5,560		3,660
2. Production cost				1,769		1,941		2,579		1,867
2-1. Farm Inputs				235		286		514		485
Seed 2/	(kg)		30	60	30	60	30	60	30	120
Fertilizers				125		176		361		315
- Urea	(kg)	1.25	100	125	100	125	150	188	150	188
- SP36	(kg)	1.71	0	0	30	51	50	86	50	86
- KCl	(kg)	1.69	0	0	0	0	30	51	25	42
- ZA	(kg)	1.25	0	0	0	0	30	38		0
Agro chemicals				50		50		93		50
- Insecticide (liquid)	(lit)	50	1.0	50	1.0	50	1.5	75	1.0	50
- Insecticide (powder)	(kg)	30								
- Rodenticide	(kg)	35					0.5	18		
- Herbicide	(kg)	30								
				1.000				1.460		1.0.00
2-2. Labor Costs				1,022		1,123		1,469		1,066
Contracted Works	()	F 0.0	1	200	1	200	1	200		
- Planting/Transplanting 3/	(unit)	F x 0.8	1	288	1	288	1	288		
- Harvesting	(unit)									
Labor Requirements					10					
- Hired Labor	(man-day)	14	16	230	18	259	38	547	12	173
- Family Labor	(man-day)	14	35	504	40	576	44	634	62	893
Total	(man-day)		51		58		82		74	
2.3. Land Propagation				200		280		290		0
2-5. Land Freparation	(unit)		1	380	1	380	1	380		0
- Machinery	(unit)		1	380	1	580	1	580		
- Dian Anniai	(unit)									
2-4 Field Transportation 4/	(LS)	F x 0 9		47		59		94		59
	(1.5.)	1 11 01.9								
2-5. Shelling Cost		Rp. 56/kg								168
										100
2-6. Miscellaneous Expenses	(L.S.)		5 %	84	5 %	92	5 %	123	5 %	89
3. Net Return	Rp.000		2 /0	1.011	2 /0	1.534	2 /0	2.981	2.0	1.793
	%			36		44		54		49
	Rounded	%		1.010		1.530		2.980		1.790

## Table B-6.2.4 Economic Crop Budget per Ha under Present/Without Project

1/: Rainfed paddy --- paddy in rainfed paddy field; rainfed condition --- paddy grown under rainfed condition in irrigation command area 2/: Seed price: Paddy Rp. 2,000/kg; Maize --- composite Rp. 4,000/kg

3/: Contract work for transplanting assumed --- Financial cost x 0.8

4/: Financial cost x 0.8

Herry         Image by the part of											
Ierrs         Unit         Unit         Wet-resord         Op-serve         Wet-resord         Op-serve         Op			II S D S		Newly Irri	gated Field		Current Iri	rigated Field	Ma	iize
No.         ON         Value (Rp. 00)         ON         Value (Rp. 00)         ON         Value (Rp. 00)         ON         Value (Rp. 00)           1.         Gross Return         (Ind)         Ind         I	Items	Unit	(Rp. 000)	Wet S	eason	Dry S	Season	Wet/Dr	y Season	(Hy	brid)
I         C         Rp 000				O'tv	Value	O'tv	Value	O'tv	Value	O'tv	Value
1. Gross Return         (b)         (c)					(Rp. 000)		(Rp. 000)		(Rp. 000)		(Rp. 000)
Unit Yield         (ha)         40         45         50         50         50           Unit Price         (Rp. 000)         1.290         1.390         1.390         1.390         1.220           Gross Return         (Rp. 000)         0         5.56         0.258         0.950         6.095           2. Frank Indust         R         1         1         2.579         1         2.783         2.866         1.090           2. Frank Indust         R         1         1         1         1.09         1.090         3.000         3.00         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3.000         3	1. Gross Return										
Lin Prob         (Rp. 000)         (Rp. 000) <t< td=""><td>Unit Yield</td><td>(t/ha)</td><td></td><td>4.0</td><td></td><td>4.5</td><td></td><td>5.0</td><td></td><td>5.0</td><td></td></t<>	Unit Yield	(t/ha)		4.0		4.5		5.0		5.0	
Gross Return         (Rp, 000) $<$ 5.560 $<$ 6.285 $<$ 6.909 $<$ 6.109           2. Production cost         -         -         2.579         .         2.793         .         2.866         .         3.033           2.1. Farm Inputs         -         -         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .	Unit Price	(Rp. 000/t)			1,390		1,390		1,390		1,220
2. Production cost     image: state of the s	Gross Return	(Rp. 000)			5,560		6,255		6,950		6,100
Image: constraint of the second se	2. Production cost				2,579		2,793		2,866		3,033
2-1. Fam inputs $$ $514$ $6-9$ $-707$ $-707$ $-707$ Sed 2/       (kg)       1       30       60       30       90       20       440         Fertilizers       1       1       50       451       1       494       506         -Urea       (kg)       1.12       150       188       175       219       175       219       200       250         -SP36       (kg)       1.17       50       68       50       68       50       68       50       65       128       100       171         -KC1       (kg)       1.16       30       51       50       65       50       65       60       68       707       128       100       171         -KC1       (kg)       1.15       30       51       50       65       65       65       65       15       10       30       115       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15       15											
Seed 2'         (kg)	2-1. Farm Inputs				514		649		707		1,098
Fertilizers         Image: Marcine Ma	Seed 2/	(kg)		30	60	30	90	30	90	20	440
Fertilizers $int         int         int< int<$											
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Fertilizers				361		451		494		506
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	- Urea	(kg)	1.25	150	188	175	219	175	219	200	250
· CC1       (kg)       1.69       30       51       50       85       50       85       50       85         · ZA       (kg)       1.25       30       33       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       63       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       50       53       518       50       518       50       518       50       518       50       518       50       518       516       518       516	- SP36	(kg)	1.71	50	86	50	86	75	128	100	171
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	- KCl	(kg)	1.69	30	51	50	85	50	85	50	85
Agro chemicals         Image: biology of the sector o	- ZA	(kg)	1.25	30	38	50	63	50	63		0
Agro chemicals       Image: state of the s											
	Agro chemicals				93		108		123		153
	- Insecticide (liquid)	(lit)	50	1.5	75	1.5	75	1.5	75	1.5	75
- Rodenticide       (kg)       35       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       18       0.5       16       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	- Insecticide (powder)	(kg)	30			0.5	15	1.0	30		
Herbicide         (kg)         30 $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$	- Rodenticide	(kg)	35	0.5	18	0.5	18	0.5	18	0.5	18
Image: sector of the sec	- Herbicide	(kg)	30							2.0	60
2-2. Labor Costs         (mi) $I, 469$ $I, 526$ $I, 526$ $I, 526$ $I, 411$ Contracted Works         (mi)         Fx 0.8         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         1         288         148         634         44         634         44         634         44         634         468         979         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1											
Contracted Works       Image: contracted Works	2-2. Labor Costs				1,469		1,526		1,526		1,411
- Planting/Transplanting       (unit)       F x 0.8       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       1       288       43       44       634       44       634       648       6979        - Family Labor      (man-day)      14      444      634      444      634      444       634       468       6979        - Cat      (man-day)      101      820      1380      1380      1380      1380      1380       1380       1380       1380       1380       1380       1380 <td>Contracted Works</td> <td></td>	Contracted Works										
- Harvesting         (unit)         (III)         (III)         (III)         (IIII)         (IIIII)         (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	- Planting/Transplanting	(unit)	F x 0.8	1	288	1	288	1	288		
Labor Requirements       Image: constraint of the sector of	- Harvesting	(unit)									
- Hired Labor       (man-day)       14       38       547       42       605       42       605       30       432         - Family Labor       (man-day)       14       44       634       44       634       44       634       44       634       68       979         Total       (man-day)       14       44       634       44       634       44       634       44       634       44       634       44       634       68       979         Total       (man-day)       14       82       86       86       98       979         Constraint       (man-day)       14       380       16       380       380       380       98       98         2-3. Land Preparation       (unit)       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380       1       380<	Labor Requirements										
- Family Labor       (man-day)       14       44       634       44       634       44       634       68       979         Total       (man-day)       82       86       86       86       86       98         Constraint       (man-day)       1       82       86       86       86       98         2-3. Land Preparation         380        380        380        380	- Hired Labor	(man-day)	14	38	547	42	605	42	605	30	432
Total       (man-day) $82$ $86$ $86$ $98$ 2-3. Land Preparation       Image: Constraint of the second s	- Family Labor	(man-day)	14	44	634	44	634	44	634	68	979
2-3. Land Preparation       Image: constraint of the symbol of the symb	Total	(man-day)		82		86		86		98	
2-3. Land Preparation											
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2-3. Land Preparation				380		380		380		0
- Draft Animal       (unit)       Image: constraint of the second	- Machinery	(unit)		1	380	1	380	1	380		
2-4. Field Transportation 4/       (L.S.)       F x 0.9       2 %       94       2 %       105       2 %       117       2 %       99         2-4. Field Transportation 4/       (L.S.)       F x 0.9       2 %       94       2 %       105       2 %       117       2 %       99         2-5. Shelling Cost       Rp.56/kg            280         2-6. Miscellaneous Expenses       (L.S.)       5 %       123       5 %       133       5 %       136       5 %       144         3. Net Return       Rp.000       2,981       3,462       4,084       3,067         %       54       55       59       50       50       50	- Draft Animal	(unit)									
2-4. Field Transportation 4/       (L.S.)       F x 0.9       2%       94       2%       105       2%       117       2%       99         2-5. Shelling Cost       Rp.56/kg            280         2-6. Miscellaneous Expenses       (L.S.)       5%       123       5%       133       5%       136       5%       144         3. Net Return       Rp.000       2,981       3,462       4,084       3,067         %       54       55       59       50       50       50											
2-5. Shelling Cost         Rp.56/kg         Image: Cost of the sector of	2-4. Field Transportation 4/	(L.S.)	F x 0.9	2 %	94	2 %	105	2 %	117	2 %	99
2-5. Shelling Cost         Rp.56/kg         280           2-6. Miscellaneous Expenses         (L.S.)         5%         123         5%         133         5%         136         5%         144           3. Net Return         Rp.000         2,981         3,462         4,084         3,067           %         54         55         59         50         50			D 563								
2-6. Miscellaneous Expenses         (L.S.)         5 %         123         5 %         133         5 %         136         5 %         144           3. Net Return         Rp.000         2,981         3,462         4,084         3,067           %         54         55         59         50           Rounded         2,084         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080         2,080 <td>2-5. Shelling Cost</td> <td></td> <td>Kp.56/kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>280</td>	2-5. Shelling Cost		Kp.56/kg								280
2-0. MISCENERICUS Expenses         (L.S.)         5 %         123         5 %         133         5 %         130         5 %         144           3. Net Return         Rp.000         2,981         3,462         4,084         3,067           %         54         55         59         50           Rounded         2,084         2,084         2,084         2,084         2,084	2.6 Missellaneser Errorer	(1.5.)		5.07	122	5.07	122	5.0/	126	5.07	144
Kp.000         2,981         3,402         4,084         3,067           %         54         55         59         50           Dounded         2,080         2,400         2,020	2-0. INISCENARCOUS EXPENSES	(L.S.)		5 %	123	5 %	2 4(2	3 %	130	5 %	2 0/7
70         34         33         39         50           Downlod         2,000         2,440         4,000         2,070	5. INCLACIUM	Kp.000			2,981		3,402		4,084		3,00/
		Poundad			2 000		2 160		39		2 070

## Table B-6.2.5 Economic Crop Budget per Ha under With Project

1/: Current irrigated field --- paddy grown in field currently irrigated condition

Current rainfed field --- paddy grown in field currently under rainfed condition

2/: Paddy --- yield level < 4.5 Rp. 2,000; yield level  $\geq$  4.5 Rp. 3,000; Maize hybrid Rp.22,000/kg

3/: Contract work for transplanting assumed --- Financial cost x 0.8

4/: Financial cost x 0.8

## Table B-6.2.6Financial and Economic Net Production Values under<br/>With and Without Project Conditions

		Without Proje	ect	With Project				
Crops/Cropping Season	Area (ha)	Net Return (Rp. 000)	Net Prod. Value (Rp. million)	Area (ha)	Net Return (Rp. 000)	Net Prod. Value (Rp. million)	Increment (Rp. million)	
Irrigated Paddy ^{1/}								
Wet Season	350	3,030	1,061	724	4,010	2,903	1,843	
Dry Season	163	3,030	494	724	4,010	2,903	2,409	
Annual	513		1,554	1,448		5,806	4,252	
Irrigated Paddy ^{2/}								
Wet Season				1,716	3,030	5,199	5,199	
Dry Season				496	3,440	1,706	1,706	
Annual				2,212		6,906	6,906	
Rainfed Paddy ^{3/}								
Wet Season	374	1,750	655					
Rainfed Paddy 4/								
Wet Season	436	1,210	528					
Palawija (maize)								
Wet Season	53	2,250	119					
Dry Season	62	2,250	140	244	3,260	795	656	
Annual	115		259	244		795	537	
Total	1,438		2,995	3,904		13,508	10,512	

## 1. Financial Net Production Value

## 2. Economic Net Production Value

		Without Proj	ect		With	n Project	
Crops/Cropping Season	Area (ha)	Net Return (Rp. 000)	Net Prod. Value (Rp. million)	Area (ha)	Net Return (Rp. 000)	Net Prod. Value (Rp. million)	Increment (Rp. million)
Irrigated Paddy							
Wet Season	350	2,980	1,043	724	4,080	2,954	1,911
Dry Season	163	2,980	486	724	4,080	2,954	2,468
Annual	513		1,529	1,448		5,908	4,379
Newly Irrigated Paddy							
Wet Season				1,716	2,980	5,114	5,114
Dry Season				496	3,460	1,716	1,716
Annual				2,212		6,830	6,830
Rainfed Paddy ^{1/}							
Wet Season	374	1,530	572				
Rainfed Paddy ^{2/}							
Wet Season	436	1,010	440				
Palawija (maize)							
Wet Season	53	1,790	95				
Dry Season	62	1,790	111	244	3,070	749	638
Annual	115		206	244		749	543
Total	1,438		2,747	3,904		13,487	10,740

1/: Irrigated paddy in current irrigated field

2/: Irrigated paddy in newly irrigated field under the rehabilitation plan

3/: Paddy grown under rainfed condition in irrigation command area

4/: Paddy grown in rainfed paddy field

						(Rp. Million)
		Econor	mic Costs		Economic	
Year	Initial Investment	O&M	Replace- ment	Total	Benefit	Balance
1	1,215	416		1,630	0	-1,630
2	1,215	416		1,630	0	-1,630
3	21,953	416		22,368	0	-22,368
4	21,953	416		22,368	3,222	-19,146
5		416		416	6,444	6,028
6		416		416	7,518	7,102
7		416		416	8,592	8,176
8		416		416	9,666	9,250
9		416		416	10,740	10,324
10		416		416	10,740	10,324
11		416	1,570	1,986	10,740	8,754
12		416		416	10,740	10,324
13		416		416	10,740	10,324
14		416		416	10,740	10,324
15		416		416	10,740	10,324
16		416		416	10,740	10,324
17		416		416	10,740	10,324
18		416		416	10,740	10,324
19		416		416	10,740	10,324
20		416		416	10,740	10,324
21		416	1,570	1,986	10,740	8,754
22		416		416	10,740	10,324
23		416		416	10,740	10,324
24		416		416	10,740	10,324
25		416		416	10,740	10,324
26		416		416	10,740	10,324
27		416		416	10,740	10,324
28		416		416	10,740	10,324
29		416		416	10,740	10,324
30		416		416	10,740	10,324
	<b>B-C</b> =	25.034	B/C =	1.65	EIRR =	17.3%

# TableB-6.2.7Annual Economic Costs and Benefit flow and<br/>Results of Economic Evaluation

1.0	Current Irrigated Paddy Field							
		Without/	Present C	Condition	Without	Present C	Condition	Incremental
	Items	Cropped	Net F	Return	Cropped	Net F	Return	Net Return
	Items		per Ha	per Farm	Area	per Ha	per Farm	per Farm
		(ha)	(Rp.000)	(Rp.000)	(ha)	(Rp.000)	(Rp.000)	(Rp.000)
1.	Net Farm Income from 1 Ha of Paddy Field							
	- Irrigated Paddy			4,454			6,015	1,561
	Wet Season	1.00	3,030	3,030	1.00	4,010	4,010	980
	Dry Season	0.47	3,030	1,424	0.50	4,010	2,005	581
	- Rainfed Paddy ^{1/}							
	- Rainfed Paddy							
	- Palawija (maize composite)	0.17	2,250	383				-383
	- Palawija (maize hybrid)				0.10	3,260	326	326
	Total			4,837			6,341	1,504
			Rounded	4,840		Rounded	6,340	1,500
2.	Incremental Family Expenditures ^{2/}			-			634	634
3.	Net Reserve			4,840			5,706	866

## Table B-6.3.1 Farm Budget Analysis on 1 Ha of Paddy Field

2. Paddy Field in Current Irrigation Command Area Being under Rainfed Condition

			/Present C	Condition	Without	Condition		
	Itoma	Cropped	Net F	Return	Cropped	l Net Return		Increment
	Items		per Ha	per Farm	Area	per Ha	per Farm	per Farm
		(ha)	(Rp.000)	(Rp.000)	(ha)	(Rp.000)	(Rp.000)	(Rp.000)
1.	Net Farm Income from 1 Ha of Paddy Field							
	- Irrigated Paddy						4,750	4,750
	Wet Season				1.00	3,030	3,030	3,030
	Dry Season				0.50	3,440	1,720	1,720
	- Rainfed Paddy ^{1/}	1.00	1,750	1,750				
	- Rainfed Paddy							
	- Palawija (maize composite)							
	- Palawija (maize hybrid)				0.10	3,260	326	326
	Total			1,750			5,076	3,326
			Rounded	1,750		Rounded	5,080	3,330
2.	Incremental Family Expenditures ^{3/}			-			1,016	1,016
3.	Net Reserve			1,750			4,064	2,314

#### 3. Rainfed Paddy Field

			/Present C	Condition	Without	Present C	Condition	
	Itoms	Cropped	Net R	Return	Cropped	Net F	Return	Increment
	nems		per Ha	per Farm	Area	per Ha	per Farm	per Farm
			(Rp.000)	(Rp.000)	(ha)	(Rp.000)	(Rp.000)	(Rp.000)
1.	Net Farm Income from 1 Ha of Paddy Field							
	- Irrigated Paddy						4,750	4,750
	Wet Season				1.00	3,030	3,030	3,030
	Dry Season				0.50	3,440	1,720	1,720
	- Rainfed Paddy ^{1/}							
	- Rainfed Paddy	0.89	1,210	1,077				
	- Palawija (maize composite)	0.11	2,250	248				-248
	- Palawija (maize hybrid)				0.10	3,260	326	326
	Total			1,324			5,076	3,752
			Rounded	1,320		Rounded	5,080	3,760
2.	Incremental Family Expenditures ^{3/}			-			1,016	1,016
3.	Net Reserve			1,320			4,064	2,744

1/: Paddy grown under rainfed condition in irrigation command area

2/: Incremental family expenditure under with project condition assumed to be 10% of net return per ha; which to be covered by an income increase from paddy field

^{3/:} Incremental family expenditure under with project condition assumed to be 20% of net return per ha; which to be covered by an income increase from paddy field

# Figures





BF - 2





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## Figure B-3.3.1 Planned Cropping Pattern: Padang Mahondang Irrigation Scheme

Climatic Condition at Medan (mean or average of 1998 to 2002)

DI	<b>S</b> . (	Iten	of Implementation			Year f	rom Co	nmence	ment of	Midter	n Phase		
Phase	Sector	Item	Works	l st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Midterm	1. Irrigation/	Feasibility Study	Procurement of consultant										
	Civil Works		Preparation of F/S										
			Preparation of Implementation Schedule										
	2.Institution	Strengthening Program	Government staff										
			Water Users Association										
			Initial setting-up of FWUA and MWUA										
	3.Project Budg	et	Budget arrangement										
Final	1. Irrigation/	Implementation	Procurement of consultant										
	Civil Works		Detailed design										
			Tender for procurement of contractor				•						
			Civil works for rehabilitation				L	1	2				
	2.Institution	Training and Guidance	O&M for tertiary and on-farm										
			Collection of irrigation service fee and										
			accounting										
			1										
	3. Extension Se	rvice											
		Formulation of task forc	e team										
		Formulation of strength	ening program										
		Identification and confirm	ation of constraints										
		Countermeasures or techn	ology to be introduced for mitigation of										
		constraints	6, 6										
		Preparation of detailed pro	ogram for strengthening										
		Implementation of progr	Implementation of program										
		Preparation of annual program						I					
		Budget arrangement	Budget arrangement					•					
		Preparation of detailed ag	reed plan of operation										
		Preparation extension mat	erials										
		Implementation of program	n, monitoring and evaluation					<b>-</b> -					

## Figure B-5.3.1 Implementation Program of Rehabilitation Work for Padang Mahondang Irrigation Scheme

## Drawings

## List of Drawings

Drawing No	<u>. Title</u>
100	GENERAL
100-01	General Layout
200 200-01	WATER RESOURCES FACILITY Development Plan of Intake Structure
300	CANALS

300-01 Irrigation Diagram and Development Plan of Canals & Related Structures







## Dimension of Main Canal

				Canal Dimension							
нм	вк	Distance (m)	Deslgn discharge (m ³ /s)	Canal bed width (m)	Canal height (m)	Lining height (m)	Uniform water depth (m)	Side slope	Hydraulic gradient		
			Q	В	H + 0.50	Н	d	m	1/I		
0 + 00	BP of MC										
		2,000	3.16	2.00	2.40	1.90	1.30	1.25	6,000		
20 + 00	BK. PM 1										
		1,000	3.12	2.00	2.40	1.90	1.29	1.25	6,000		
30 + 00	BK. PM 2										
		1,000	2.88	2.00	2.40	1.90	1.24	1.25	6,000		
40 + 00	BK. PM 3										
		2,000	2.82	2.00	2.30	1.80	1.22	1.25	6,000		
60 + 00	BK. PM 4										
		2,000	2.04	2.00	2.10	1.60	1.03	1.25	6,000		
80 + 00	BK. PM 5										
		1,000	1.92	2.00	2.10	1.60	1.00	1.25	6,000		
90 + 00	BK. PM 6										

## List of Irrigation Canals and Related Structures

List of Canals					
Name of Canal	Length (m)	Rehabilitation Grade			
Main	9,000	RG4 (New)			
Secondary -1	3,000	RG4 (New)			
(SC-1)					
Secondary -2	4,000	RG4 (New)			
(SC-2)					
Secondary -3	3,000	RG4 (New)			
(SC-3)					
Secondary -4	3,000	RG4 (New)			
(SC-4)					
SC Total	13,000	RG4 (New)			
Rehabilitation Gr	ade :				

RG4 = New Construction

	List of Structu	ires on Ma	aln Canal	
Structure Serial No.	Structure	нм	Name/Code of Structure	Rehabilitation Grade
MC-1	Road Crossing Culvert	5 + 00	BK. PM1b	RG4 (New)
MC-2	Road Crossing Culvert	10 + 00	BK.PM1a	RG4 (New)
MC-3	Division Structure	20 + 00	BK.PM1	RG4 (New)
MC-4	Division Structure	30 + 00	BK.PM2	RG4 (New)
MC-5	Road Crossing Culvert	33 + 00	BK.PM3b	RG4 (New)
MC-6	Drainage Culvert	37 + 00	BK.PM3a	RG4 (New)
MC-7	Division Structure	40 + 00	BK.PM3	RG4 (New)
MC-8	Road Crossing Culvert	50 + 00	BKPM4a	RG4 (New)
MC-9	Division Structure	60 + 00	BK.PM4	RG4 (New)
MC-10	Drainage Culvert	70 + 00	BKPM5a	RG4 (New)
MC-11	Division Structure	80 + 00	BK.PM5	RG4 (New)
MC-12	Division Structure	90 + 00	BK.PM6	RG4 (New)



Drawing 300-01
Padang Mahondang Scheme
 Irrigation Diagram and Development
Plan of Canals & Related Structures