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DIRECTORATE OF PLANNING AND PROGRAMMING,
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
MINISTRY OF PUBLIC WORKS



JAPAN INTERNATIONAL COOPERATION AGENCY
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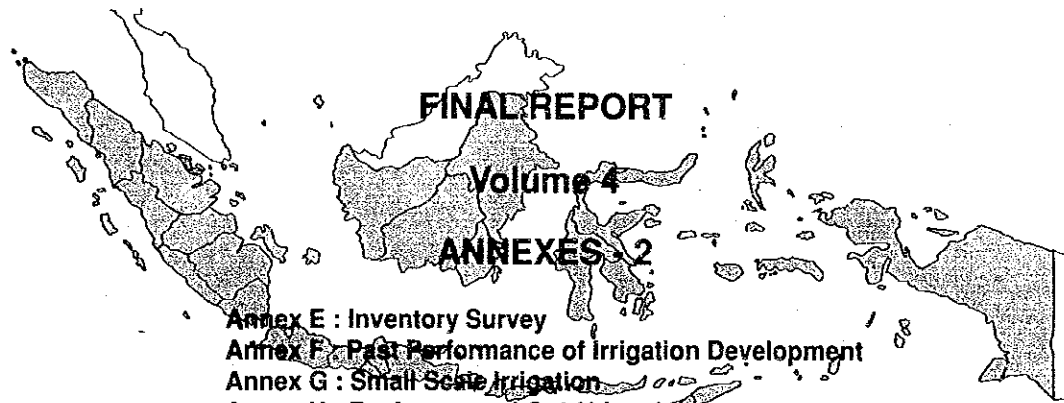


BUREAU OF WATER RESOURCES AND IRRIGATION
B A P P E N A S
REPUBLIC OF INDONESIA

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS

THE STUDY FOR FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM
IN THE REPUBLIC OF INDONESIA

**THE STUDY
FOR
FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM
IN
THE REPUBLIC OF INDONESIA**



- Annex E : Inventory Survey
- Annex F : Past Performance of Irrigation Development
- Annex G : Small Scale Irrigation
- Annex H : Environmental Consideration
- Annex I : Database and Its Management
- Annex J : Land Development

November 1993

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REPUBLIC OF INDONESIA



JAPAN INTERNATIONAL
COOPERATION AGENCY
J A P A N

**THE STUDY
FOR
FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM
IN
THE REPUBLIC OF INDONESIA**

FINAL REPORT

Volume 4

ANNEXES - 2

Annex E : Inventory Survey
Annex F : Past Performance of Irrigation Development
Annex G : Small Scale Irrigation
Annex H : Environmental Consideration
Annex I : Database and Its Management
Annex J : Land Development

November 1993



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- Annex G : Small Scale Irrigation
- Annex H : Environmental Consideration
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Abbreviations

AMDAL	Environmental Impact Assessment
APBN	Anggaran Pendapatan dan Belanja Negara
APBD	Anggaran Pendapatan dan Belanja Daerah
BAPPEDA	Badan Perencanaan Pembangunan Daerah - Provincial Development and Planning Agency
BAPPENAS	Badan Perencanaan Pembangunan Nasional - National Development and Planning Agency
BIMAS	Mass guideline for agricultural development
BPP	Bina Program Pengairan - Planning Division of Water Resources
BULOG	Badan Urusan Logistik - Agency for National Logistics Administration
CBS (BPS)	Central Bureau of Statistics (Biro Pusat Statistik)
DGWRD	Directorate General of Water Resources Development in MPW
DOI	Directorate of Irrigation
DPU	Provincial Public Works
EOM	Efficient Operation and Maintenance
FAO	Food and Agriculture Organization of the United Nations
GIS	Geographical Information System
GOI	Government of Indonesia
IBRD	International Bank for Reconstruction and Development
JICA	Japan International Cooperation Agency
Kanwil	District Office of a Line Agency under Minister
KUD	Village cooperative
MOA	Ministry of Agriculture
MOF	Ministry of Forestry
MOH	Ministry of Home Affairs
MPW	Ministry of Public Works
OECF	Overseas Economic Cooperation Fund, Japan
P3A	Water Users Association
Palawija	Secondary food crops (grown mainly in dry season)
PBME	Project Benefit Monitoring and Evaluation
PIK	Proyek Irigasi Kecil (Handing over small scheme)
PIR	Perkebunan Inti Rakyat (Nuclear Estate Schemes)
PJPT I	Pembangunan Jangka Panjang Tahap I
PJPT II	Pembangunan Jangka Panjang Tahap II
PRAS	Provincial Agricultural Services
PRIS	Provincial Irrigation Services
PU	Ministry of Public Works
Repelita	Rencana Pembangunan Lima Tahun - Five-Year Development Plan
RePPPProt	Regional Physical Planning Program for Transmigration
SUSENAS	Survei Sosial Ekonomi Nasional (National Socio-economic Survey)
USAID	United States Agency for International Development

Annex E
Inventory Survey

ANNEX - E

INVENTORY SURVEY

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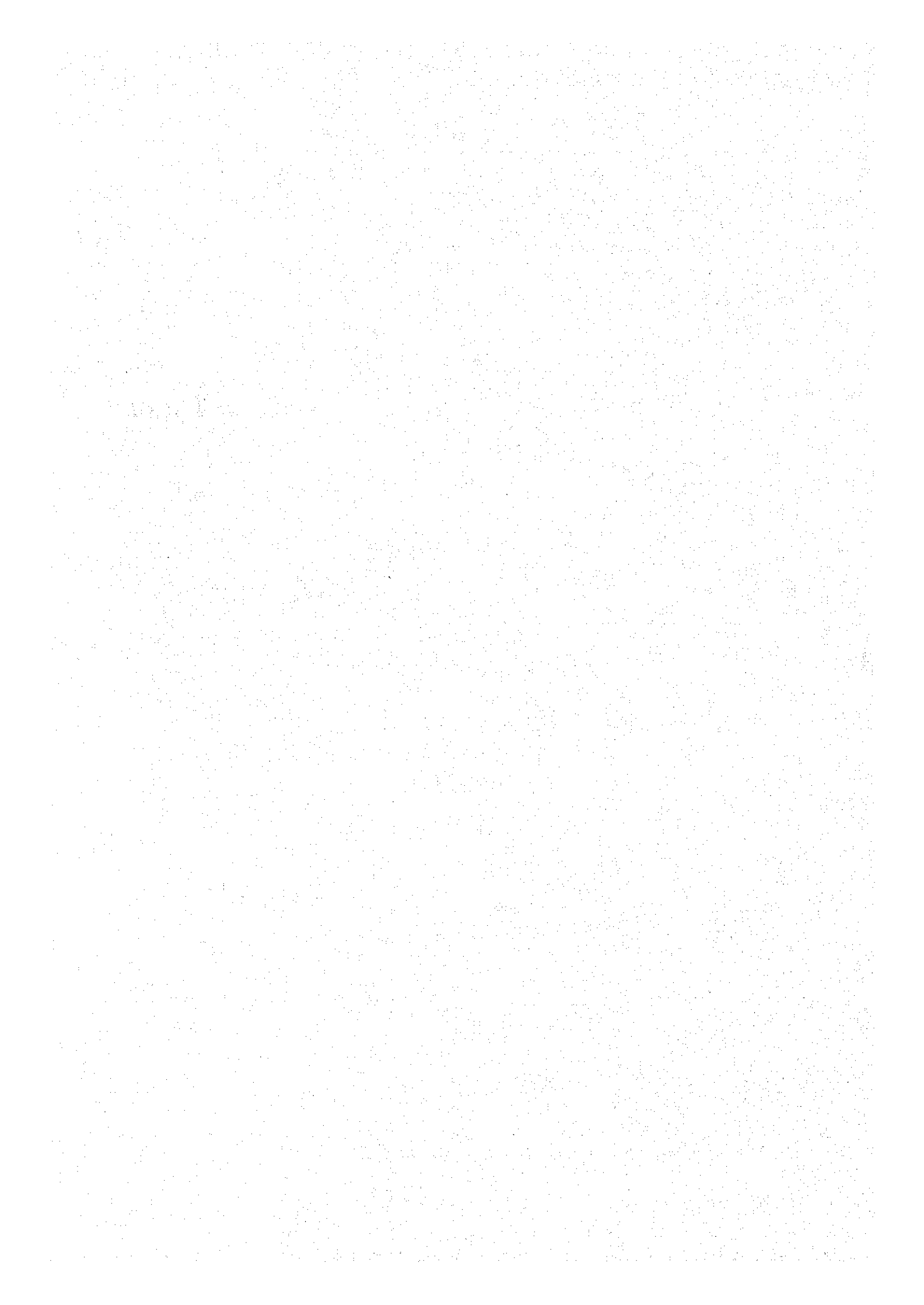
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Text



1 General

An inventory survey on existing irrigation projects under PU was conducted as a part of the study. The objectives of the survey are (1) to collect data on all the irrigation schemes for the study and (2) to clarify the status of irrigation development, especially real development potential and/or necessity of upgrading or special maintenance works for existing schemes and on the study stage and depth for the new development schemes.

2 Procedure

The inventory survey was carried out in the following steps:

- (1) Preparation of questionnaires for the inventory survey,
- (2) Selection of inventoried schemes,
- (3) Selection of local consultant for conducting inventory survey,
- (4) Data collection at each Province and by interview in Jakarta,
- (5) Preparation of computer program for database,
- (6) Data input,
- (7) Data verification and correction, and
- (8) Analysis of collected data.

In the study terminology on irrigation area was defined by mutual agreement between PU and the study team, as shown on Table 2.1 and Figure 2.1.

(1) Preparation of questionnaire

In Phase-I stage, questionnaires for inventory survey were prepared and finalized after trial inventory survey in Jawa Barat. The following three (3) kinds of questionnaires were prepared according to the type of development;

- Surface irrigation development,
- Swamp development, and
- Groundwater development.

Approximate number of questions for each questionnaire is 230 for irrigation development, 140 for Swamp Development, and 60 for Groundwater development.

The questionnaires are attached to Appendix of this Annex.

(2) Selection of inventoried schemes

The schemes to be inventoried were selected from the following sources;

Surface irrigation development scheme

Existing scheme : schemes indicated in "Rekapitulasi Inventarisasi Daerah Irigasi Pemerintah, 1991". However, scheme which planned area is less than 150 ha were excluded from the inventory survey since PU intend to transfer all small scale scheme up to 150 ha to farmers' group.

On-going and Proposed scheme : all schemes indicated in the list of on-going scheme and proposed scheme obtained at Provincial Office.

Swamp development scheme

Existing scheme : schemes indicated in "Inventarisasi Luas Pemamfaatan Lahan Rawa Pasang Surut (PRS) dan Rawa non Pasang Surut (PNPS)" (Inventory of Land Potential on Tidal Swamp and Non-Tidal Swamp). Schemes that function as only fishery were excluded.

On-going and Proposed scheme : all schemes indicated in the list of on-going scheme and proposed scheme obtained at Provincial Office.

Groundwater development scheme

Only data and information of On-going scheme and Proposed scheme will be collected based on scheme list available at Provincial Office. Procedure of Selection of the inventoried scheme is given in Figure. 2.2.

The Inventoried scheme were tentatively estimated as 6,660 in total. Numbers of scheme is summarized below:

Numbers of candidate schemes for inventory survey

	Existing	On-going & Proposed	Total
Surface Irrigation	5,015	997	6,012
Swamp	612	36	648
Groundwater	-	Unknown	-

Source: Buku Inventarisasi 1989, DOI I, Ministry of Public Works

(3) Selection of Local Consultant

The study team, on behalf of JICA, entrusted the inventory survey, such as data collection at Province, data verification and data input, Indonesian consultant, P.T. INDECO DUTA

UTAMA in association with CENTER FOR AGRO SOCIO ECONOMIC RESEARCH. Commencement order was made to the consultant on July 13, 1992.

Before the commencement of the inventory survey, meeting with the consultant was held on July 13, 1992, in order to explain the objective and procedure of the inventory survey and contents of the questionnaire (especially terminology).

(4) Data Collection

After receiving the commencement order, the consultant immediately started data collection at each Province office. Members of the study team visited two provinces (Sulawesi Selatan and Nusa Tenggara Barat) from August 18 to 24, 1992 and monitor the progress of data collection and inspect existing irrigation schemes. Data collection at Province was mostly completed at the end of August, 1992.

However there are many projects of which data were not available at Province. Such projects are mostly under the responsibility of the central office. So supplemental data collection was made through interview to the officials at central office of PU by the study team.

Total numbers of answered questionnaires are shown in Table 2.2 and summarized below:

The number of answered questionnaires

	Distributed	Returned	Rate
Surface Irrigation	6,012	5,993	(99%)
Swamp	648	783	(120%)
Groundwater	unknown	196	-

(5) Preparation of Computer Program

One of the most common relational database application software "d-BASE IV Version 1.1" was used for processing the result of the inventory survey. First, computer programs for data input, data correction, and printout are being made by a system engineer of the study team using internal language of the application software.

Consequently, following kind of programs were prepared for data verification and initial analysis of collected data;

- Programs for checking and classification of entered data,
- Programs for finding arithmetical error and abnormal figures, and,

(6) Data input

All the data filled in the questionnaires were encoded into the computerized database by the consultant in September.

(7) Data verification and correction

Verification of the encoded data was carried out in the subsequent manner. First, all the returned questionnaires were visually checked mainly in respect to name and identification number of scheme against the master list of Buku Inventarisasi of DOI, PU. Second, numeral data were checked by the computer program especially data on project area. Finally, improper data indicated by the computers were re-checked and corrected by original data and other related data. Then computerized database is ready for data analysis.

(8) Data Analysis

Analysis of data obtained from inventory survey were proceeded by using computer program in November, 1992 and result and finding are described in the proceeding sections.

3 Problems

In the course of data verification of inventory survey, following problems are encountered;

Identification of Irrigation Scheme

Some schemes listed in "Rekapitulasi Inventarisasi Daerah Irigasi Pemerintah, 1991" were not found in the returned questionnaires. Reasons for this are considered as follows, although difficult to check:

- Data is not available,
- Scheme no longer exists,
- Scheme has been turned over, and
- Scheme has been renamed and/or integrated.

On the other hand, though inventory survey on existing scheme is carried out based upon master list of DOI, PU, there were some existing schemes that were not found in the master list.

Reliability of data (Discrepancy of filled-up questionnaires)

Data quality was not satisfactory in that of paddy cultivated area. Therefore, expected increase of cropped area after construction/rehabilitation has to be estimated based on another data source.

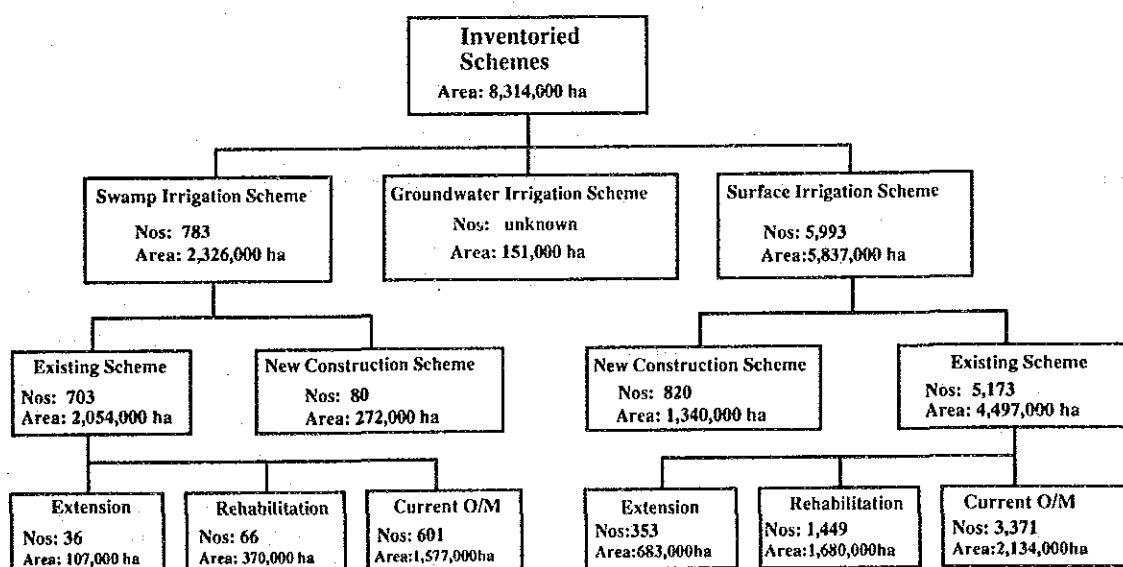
Lack of Data

Very few data were collected in proposed construction / rehabilitation cost. So cost estimates of future development program also have to be based upon another data and information.

4 Classification of Inventoried Schemes

4.1 General

Total numbers of inventoried scheme were 6,776 except groundwater scheme. In respect to ground water scheme, it was very difficult to identify each scheme because one project consists of a lot of small irrigation systems depending on each tube well and its command area. Total designed area of inventoried schemes amounts some 8,314,000 ha. The schemes were classified into several categories by type, stage, size, etc. General classification of the schemes is depicted with number and area in the following chart.



Classification of Inventoried Irrigation Schemes

Irrigation schemes under the responsibility of PU are generally classified into three categories by water source or eco-systems; (i) surface irrigation scheme, (ii) groundwater irrigation

scheme and (iii) swamp irrigation scheme. All those schemes are further classified into two groups by the project stage; (i) new construction scheme and (ii) existing scheme. As for groundwater irrigation scheme, since the project is turned over to the farmers (village irrigation) due to the small scale after the construction, existing schemes will not exist.

Existing schemes consists of programmed and non-programmed. Programmed schemes are classified into two categories; (i) extension and (ii) rehabilitation.

4.2 Surface Irrigation Scheme

4.2.1 Classification by Type of Scheme

For the data analysis, confirmed inventoried schemes are classified into the following types;

- Existing Scheme
 - Rehabilitation Scheme
 - Extension Scheme
 - Current O/M Scheme
- New Construction Scheme

We adopted the following definition to each type of scheme for convenience since construction works and rehabilitation works are very often carried out at once and it is difficult to differentiate one from the other.

Existing Scheme: Scheme where is registered in "Buku Inventarisasi" and has irrigated paddy field area (sawah irigasi) at present. Existing schemes are further divided into three categories,

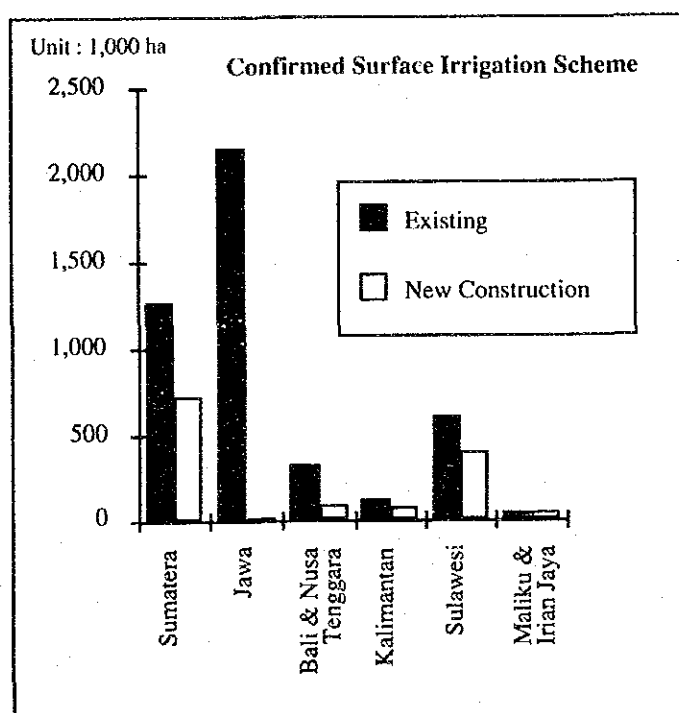
- Rehabilitation Scheme : Schemes in which irrigated paddy field area (or luas sawah irigasi) will not increase after works. This category includes rehabilitation, special maintenance and efficient O&M works.
- Extension Scheme : Schemes in which irrigated paddy field area (or luas sawah irigasi) will increase after works.
- Current O/M Scheme : Schemes in which no construction/rehabilitation works are being made and/or are proposed.

New Construction Scheme : Scheme that has no irrigated paddy field at present condition. So some schemes that are found in "Buku Inventarisasi" are tentatively classified in this category if there is no irrigated paddy field area.

Detail of confirmed surface irrigation scheme is given in Table 4.1 and summarized below; (Unless otherwise specified, values shown in tables in main text and attached tables hereinafter are based upon result of the inventory survey)

Confirmed Surface Irrigation Scheme by Type

	Existing		New Construction		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	1,489	1,266	415	718	1,904	1,984
Jawa	2,475	2,150	19	19	2,494	2,169
Bali & Nusa Tenggara	515	329	154	87	669	416
Kalimantan	167	115	51	73	218	188
Sulawesi	491	600	151	405	642	1,005
Maluku & Irian Jaya	36	38	30	37	66	75
Indonesia	5,173	4,497	820	1,339	5,993	5,837



Existing schemes are summarized below,

Confirmed Existing Surface Irrigation Scheme by Type

	Current O/M		Rehabilitation		Extension		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	846	412	374	421	269	433	1,489	1,266
Jawa	1,730	1,254	731	822	14	74	2,475	2,150
Bali & Nusa Tenggara	374	219	122	88	19	22	515	329
Kalimantan	136	60	15	8	16	47	167	115
Sulawesi	276	185	188	323	27	92	491	600
Maluku & Irian Jaya	9	4	19	18	8	15	36	37
Indonesia	3,371	2,134	1,449	1,680	353	683	5,173	4,497

Of the 5,173 total inventoried existing schemes, 65% or 3,371 are current O/M schemes, 28% or 1,449 are rehabilitation schemes and the remaining 7% or only 353 schemes are extension schemes. Current O/M schemes cover 47 % of total area.

In connection with rehabilitation scheme, extension scheme and new construction scheme, there are two (2) categories, i.e., on-going scheme and proposed scheme. On-going scheme is defined as one where construction and /or rehabilitation and / or extension works is being carried out in current year (1992/93). Therefore, the schemes, that are committed in a particular foreign aid project but are not commenced yet, are categorized into proposed schemes. Detail of on-going schemes are shown in Tables 4.2 and 4.3, respectively, and summarized below:

Summary of On-going Scheme

	Rehabilitation		Extension		New Construction		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	156	229	100	246	12	6	268	481
Jawa	470	601	10	65	10	8	490	674
Bali & Nusa Tenggara	38	45	7	10	11	9	56	64
Kalimantan	6	3	10	38	2	1	18	42
Sulawesi	96	157	9	43	5	18	110	218
Maluku & Irian Jaya	10	9	5	7	0	0	15	16
Indonesia	776	1,043	141	409	40	43	957	1,495

Summary of Proposed Scheme

	Rehabilitation		Extension		New Construction		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	218	192	169	187	403	712	790	1,091
Jawa	261	221	4	8	9	12	274	241
Bali & Nusa Tenggara	84	43	12	13	143	77	239	133
Kalimantan	9	5	6	9	49	72	64	86
Sulawesi	92	166	18	49	146	387	256	602
Maluku & Irian Jaya	9	9	3	8	30	37	42	54
Indonesia	673	636	212	274	780	1,297	1,665	2,207

4.2.2 Potential Expandable Area

In this part, present condition of irrigation scheme according to types will be presented, and increased irrigated paddy field area will be assessed, that value is required to estimate incremental rice production under on-going and proposed PU development program.

(1) Existing Scheme

Current O/M Scheme

The present status of the current O/M areas in inventoried schemes is give in Table 4.4 and summarized below:

Present Status of Surface irrigation Scheme by Region (Current O/M)

	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Irrigated Paddy Field (Sawah Irigasi)		Non-Irrigated Paddy Field
			Area	% of Total Area	
Sumatera	846	412	252	(61%)	160
Jawa	1,730	1,254	1,153	(92%)	101
Bali & Nusa Tenggara	374	219	179	(82%)	40
Kalimantan	136	60	21	(35%)	39
Sulawesi	276	185	108	(58%)	77
Maluku & Irian Jaya	9	4	3	(75%)	1
Indonesia	3,371	2,134	1,716	(80%)	418

Total designed area is about 2,134,000 ha, and the area for which irrigated paddy field is functioned is about 1,716,000 ha, which corresponds to 80% of designed area. The table shows that there still remains 418,000 ha of potential land as irrigated paddy field. Although possibility of area expandability is not discussed in this report, further study in this undeveloped area would be required in order to assess the potential in existing scheme.

Rehabilitation Scheme

Detail of rehabilitation scheme is shown in Tables 4.5 to 4.7 and summarized below:

Present Status of Surface irrigation Scheme by Region (Rehabilitation)

Unit : 1,000 ha

	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Irrigated Paddy Field (Sawah Irigasi)		Non-Irrigated Paddy Field
			Area	% of Total Area	
Sumatera	374	421	335	(80%)	86
Jawa	731	822	803	(98%)	19
Bali & Nusa Tenggara	122	88	72	(82%)	16
Kalimantan	15	8	3	(36%)	5
Sulawesi	188	323	220	(68%)	103
Maluku & Irian Jaya	19	18	6	(33%)	12
Indonesia	1,449	1,680	1,439	(86%)	241

Rehabilitation works are being carried out and / or will be proposed in some 1,450 of existing schemes that have 1,680,000 ha of designed area and 1,439,000 ha of irrigated paddy field at present. In this type, increase of annual cropped area and / or harvested area will be expected by repair work of irrigation facilities. On the other hand, it is also pointed out that there is some 241,000 ha that has not been developed yet and has possibility to convert to irrigated paddy field area. The further study on this area is, accordingly, also expected so as to increase irrigated paddy field area within existing irrigation scheme.

Rehabilitation schemes are divided into two categories, that is on-going scheme and proposed scheme. 776 schemes with some 1,043,000 ha of designed area are on-going scheme while 673 schemes with 636,000 ha of that are identified as proposed schemes. On-going rehabilitation schemes are further classified in three (3) categories, (i) Special Maintenance (SM), (ii) Efficient Operation and Maintenance (EOM), and (iii) ordinary rehabilitation, which feature is shown in Table 4.8 and summarized below,

On-going Rehabilitation Scheme by Region

Unit : 1,000 ha

	SM		EOM		Rehabilitation		Total	
	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)
Sumatera	20	42	43	68	93	119	156	229
Jawa	71	135	345	392	54	74	470	601
Bali & Nusa Tenggara	6	17	1	1	31	27	38	45
Kalimantan	0	0	0	0	6	3	6	3
Sulawesi	11	16	45	100	40	41	96	157
Maluku & Irian Jaya	0	0	2	1	8	8	10	9
Indonesia	108	210	436	562	232	272	776	1,043

Extension Scheme

Present status of extension scheme is shown in Tables 4.9 to 4.11 and outlined below;

Present Status of Surface irrigation Scheme by Region (Extension)

Unit : 1,000 ha

	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Increased Designed Area (Luas Rencana)	Irrigated Paddy Field (Sawah Irigasi)		Non-Irrigated Paddy Field
				Area	% of Total Area	
Sumatera	269	433	3	206	(47%)	227
Jawa	14	74	0	69	(93%)	5
Bali & Nusa Tenggara	19	22	5	11	(50%)	11
Kalimantan	16	47	0	4	(11%)	43
Sulawesi	27	92	1	52	(56%)	40
Maluku & Irian Jaya	8	15	1	3	(18%)	12
Indonesia	353	683	10	345	(50%)	338

At present, among 683,000 ha of present designed area, only 345,000 ha is in use as irrigated paddy field. Area of 338,000 ha is still undeveloped and about two thirds of the area is located in Sumatera. In this area construction of main / secondary canal and /or land development such as land clearing, land leveling and sawah formation, are required. Inventoried data analysis in terms of this type was mainly put on how many areas are expandable in undeveloped area and to assess expandability of designed area. In the course of inventory data analysis, some 348,000 ha is identified as potential expandable area, that is 338,000 ha in present designed area and 10,000 ha in increased designed area. Among that area, some 298,000 ha of undeveloped area is confirmed to be converted to irrigated paddy field, of which 288,000 ha area is in present designed area, and 10,000 ha area is out of that. Status of schemes after

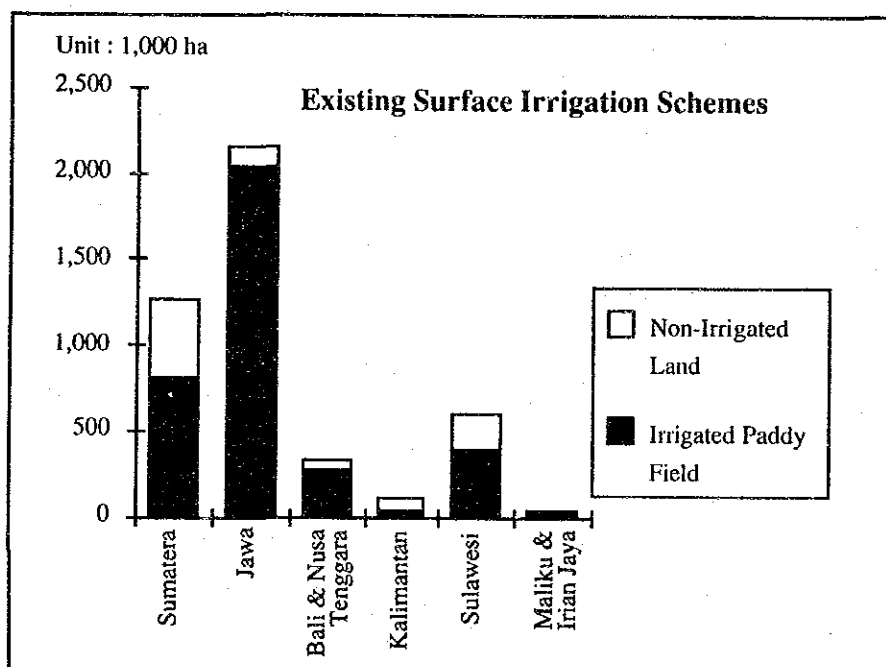
implementing extension works area presented in Tables 4.12 to 4.14 while increase of paddy field area by extension works is given in Table 4.15.

Summary of Existing Schemes

Present status of existing schemes is presented in Table 4.16 and Figure 4.1 and summarized below:

Present Status of Surface irrigation Scheme by Region (Existing Schemes)

	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Increased Designed Area (Luas Rencana)	Irrigated Paddy Field (Sawah Irigasi)		Non-Irrigated Paddy Field
				Area	% of Total Area	
Sumatera	1,489	1,266	3	793	(63%)	473
Jawa	2,475	2,150	0	2,025	(94%)	125
Bali & Nusa Tenggara	515	329	5	262	(80%)	67
Kalimantan	167	115	0	28	(24%)	87
Sulawesi	491	600	1	380	(63%)	220
Maluku & Irian Jaya	36	37	1	12	(32%)	25
Indonesia	5,173	4,497	10	3,500	(78%)	997



Status of non-irrigated land in existing schemes is shown in Figure 4.2.

(2) New Construction Scheme

It is reported that new construction scheme consisting on-going scheme and proposed one has 1,340,000 ha of potential area to be developed. Among the area some 595,000 ha is in use as rainfed paddy field and other of some 744,000 ha is used for other purposes. The highest figure is shown in Sumatera, that is 718,000 ha (53 % of total area), followed by Sulawesi. The inventory survey reports that most of these areas will be developed as irrigated paddy field area. That is estimated at some 1,329,000 ha in total, of which 590,000 ha is converted from rainfed paddy field, and 739,000 ha is from others. Detail of present status of new construction scheme is shown in Tables 4.17 to 4.19 and status of that after implementing construction works is given in Tables 4.20 to 4.22. Expected increase of irrigated paddy field by each Province is shown in Table 4.23. Distribution of new construction scheme is presented in Figure 4.3.

Present Status of Surface irrigation Scheme by Region (New Construction)

Unit : 1,000 ha

	Nos. of schemes (Nos.)	Designed Area (Luas Rencana)	Rainfed Paddy Field Area	Non-Paddy Field Area
Sumatera	415	718	273	445
Jawa	19	19	9	10
Bali & Nusa Tenggara	154	87	28	59
Kalimantan	51	73	24	49
Sulawesi	151	405	250	155
Maluku & Irian Jaya	30	37	11	26
Indonesia	820	1,339	595	744

(3) Summary

Expandable area identified and confirmed by the inventory survey is summarized in the following tables:

Identified Expandable Area by Inventory Survey

Unit : 1,000 ha

	Current O/M	Rehabilitation	Extension	New Construction	Total
Sumatera	160	86	230	718	1,194
Jawa	101	19	5	19	144
Bali & Nusa Tenggara	40	16	16	87	159
Kalimantan	39	5	43	73	160
Sulawesi	77	103	41	405	626
Maluku & Irian Jaya	1	12	13	37	63
Indonesia	419	241	348	1,339	2,346

Confirmed Expandable Area by Inventory Survey

	Unit : 1,000 ha		
	Extension	New Const- ruction	Total
Sumatera	201	717	918
Jawa	5	19	24
Bali & Nusa Tenggara	15	86	101
Kalimantan	32	72	104
Sulawesi	34	398	432
Maluku & Irian Jaya	11	37	48
Indonesia	298	1,329	1,627

Remarks : See Table 4.15 for extension and Table 4.23 for new construction

Out of some 2,346,000 ha of identified expandable area, 1,627,000 ha is confirmed to be converted to irrigated paddy field, of which one is 298,000 ha (86 % of identified area) in extension scheme, and another is 1,329,000 ha (99 % of identified area) in new construction schemes. On the other hand, there is still expandable area of some 660, 000 ha in both in current O/M schemes and rehabilitation schemes, that is identified but not yet confirmed yet. As mentioned in previous section, therefore, further study in this area whether expansion of irrigated paddy field is possible is urgently required to increase beneficiary area with existing irrigation scheme.

4.2.3 Required Works for Expansion of Irrigated Paddy Field

In this section, work quantity to complete the on-going and proposed extension / new construction works will be estimated. Area that can be converted to irrigated paddy field is classified into four categories considering required work, such as construction of main canals and land development. Description of each category is shown below;

Classification of Convertible Land

	Present Condition		Required Works	
	Construction of Main Canal	Land Development	Construction of Main Canal	Land Development
Category 1	Not Yet Finished	Not Yet Finished	Required	Required
Category 2	Not Yet Finished	Finished	Required	Not Yet Required
Category 3	Finished	Not Yet Finished	Not Required	Required
Category 4	Finished	Finished	Not Required	Not Required

Construction of Main canal system will be necessary in categories 1, and 2, while area of categories 1, and 3 are that requires land development, such as land clearing, land leveling and paddy field formation. Breakdown of each category in both extension scheme and new construction scheme is given in Table 4.24 and summarized below;

Breakdown of Land Conversion from Non-Irrigated Area to Irrigated Area
(Extension Scheme)

	Unit : 1,000 ha				
	Category 1	Category 2	Category 3	Category 4	Total
Sumatera	24	50	60	67	202
Jawa	2	3	0	0	5
Bali & Nusa Tenggara	6	1	6	2	15
Kalimantan	6	26	-2	2	31
Sulawesi	7	19	4	4	34
Maluku & Irian Jaya	6	0	0	5	11
Indonesia	51	99	68	80	298

Breakdown of Land Conversion from Non-Irrigated Area to Irrigated Area
(New Construction Scheme)

	Unit : 1,000 ha				
	Category 1	Category 2	Category 3	Category 4	Total
Sumatera	442	239	3	33	717
Jawa	9	5	0	5	19
Bali & Nusa Tenggara	56	23	2	5	86
Kalimantan	48	20	0	4	72
Sulawesi	153	242	-1	4	398
Maluku & Irian Jaya	26	11	0	0	37
Indonesia	734	540	4	51	1,329

The required work for expansion of irrigated paddy field is summarized below. The table indicates that construction of main canals is needed to cover about 150,000 ha of undeveloped area in existing scheme. On the other hand, even in extension work in existing scheme, about 119,000 ha of land development will be required. In this connection, PU has to make close contact to Ministry of Agriculture in order to accomplish full development of existing scheme. In any cases, first priority is to be put on completion of undeveloped area in existing area considering the investment cost.

Summary of Required Works for Expansion of Irrigated Paddy Field

	Unit : 1,000 ha	
	Construction of Main Canal	Land Development
<u>Extension</u>	150	119
- On-Going	77	54
- Proposed	73	65
<u>New Construction</u>	1,274	738
- On-Going	34	19
- Proposed	1,240	719
<u>Total</u>	1,424	857

4.3 Swamp Irrigation Scheme

4.3.1 Classification by type of project

Classification of swamp irrigation scheme is also classified based upon same manner as that of surface irrigation scheme, except substitution of irrigated paddy field to functioned paddy field (luas sawah berfungsi).

Following tables indicate present feature of confirmed swamp irrigation. Detail information is given in Tables 4.25 and Figure 4.4.

Confirmed Swamp Irrigation Scheme by Type

	Existing		New Construction		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	333	986	40	158	373	1,144
Jawa	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0
Kalimantan	275	593	4	10	279	603
Sulawesi	94	469	29	52	123	521
Maluku & Irian Jaya	1	6	7	52	8	58
Indonesia	703	2,054	80	272	783	2,326

As long as swamp scheme for agriculture is concerned, no scheme is found in Jawa and Bali & Nusa Tenggara area. Sumatera has the most number of schemes, that is 333 existing schemes and 40 new construction schemes, followed by Kalimantan and Sulawesi. Existing schemes area summarized below,

Confirmed Existing Swamp Irrigation Scheme by Type

	Current O/M		Rehabilitation		Extension		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	282	650	45	315	6	21	333	986
Jawa	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0
Kalimantan	231	486	16	37	28	70	275	593
Sulawesi	88	441	5	18	1	1	94	469
Maluku & Irian Jaya	0	0	0	0	1	6	1	6
Indonesia	601	1,577	66	370	36	107	703	2,054

Of the 703 total inventoried existing schemes, 85 % or 601 are current O/M schemes, 10 % or 370 are rehabilitation schemes and 5 % or 36 schemes are extension schemes. Rehabilitation

schemes are mainly located in Sumatera, while about 80 % of extension schemes are located in Sulawesi.

Present status of on-going schemes and proposed schemes are presented below,

Summary of On-going Scheme

	Rehabilitation		Extension		New Construction		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	19	138	4	13	16	62	39	213
Jawa	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0
Kalimantan	9	31	19	54	2	3	30	88
Sulawesi	3	7	1	10	6	17	10	34
Maluku & Irian Jaya	0	0	1	6	4	8	5	14
Indonesia	31	176	25	83	28	90	84	349

Note : Detail is shown in Table 4.26.

Summary of Proposed Scheme

	Rehabilitation		Extension		New Construction		Total	
	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)	Nos. of schemes (Nos.)	Designed Area (1000 ha)
Sumatera	26	177	2	8	24	96	52	281
Jawa	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0
Kalimantan	7	6	9	16	2	7	18	29
Sulawesi	2	11	0	0	23	35	25	46
Maluku & Irian Jaya	0	0	0	0	3	44	3	44
Indonesia	35	194	11	24	52	182	98	400

Note : Detail is shown in Table 4.27.

4.3.2 Potential Expandable Area

Possibility of area expansion in swamp scheme is described in the same manner as that of surface irrigation scheme. Result is given in following tables;

Present Status of Swamp Irrigation Scheme by Region (Current O/M)

Unit : 1,000 ha

	Nos. of schemes	Designed Area (Luas Rencana)	Paddy Field Functioned	Paddy Field not yet Functioned	Area for Non-Paddy Field
Sumatera	282	650	219	34	397
Jawa	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0
Kalimantan	231	486	208	127	151
Sulawesi	88	441	119	5	317
Maluku & Irian Jaya	0	0	0	0	0
Indonesia	601	1,577	546	166	865

Note : See detail in Table 4.28

Present Status of Swamp Irrigation Scheme by Region (Rehabilitation)

Unit : 1,000 ha

	Nos. of schemes	Designed Area (Luas Rencana)	Paddy Field Functioned	Paddy Field not yet Functioned	Area for Non-Paddy Field
Sumatera	45	315	182	0	133
Jawa	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0
Kalimantan	16	37	22	0	15
Sulawesi	5	18	3	0	15
Maluku & Irian Jaya	0	0	0	0	0
Indonesia	66	370	207	0	163

Note : See detail in Tables 4.29 to 4.31.

Present Status of Swamp Irrigation Scheme by Region (Extension)

Unit : 1,000 ha

	Nos. of schemes	Designed Area (Luas Rencana)	Paddy Field Functioned	Paddy Field not yet Functioned	Area for Non-Paddy Field
Sumatera	6	21	6	4	11
Jawa	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0
Kalimantan	28	70	27	19	24
Sulawesi	1	10	0	10	0
Maluku & Irian Jaya	1	6	1	5	0
Indonesia	36	107	34	38	35

Note : See detail in Tables 4.32 to 4.34.

Present Status of Swamp Irrigation Scheme by Region (Existing Scheme)

Unit : 1,000 ha

	Nos. of schemes	Designed Area (Luas Rencana)	Paddy Field Functioned	Paddy Field not yet Functioned	Area for Non-Paddy Field
Sumatera	333	986	407	38	541
Jawa	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0
Kalimantan	275	593	249	146	190
Sulawesi	94	469	122	15	332
Maluku & Irian Jaya	1	6	1	5	0
Indonesia	703	2,054	787	204	1,063

Note : See detail in Table 4.35

Present Status of Swamp Irrigation Scheme by Region (New Construction)

Unit : 1,000 ha

	Nos. of schemes	Designed Area (Luas Rencana)	Paddy Field Functioned	Paddy Field not yet Functioned	Area for Non-Paddy Field
Sumatera	40	158	0	44	114
Jawa	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0
Kalimantan	4	10	0	8	2
Sulawesi	29	52	0	2	50
Maluku & Irian Jaya	7	52	0	0	52
Indonesia	80	272	0	54	218

Note : See detail in Table 4.36 to 4.38

Main points are as follows;

- In current O/M scheme, as there still remains 166,000 ha of non-functional paddy field area, some investigation in this area is necessary to increase paddy field in this area.
- Some 92,000 ha is expected to be developed in terms of extension and new construction schemes.

4.4 Groundwater Irrigation Scheme

As for groundwater irrigation scheme, data collection was proceeded only for new construction scheme. Designed area for the schemes are summarized below;

Confirmed Groundwater Irrigation Scheme by Type

	Unit: 1,000 ha		
	On-going	Proposed	Total
Sumatera	0	4	4
Jawa	3	39	42
Bali & Nusa Tenggara	1	78	79
Kalimantan	0	0	0
Sulawesi	0	26	26
Maluku & Irian Jaya	0	0	0
Indonesia	4	147	151

Note : Nos. of scheme is not identified.

The above table indicates that Bali & Nusa Tenggara has high potential for groundwater development. This kind of development will be continued in Jawa with potential of 42,000 ha.

Tables

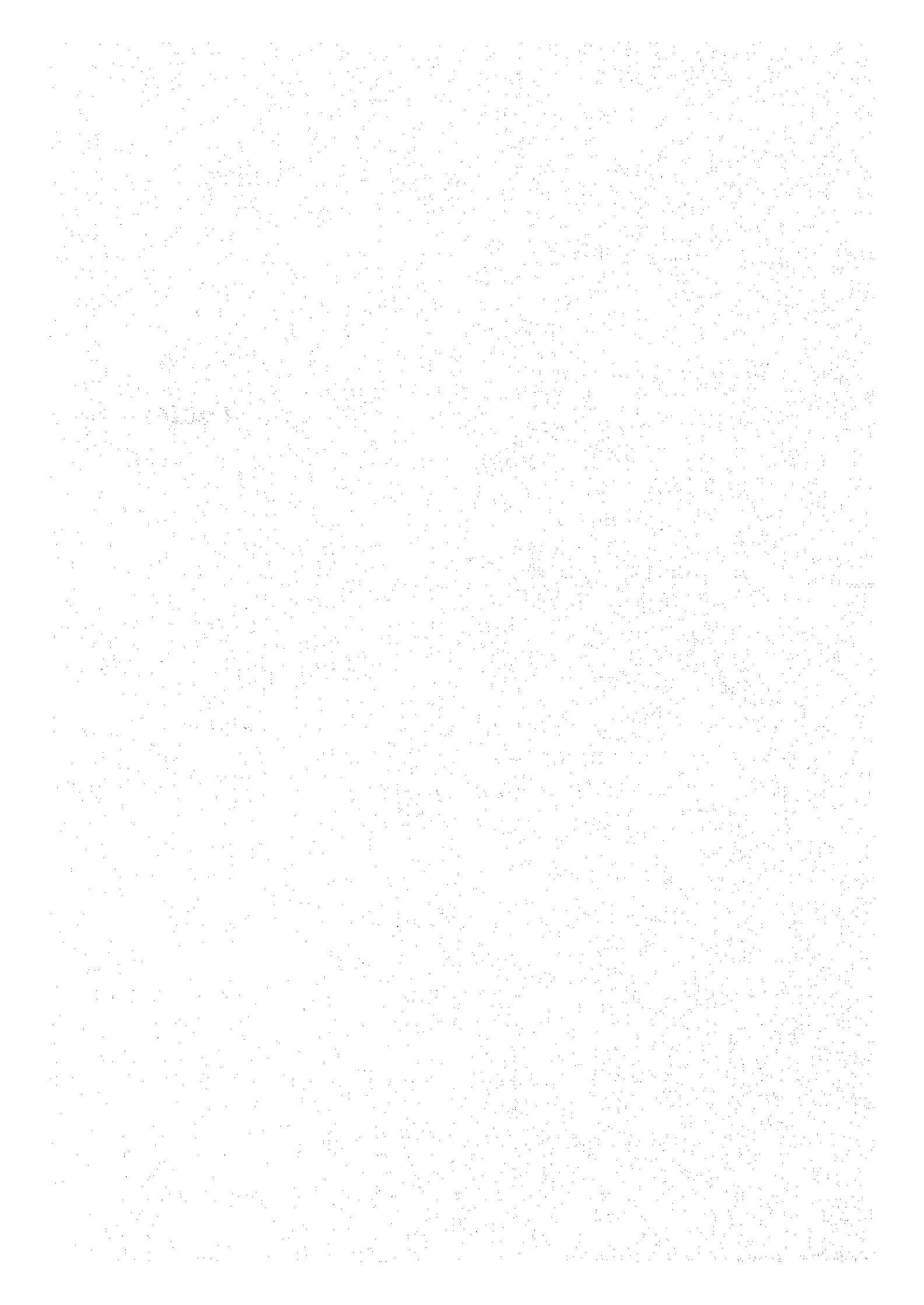


Table 2.1 Terminology of Irrigation Scheme

- **Luas Rencana (Designed Area):**
Designed area of the scheme; except for the area occupied by roads, villages, house yard etc., the luas can be converted to irrigated paddy field (Sawah);
- **Luas Potensial:**
Area for which main and secondary canals have been constructed;
- **Luas Belum Potensial:**
Area for which main and secondary canals have been not yet constructed;
- **Sawah (Paddy Field):**
Area which has been developed for paddy cultivation;
- **Belum Sawah (Not yet Paddy Field):**
Area for which the land development, such as land clearing, land leveling and sawah formation, has not yet been completed in spite of construction of main and secondary canals;
- **Luas Potensial Sawah Irigasi:**
Irrigated paddy field;
- **Sawah Belum Irigasi:**
Paddy field for which main and secondary canals have been constructed but irrigation was not made so far for some reason.
- **Petak Tersier Sudah Dikembangkan:**
Area for which tertiary canals have been constructed;
- **Petak Tersier Belum Dikembangkan :**
Area for which tertiary canals have been not yet constructed;
- **Lahan Alih Fungsi :**
Area that has been converted to other purpose, such as public facility and is not changeable to paddy field.

Table 2.2 Numbers of Schemes Collected for Inventory Survey

Unit : Nos.

Province	Inventoried Scheme			Scheme Answer is returned			
	Surface Irrigation	Swamp Irrigation	Total	Surface Irrigation	Swamp Irrigation	Ground- Water Irrigation	Total
11 D.I.Aceh	281	12	293	317	16	3	336
12 Sumatera Utara	499	61	560	690	105	20	815
13 Sumatera Barat	631	8	639	441	9	24	474
14 Riau	59	97	156	79	168		247
15 Jambi	83	17	100	62	15		77
16 Sumatera Selatan	62	46	108	81	47		128
17 Bengkulu	110	5	115	110	6		116
18 Lampung	115	6	121	124	7		131
Sumatera	1,840	252	2,092	1,904	373	47	2,324
31 D.K.I.Jakarta	26	0	26	27	0		27
32 Jawa Barat	825	0	825	680	0		680
33 Jawa Tengah	812	0	812	734	0	9	743
34 D.I.Jogyakarta	63	0	63	64	0		64
35 Jawa Timur	1,153	0	1,153	989	0	95	1,084
Jawa	2,879	0	2,879	2,494	0	104	2,598
51 Bali	161	0	161	223	0		223
52 Nusa Tenggara Barat	250	0	250	257	0	10	267
53 Nusa Tenggara Timur	113	0	113	164	0	7	171
54 Timor Timur	17	0	17	25	0		25
Bali & Nusa Tenggara	541	0	541	669	0	17	686
61 Kalimantan Barat	54	64	118	59	63		122
62 Kalimantan Tengah	7	133	140	17	116		133
63 Kalimantan Selatan	46	88	134	77	88		165
64 Kalimantan Timur	62	15	77	65	12		77
Kalimantan	169	300	469	218	279	0	497
71 Sulawesi Utara	100	34	134	110	34	3	147
72 Sulawesi Tengah	148	13	161	202	21	7	230
73 Sulawesi Selatan	208	26	234	237	65	8	310
74 Sulawesi Tenggara	92	15	107	93	3	10	106
Sulawesi	548	88	636	642	123	28	793
81 Maluku	18	0	18	25	0		25
82 Irian Jaya	17	8	25	41	8		49
Maluku & Irian Jaya	35	8	43	66	8	0	74
Indonesia	6,012	648	6,660	5,993	783	196	6,972

Table 4.1 Breakdown of Confirmed Surface Irrigation Schemes

Province	Existing Scheme						New Construction			Total		
	Current O/M		Rehabilitation		Extension		Scheme					
	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area	Nos. of Designed Schemes/Area			
11 D.I.Aceh	157	115,946	32	55,652	77	147,938	266	319,536	51	126,310	317	445,846
12 Sumatera Utara	232	92,409	179	130,519	39	50,684	450	273,612	240	186,093	690	459,705
13 Sumatera Barat	207	62,435	114	107,563	91	86,399	412	256,397	29	29,884	441	286,281
14 Riau	45	19,886	1	830	10	19,898	56	40,614	23	244,128	79	284,742
15 Jambi	35	10,390	2	1,982	20	34,436	57	46,808	5	18,937	62	65,745
16 Sumatera Selatan	52	58,987	3	3,063	11	30,613	66	92,663	15	69,001	81	161,664
17 Bengkulu	79	30,881	19	24,850	5	9,595	103	65,326	7	17,587	110	82,913
18 Lampung	39	20,710	24	96,167	16	53,725	79	170,602	45	26,389	124	196,991
Sumatera	846	411,644	374	420,626	269	433,288	1,489	1,263,558	415	718,329	1,904	1,983,887
31 D.K.I.Jakarta	7	3,244	18	7,783	2	750	27	11,777	0	0	27	11,777
32 Jawa Barat	626	670,729	32	48,412	7	11,458	665	730,599	15	16,716	680	747,315
33 Jawa Tengah	563	339,705	168	243,907	2	59,479	733	643,091	1	2,000	734	645,091
34 D.I.Jogyakarta	28	6,364	33	22,349	3	1,882	64	30,595	0	0	64	30,595
35 Jawa Timur	506	234,043	480	499,659	0	0	986	733,702	3	618	989	734,320
Jawa	1,730	1,254,085	731	822,110	14	73,569	2,475	2,149,764	19	19,334	2,494	2,169,098
51 Bali	106	53,841	50	18,768	0	0	156	72,609	67	26,879	223	99,488
52 Nusa Tenggara Barat	223	137,788	13	33,640	9	11,920	245	183,348	12	17,368	257	200,716
53 Nusa Tenggara Timur	32	17,152	58	33,949	9	9,815	99	60,916	65	27,428	164	88,344
54 Timor Timur	13	9,985	1	1,400	1	700	15	12,085	10	14,900	25	26,985
Bali & Nusa Tenggara	374	218,766	122	87,757	19	22,435	515	328,958	154	86,575	669	415,533
61 Kalimantan Barat	37	11,090	5	2,163	8	3,821	50	17,074	9	16,323	59	33,397
62 Kalimantan Tengah	7	4,719	2	1,398	2	1,279	11	7,396	6	15,240	17	22,636
63 Kalimantan Selatan	37	19,653	2	249	6	41,769	45	61,671	32	37,612	77	99,283
64 Kalimantan Timur	55	24,757	6	4,483	0	0	61	29,240	4	4,045	65	33,285
Kalimantan	136	60,219	15	8,293	16	46,869	167	115,381	51	73,220	218	188,601
71 Sulawesi Utara	61	33,240	34	30,783	3	15,817	98	79,840	12	24,075	110	103,915
72 Sulawesi Tengah	71	29,121	53	62,825	11	51,559	135	143,505	67	77,019	202	220,524
73 Sulawesi Selatan	137	103,820	55	198,359	6	19,724	198	321,903	39	274,529	237	596,432
74 Sulawesi Tenggara	7	19,083	46	30,542	7	4,673	60	54,298	33	29,773	93	84,071
Sulawesi	276	185,264	188	322,509	27	91,773	491	599,546	151	405,396	642	1,004,942
81 Maluku	3	1,090	7	3,434	5	9,288	15	13,812	10	25,223	25	39,035
82 Irian Jaya	6	3,081	12	14,797	3	6,209	21	24,087	20	11,983	41	36,070
Maluku & Irian Jaya	9	4,171	19	18,231	8	15,497	36	37,899	30	37,206	66	75,105
Indonesia	3,371	2,134,149	1,449	1,679,526	353	683,431	5,173	4,497,106	820	1,340,060	5,993	5,837,166

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.2 Breakdown of Confirmed Surface Irrigation Schemes (On-Going)

Province	Existing Scheme				New Construction				Total	
	Rehabilitation		Extension		Scheme		Scheme			
	Nos. of Designed Schemes	Area	Nos. of Designed Schemes	Area	Nos. of Designed Schemes	Area	Nos. of Designed Schemes	Area		
11 D.I.Aceh	5	36,100	19	76,361	24	112,461	0	0	24	112,461
12 Sumatera Utara	81	66,398	27	40,368	108	106,766	10	5,880	118	112,646
13 Sumatera Barat	57	63,994	40	48,924	97	112,918	2	485	99	113,403
14 Riau	0	0	6	10,796	6	10,796	0	0	6	10,796
15 Jambi	0	0	4	12,027	4	12,027	0	0	4	12,027
16 Sumatera Selatan	0	0	2	20,353	2	20,353	0	0	2	20,353
17 Bengkulu	4	1,628	0	0	4	1,628	0	0	4	1,628
18 Lampung	9	60,258	2	37,147	11	97,405	0	0	11	97,405
Sumatera	156	228,378	100	245,976	256	474,354	12	6,365	268	480,719
31 D.K.I.Jakarta	6	4,511	1	85	7	4,596	0	0	7	4,596
32 Jawa Barat	12	27,776	6	5,191	18	32,967	10	7,719	28	40,686
33 Jawa Tengah	148	226,884	2	59,479	150	286,363	0	0	150	286,363
34 D.I.Jogyakarta	26	20,569	1	577	27	21,146	0	0	27	21,146
35 Jawa Timur	278	321,040	0	0	278	321,040	0	0	278	321,040
Jawa	470	600,780	10	65,332	480	666,112	10	7,719	490	673,831
51 Bali	1	171	0	0	1	171	0	0	1	171
52 Nusa Tenggara Barat	11	30,595	5	8,720	16	39,315	2	3,717	18	43,032
53 Nusa Tenggara Timur	25	12,448	1	460	26	12,908	6	1,461	32	14,369
54 Timor Timur	1	1,400	1	700	2	2,100	3	4,150	5	6,250
Bali & Nusa Tenggara	38	44,614	7	9,880	45	54,494	11	9,328	56	63,822
61 Kalimantan Barat	5	2,163	6	2,122	11	4,285	1	844	12	5,129
62 Kalimantan Tengah	1	710	1	205	2	915	0	0	2	915
63 Kalimantan Selatan	0	0	3	35,898	3	35,898	1	328	4	36,226
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0
Kalimantan	6	2,873	10	38,225	16	41,098	2	1,172	18	42,270
71 Sulawesi Utara	8	6,110	2	7,817	10	13,927	1	0	11	13,927
72 Sulawesi Tengah	26	28,423	4	30,891	30	59,314	2	8,250	32	67,564
73 Sulawesi Selatan	34	103,890	1	3,477	35	107,367	1	9,524	36	116,891
74 Sulawesi Tenggara	28	18,211	2	633	30	18,844	1	630	31	19,474
Sulawesi	96	156,634	9	42,818	105	199,452	5	18,404	110	217,856
81 Maluku	3	1,664	3	7,223	6	8,887	0	0	6	8,887
82 Irian Jaya	7	7,738	2	209	9	7,947	0	0	9	7,947
Maluku & Irian Jaya	10	9,402	5	7,432	15	16,834	0	0	15	16,834
Indonesia	776	1,042,681	141	409,663	917	1,452,344	40	42,988	957	1,495,332

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.3 Breakdown of Confirmed Surface Irrigation Schemes (Proposed)

Province	Existing Scheme				New Construction		Total			
	Rehabilitation		Extension		Scheme					
	Nos. of Designed Scheme: Area	Nos. of Designed Scheme: Area	Nos. of Designed Scheme: Area	Nos. of Designed Scheme: Area	Nos. of Designed Scheme: Area	Nos. of Designed Scheme: Area				
11 D.I.Aceh	27	19,552	58	71,577	85	91,129	51	126,310	136	217,439
12 Sumatera Utara	98	64,121	12	10,316	110	74,437	230	180,213	340	254,650
13 Sumatera Barat	57	43,569	51	37,475	108	81,044	27	29,399	135	110,443
14 Riau	1	830	4	9,102	5	9,932	23	244,128	28	254,060
15 Jambi	2	1,982	16	22,409	18	24,391	5	18,937	23	43,328
16 Sumatera Selatan	3	3,063	9	10,260	12	13,323	15	69,001	27	82,324
17 Bengkulu	15	23,222	5	9,595	20	32,817	7	17,587	27	50,404
18 Lampung	15	35,909	14	16,578	29	52,487	45	26,389	74	78,876
Sumatera	218	192,248	169	187,312	387	379,560	403	711,964	790	1,091,524
31 D.K.I.Jakarta	12	3,272	1	665	13	3,937	0	0	13	3,937
32 Jawa Barat	20	20,636	1	6,267	21	26,903	5	8,997	26	35,900
33 Jawa Tengah	20	17,023	0	0	20	17,023	1	2,000	21	19,023
34 D.I.Jogyakarta	7	1,780	2	1,305	9	3,085	0	0	9	3,085
35 Jawa Timur	202	178,619	0	0	202	178,619	3	618	205	179,237
Jawa	261	221,330	4	8,237	265	229,567	9	11,615	274	241,182
51 Bali	49	18,597	0	0	49	18,597	67	26,879	116	45,476
52 Nusa Tenggara Barat	2	3,045	4	3,200	6	6,245	10	13,651	16	19,896
53 Nusa Tenggara Timur	33	21,501	8	9,355	41	30,856	59	25,967	100	56,823
54 Timor Timur	0	0	0	0	0	0	7	10,750	7	10,750
Bali & Nusa Tenggara	84	43,143	12	12,555	96	55,698	143	77,247	239	132,945
61 Kalimantan Barat	0	0	2	1,699	2	1,699	8	15,479	10	17,178
62 Kalimantan Tengah	1	688	1	1,074	2	1,762	6	15,240	8	17,002
63 Kalimantan Selatan	2	249	3	5,871	5	6,120	31	37,284	36	43,404
64 Kalimantan Timur	6	4,483	0	0	6	4,483	4	4,045	10	8,528
Kalimantan	9	5,420	6	8,644	15	14,064	49	72,048	64	86,112
71 Sulawesi Utara	26	24,673	1	8,000	27	32,673	11	24,075	38	56,748
72 Sulawesi Tengah	27	34,402	7	20,668	34	55,070	65	68,769	99	123,839
73 Sulawesi Selatan	21	94,469	5	16,247	26	110,716	38	265,005	64	375,721
74 Sulawesi Tenggara	18	12,331	5	4,040	23	16,371	32	29,143	55	45,514
Sulawesi	92	165,875	18	48,955	110	214,830	146	386,992	256	601,822
81 Maluku	4	1,770	2	2,065	6	3,835	10	25,223	16	29,058
82 Irian Jaya	5	7,059	1	6,000	6	13,059	20	11,983	26	25,042
Maluku & Irian Jaya	9	8,829	3	8,065	12	16,894	30	37,206	42	54,100
Indonesia	673	636,845	212	273,768	885	910,613	780	1,297,072	1,665	2,207,685

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.4 Present Status of Surface Irrigation Scheme (Current O/M)

Unit : ha

Province	Nos. of Schemes	Designed Area	Irrigated Paddy Field	Total (%)	Not Irrigated Area				No longer available for Paddy field	
					is constructed		constructed			
					(4)=(5)+(6)+ (7)+(8)+(9)	(5)	(6)	(7)		(8)
		(1)	(2)	(3)=(2)/(1)	(4)	(5)	(6)	(7)	(8)	(9)
11 D.L.Aceh	157	115,946	80,377	(69%)	35,569	14,273	3,270	12,763	4,002	1,261
12 Sumatera Utara	232	92,409	52,164	(56%)	40,245	9,722	9,151	4,019	16,399	954
13 Sumatera Barat	207	62,435	35,974	(58%)	26,461	8,220	6,010	1,056	9,936	1,239
14 Riau	45	19,886	6,632	(33%)	13,254	2,131	9,085	272	1,442	324
15 Jambi	35	10,390	6,754	(65%)	3,636	625	2,513	0	0	498
16 Sumatera Selatan	52	58,987	31,600	(54%)	27,387	1,900	6,523	225	18,399	340
17 Bengkulu	79	30,881	23,452	(76%)	7,429	825	3,407	1,759	1,213	225
18 Lampung	39	20,710	14,658	(71%)	6,052	678	3,226	0	457	1,691
Sumatera	846	411,644	231,611	(61%)	160,033	38,374	43,185	20,094	51,848	6,532
31 D.K.I.Jakarta	7	3,244	2,631	(81%)	613	53	126	234	110	90
32 Jawa Barat	626	670,729	601,616	(90%)	69,113	19,039	15,528	9,572	3,356	21,618
33 Jawa Tengah	563	339,705	327,224	(96%)	12,481	4,786	1,938	3,480	0	2,277
34 D.I.Jogyakarta	28	6,364	5,746	(90%)	618	349	121	147	0	1
35 Jawa Timur	506	234,043	216,171	(92%)	17,872	1,201	277	0	2,819	13,575
Jawa	1,730	1,254,085	1,153,388	(92%)	100,697	25,428	17,990	13,433	6,285	37,561
51 Bali	106	53,841	49,135	(91%)	4,706	0	4,518	0	0	188
52 Nusa Tenggara Barat	223	137,788	112,347	(82%)	25,441	2,660	14,878	1,695	4,446	1,762
53 Nusa Tenggara Timur	32	17,152	10,152	(59%)	7,000	1,701	3,644	0	1,332	323
54 Timor Timur	13	9,985	6,896	(69%)	3,089	0	0	589	2,500	0
Bali & Nusa Tenggara	374	218,766	178,530	(82%)	40,236	4,361	23,040	2,284	8,278	2,273
61 Kalimantan Barat	37	11,090	6,599	(60%)	4,491	1,681	815	1,166	794	35
62 Kalimantan Tengah	7	4,719	1,297	(27%)	3,422	1,420	184	189	1,628	1
63 Kalimantan Selatan	37	19,653	9,142	(47%)	10,511	3,431	5,211	780	365	724
64 Kalimantan Timur	55	24,757	4,069	(16%)	20,688	4,321	5,158	3,150	6,753	1,306
Kalimantan	136	60,219	21,107	(35%)	39,112	10,853	11,368	5,285	9,540	2,066
71 Sulawesi Utara	61	33,240	25,339	(76%)	7,901	1,183	5,480	26	719	493
72 Sulawesi Tengah	71	29,121	16,239	(56%)	12,882	693	7,473	1,392	1,500	1,824
73 Sulawesi Selatan	137	103,820	61,115	(59%)	42,705	11,415	3,434	12,803	10,794	4,259
74 Sulawesi Tenggara	7	19,083	5,290	(28%)	13,793	0	8,719	0	4,783	291
Sulawesi	276	185,264	107,983	(58%)	77,281	13,291	25,106	14,221	17,796	6,867
81 Maluku	3	1,090	1,090	(100%)	0	0	0	0	0	0
82 Irian Jaya	6	3,081	1,440	(47%)	1,641	40	1,301	0	300	0
Maluku & Irian Jaya	9	4,171	2,530	(61%)	1,641	40	1,301	0	300	0
Indonesia	3,371	2,134,149	1,715,149	(80%)	419,000	92,347	121,990	55,317	94,047	55,299

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.5 Present Status of Surface Irrigation Scheme (Rehabilitation)

Unit : ha

Province	Nos. of Schemes	Designed Area	Irrigated Paddy Field	(%)	Total	Not Irrigated Area				No longer available for Paddy field	
						Main/Secondary canal is constructed		Main/Secondary canal is not constructed			
						(1)	(2)	(3)=(2)/(1)	(4)=(5)+(6)+(7)+(8)+(9)		(5)
11 D.I.Aceh	32	55,652	55,096	(99%)	556	260	244	0	0	0	52
12 Sumatera Utara	179	130,519	98,958	(76%)	31,561	8,869	10,288	5,624	5,644	0	1,136
13 Sumatera Barat	114	107,563	94,511	(88%)	13,052	8,463	3,759	41	80	0	709
14 Riau	1	830	830	(100%)	0	0	0	0	0	0	0
15 Jambi	2	1,982	1,982	(100%)	0	0	0	0	0	0	0
16 Sumatera Selatan	3	3,063	2,722	(89%)	341	291	0	0	50	0	0
17 Bengkulu	19	24,850	13,800	(56%)	11,050	2,254	3,768	910	3,295	0	823
18 Lampung	24	96,167	66,871	(70%)	29,288	2,052	23,583	0	115	0	3,538
Sumatera	374	420,626	334,770	(80%)	85,848	22,189	41,642	6,575	9,184	0	6,238
31 D.K.I.Jakarta	18	7,783	5,955	(77%)	1,828	984	75	315	170	0	284
32 Jawa Barat	32	48,412	45,268	(94%)	3,144	824	660	218	0	0	1,442
33 Jawa Tengah	168	243,907	238,830	(98%)	5,077	1,206	835	556	255	0	2,225
34 D.I.Jogyakarta	33	22,349	19,345	(87%)	3,004	795	2,092	76	0	0	41
35 Jawa Timur	480	499,659	493,222	(99%)	6,437	967	305	137	70	0	4,958
Jawa	731	822,110	802,620	(98%)	19,490	4,776	3,967	1,302	495	0	8,950
51 Bali	50	18,768	16,732	(89%)	2,036	0	1,859	0	0	0	177
52 Nusa Tenggara Barat	13	33,640	33,631	(100%)	9	0	0	0	0	0	9
53 Nusa Tenggara Timur	58	33,949	20,550	(61%)	13,399	1,831	8,738	1,142	1,284	0	404
54 Timor Timur	1	1,400	710	(51%)	690	0	0	0	0	0	690
Bali & Nusa Tenggara	122	87,757	71,623	(82%)	16,134	1,831	10,597	1,142	1,284	0	1,280
61 Kalimantan Barat	5	2,163	673	(31%)	1,490	874	80	0	536	0	0
62 Kalimantan Tengah	2	1,398	788	(56%)	610	0	349	0	261	0	0
63 Kalimantan Selatan	2	249	196	(79%)	53	8	44	0	0	0	1
64 Kalimantan Timur	6	4,483	1,314	(29%)	3,169	650	1,160	648	325	0	386
Kalimantan	15	8,293	2,971	(36%)	5,322	1,592	1,633	648	1,122	0	387
71 Sulawesi Utara	34	30,783	21,692	(70%)	9,091	1,046	7,028	30	22	0	965
72 Sulawesi Tengah	53	62,825	35,943	(57%)	26,482	279	19,184	1,431	1,184	0	4,404
73 Sulawesi Selatan	55	198,359	145,513	(73%)	52,846	15,706	6,999	4,697	20,461	0	4,983
74 Sulawesi Tenggara	46	30,542	17,727	(58%)	12,815	0	8,035	831	1,318	0	2,631
Sulawesi	188	322,509	220,875	(68%)	101,234	17,031	41,246	6,989	22,985	0	12,983
81 Maluku	7	3,434	3,211	(94%)	223	223	0	0	0	0	0
82 Irian Jaya	12	14,797	2,817	(19%)	11,980	850	8,502	303	2,180	0	145
Maluku & Irian Jaya	19	18,231	6,028	(33%)	12,203	1,073	8,502	303	2,180	0	145
Indonesia	1,449	1,679,526	1,438,887	(86%)	240,231	48,432	107,587	16,959	37,250	0	30,003

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.6 Present Status of Surface Irrigation Scheme (Rehabilitation, On-going)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed			Area for which main & secondary canals have not yet been constructed			Total	(10)=(11)+(12)	(11)	(12)		
			Total		Not yet		Total						From Paddy Field	From Non-Paddy Field
			(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4)	(5)	(6)						
			Total	Paddy Field	Irrigated	Not yet	Paddy Field	Total	From Paddy Field	From Non-Paddy Field	Unit : ha			
11 D.I. Aceh	5	36,100	36,100	36,100	36,100	0	0	0	0	0	0			
12 Sumatera Utara	81	66,398	60,983	52,247	4,353	3,833	92	458	5,415	1,788	3,627			
13 Sumatera Barat	57	63,994	63,942	61,874	469	1,383	204	12	52	22	30			
14 Riau	0	0	0	0	0	0	0	0	0	0	0			
15 Jambi	0	0	0	0	0	0	0	0	0	0	0			
16 Sumatera Selatan	0	0	0	0	0	0	0	0	0	0	0			
17 Bengkulu	4	1,628	1,554	1,317	71	166	0	0	74	74	0			
18 Lampung	9	60,258	60,258	44,213	42,926	1,279	12,682	81	3,282	0	0			
Sumatera	156	228,378	222,837	200,644	194,464	6,172	18,064	4,129	3,752	1,884	3,657			
31 D.K.I. Jakarta	6	4,511	4,461	4,436	3,861	575	0	25	25	0	50			
32 Jawa Barat	12	27,776	27,776	27,687	27,031	656	0	89	0	0	0			
33 Jawa Tengah	148	226,884	226,327	223,869	222,663	499	1,206	1,959	1,630	329	255			
34 D.I. Yogyakarta	26	20,569	20,493	18,360	17,665	695	2,092	41	28	13	76			
35 Jawa Timur	278	321,040	321,040	316,530	315,741	789	183	4,327	4,321	6	0			
Jawa	470	600,780	600,097	590,882	586,961	3,921	2,774	6,441	6,093	348	305			
51 Bali	1	171	171	171	171	0	0	0	0	0	0			
52 Nusa Tenggara Barat	11	30,595	30,595	30,586	30,586	0	0	9	0	0	0			
53 Nusa Tenggara Timur	25	12,448	11,200	8,738	7,819	919	2,263	199	0	199	731			
54 Timor Timur	1	1,400	1,400	710	710	0	0	690	0	690	0			
Bali & Nusa Tenggara	38	44,614	43,366	40,205	39,286	919	2,263	898	0	898	731			
61 Kalimantan Barat	5	2,163	1,627	1,547	673	874	80	0	0	536	0			
62 Kalimantan Tengah	1	710	449	100	100	0	349	0	0	261	0			
63 Kalimantan Selatan	0	0	0	0	0	0	0	0	0	0	0			
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0			
Kalimantan	6	2,873	2,076	1,647	773	874	429	0	0	797	0			
71 Sulawesi Utara	8	6,110	6,110	3,426	3,396	30	2,230	454	454	0	0			
72 Sulawesi Tengah	26	28,423	26,379	17,811	17,136	275	7,355	1,213	664	549	1,107			
73 Sulawesi Selatan	34	103,890	101,953	96,134	91,964	4,170	1,994	3,825	3,495	330	587			
74 Sulawesi Tenggara	28	18,211	17,035	10,199	10,199	0	4,631	2,205	133	2,072	455			
Sulawesi	96	156,634	151,477	127,570	122,695	4,475	16,210	7,697	4,746	2,951	2,742			
81 Maluku	3	1,664	1,664	1,664	1,489	175	0	0	0	0	0			
82 Irian Jaya	7	7,738	5,255	2,710	2,010	700	2,400	145	0	145	303			
Maluku & Irian Jaya	10	9,402	6,919	4,374	3,499	875	2,400	145	0	145	303			
Indonesia	776	1,042,681	1,026,772	965,322	947,678	17,236	42,140	19,310	11,216	8,094	10,685			

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.7 Present Status of Surface Irrigation Scheme (Rehabilitation, Proposed)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed			Area for which main & secondary canals have not yet been constructed			Total	(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4)		(5)		(6)		(7)=(8)+(9)		(8)		(9)		(10)=(11)+(12)		(11)	(12)		
			Total		Irrigated		Not yet Irrigated						Total		Paddy Field		From Paddy Field		From Non-Paddy Field		Total		Paddy Field		From Paddy Field				From Non-Paddy Field	
			(1)	(2)	(3)	(4)	(5)	(6)					(7)	(8)	(9)	(10)	(11)	(12)												
11 DI Aceh	27	19,552	19,552	18,996	260	244	52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12 Sumatera Utara	98	64,121	58,268	51,227	46,711	4,516	6,455	586	28	28	558	586	28	558	0	0	0	0	0	0	0	0	0	0	0	0	0	2,017		
13 Sumatera Barat	57	43,569	43,500	40,631	32,637	7,994	2,376	493	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50		
14 Riau	1	830	830	830	830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15 Jambi	2	1,982	1,982	1,982	1,982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16 Sumatera Selatan	3	3,063	3,013	3,013	2,722	291	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50		
17 Bengkulu	15	23,222	19,091	14,666	12,483	2,183	3,602	823	645	178	178	823	645	178	178	0	0	0	0	0	0	0	0	0	0	0	0	3,295		
18 Lampung	15	35,909	35,794	24,718	23,945	773	10,901	175	91	84	84	175	91	84	0	0	0	0	0	0	0	0	0	0	0	0	0	115		
Sumatera	218	192,248	182,030	156,323	140,306	16,017	23,578	2,129	1,309	820	820	2,129	1,309	820	0	0	0	0	0	0	0	0	0	0	0	0	0	5,327		
31 DKI Jakarta	12	3,272	2,837	2,503	2,094	409	75	259	30	30	30	259	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	120		
32 Jawa Barat	20	20,636	20,418	18,405	18,237	168	660	1,353	1,342	11	11	1,353	1,342	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
33 Jawa Tengah	20	17,023	16,769	16,167	16,167	0	336	266	109	157	157	266	109	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
34 DI Yogyakarta	7	1,780	1,780	1,780	1,680	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
35 Jawa Timur	202	178,619	178,412	177,659	177,481	178	122	631	601	30	30	631	601	30	0	0	0	0	0	0	0	0	0	0	0	0	0	70		
Jawa	261	221,330	220,216	216,514	215,659	855	1,193	2,509	2,082	427	427	2,509	2,082	427	0	0	0	0	0	0	0	0	0	0	0	0	0	190		
51 Bali	49	18,597	18,597	16,561	16,561	0	1,839	177	39	138	138	177	39	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
52 Nusa Tenggara Barat	2	3,045	3,045	3,045	3,045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
53 Nusa Tenggara Timur	33	21,501	20,323	13,643	12,731	912	6,475	205	15	190	190	205	15	190	0	0	0	0	0	0	0	0	0	0	0	0	0	553		
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bali & Nusa Tenggara	84	43,143	41,965	33,249	32,337	912	8,334	382	54	328	328	382	54	328	0	0	0	0	0	0	0	0	0	0	0	0	0	553		
61 Kalimantan Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
62 Kalimantan Tengah	1	688	688	688	688	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
63 Kalimantan Selatan	2	249	249	204	196	8	44	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
64 Kalimantan Timur	6	4,483	3,510	1,964	1,314	650	1,160	386	4	382	382	386	4	382	0	0	0	0	0	0	0	0	0	0	0	0	0	325		
Kalimantan	9	5,420	4,447	2,856	2,198	658	1,204	387	4	383	383	387	4	383	0	0	0	0	0	0	0	0	0	0	0	0	0	325		
71 Sulawesi Utara	26	24,673	24,621	19,312	18,296	1,016	4,798	511	34	477	477	511	34	477	0	0	0	0	0	0	0	0	0	0	0	0	0	22		
72 Sulawesi Tengah	27	34,402	33,831	18,811	18,807	4	11,829	3,191	1,087	2,104	2,104	3,191	1,087	2,104	0	0	0	0	0	0	0	0	0	0	0	0	0	77		
73 Sulawesi Selatan	21	94,469	71,248	65,085	53,549	11,536	5,005	1,158	228	930	930	1,158	228	930	0	0	0	0	0	0	0	0	0	0	0	0	0	19,874		
74 Sulawesi Tenggara	18	12,331	11,358	7,528	7,528	0	3,404	426	31	395	395	426	31	395	0	0	0	0	0	0	0	0	0	0	0	0	0	597		
Sulawesi	92	165,875	141,058	110,736	98,180	12,556	25,036	5,286	1,380	3,906	3,906	5,286	1,380	3,906	0	0	0	0	0	0	0	0	0	0	0	0	0	20,570		
81 Maluku	4	1,770	1,770	1,770	1,722	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
82 Irian Jaya	5	7,059	7,059	957	807	150	6,102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Maluku & Irian Jaya	9	8,829	8,829	2,727	2,529	198	6,102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indonesia	673	636,845	598,545	522,405	491,209	31,196	65,447	10,693	4,829	5,864	5,864	10,693	4,829	5,864	0	0	0	0	0	0	0	0	0	0	0	0	0	27,165		

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.8 Classification of On-going Rehabilitation Scheme

Unit : ha

Province	On-going Rehabilitation Scheme						Total	
	Special Maintenance		Efficient OM (EOM)		Regular OM			
	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area		
11 D.I.Aceh	0	0	0	0	5	36,100	5	36,100
12 Sumatera Utara	8	16,913	9	10,739	64	38,746	81	66,398
13 Sumatera Barat	10	10,382	32	16,232	15	37,380	57	63,994
14 Riau	0	0	0	0	0	0	0	0
15 Jambi	0	0	0	0	0	0	0	0
16 Sumatera Selatan	0	0	0	0	0	0	0	0
17 Bengkulu	0	0	0	0	4	1,628	4	1,628
18 Lampung	2	14,331	2	40,747	5	5,180	9	60,258
Sumatera	20	41,626	43	67,718	93	119,034	156	228,378
31 D.K.I.Jakarta	0	0	0	0	6	4,511	6	4,511
32 Jawa Barat	7	17,586	0	0	5	10,190	12	27,776
33 Jawa Tengah	28	67,728	106	128,324	14	30,832	148	226,884
34 D.I.Jogyakarta	9	4,719	9	10,559	8	5,291	26	20,569
35 Jawa Timur	27	44,499	230	252,913	21	23,528	278	321,040
Jawa	71	134,532	345	391,796	54	74,452	470	600,780
51 Bali	0	0	0	0	1	171	1	171
52 Nusa Tenggara Barat	6	17,083	0	0	5	13,512	11	30,595
53 Nusa Tenggara Timur	0	0	1	370	24	12,078	25	12,448
54 Timor Timur	0	0	0	0	1	1,400	1	1,400
Bali & Nusa Tenggara	6	17,083	1	370	31	27,161	38	44,614
61 Kalimantan Barat	0	0	0	0	5	2,163	5	2,163
62 Kalimantan Tengah	0	0	0	0	1	710	1	710
63 Kalimantan Selatan	0	0	0	0	0	0	0	0
64 Kalimantan Timur	0	0	0	0	0	0	0	0
Kalimantan	0	0	0	0	6	2,873	6	2,873
71 Sulawesi Utara	0	0	0	0	8	6,110	8	6,110
72 Sulawesi Tengah	7	8,567	1	706	18	19,150	26	28,423
73 Sulawesi Selatan	4	7,154	23	85,082	7	11,654	34	103,890
74 Sulawesi Tenggara	0	0	21	13,969	7	4,242	28	18,211
Sulawesi	11	15,721	45	99,757	40	41,156	96	156,634
81 Maluku	0	0	1	885	2	779	3	1,664
82 Irian Jaya	0	0	1	150	6	7,588	7	7,738
Maluku & Irian Jaya	0	0	2	1,035	8	8,367	10	9,402
Indonesia	108	208,962	436	560,676	232	273,043	776	1,042,681

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.9 Present Status of Surface Irrigation Scheme (Extension)

Unit : ha

Province	Nos. of Schemes	Designed Area	Irrigated Paddy Field	Total (%)	Not Irrigated Area				No longer available for Paddy field			
					Main/Secondary canal is constructed		Main/Secondary canal is not constructed					
					(1)	(2)	(3)=(2)/(1)	(4)=(5)+(6)+ (7)+(8)+(9)		(5)	(6)	(7)
11 D.I.Aceh	77	147,938	68,910	(47%)	79,028	25,029	4,709	35,060	5,970	8,260		
12 Sumatera Utara	39	50,684	24,315	(48%)	26,369	7,597	7,397	1,036	9,710	629		
13 Sumatera Barat	91	86,399	33,208	(38%)	53,191	17,092	25,493	625	8,733	1,248		
14 Riau	10	19,898	8,059	(41%)	11,839	7,648	2,328	678	590	595		
15 Jambi	20	34,436	10,571	(31%)	23,865	7,627	2,974	13,000	0	264		
16 Sumatera Selatan	11	30,613	21,149	(69%)	9,464	2,396	4,461	0	2,607	0		
17 Bengkulu	5	9,595	8,370	(87%)	1,225	76	1,129	0	0	20		
18 Lampung	16	53,725	31,188	(58%)	22,537	319	15,154	0	3,673	3,391		
Sumatera	269	433,288	205,770	(47%)	227,518	67,784	63,645	50,399	31,283	14,407		
31 D.K.I.Jakarta	2	750	655	(87%)	95	35	60	0	0	0		
32 Jawa Barat	7	11,458	8,197	(72%)	3,261	128	167	1,551	1,388	27		
33 Jawa Tengah	2	59,479	59,134	(99%)	345	320	0	25	0	0		
34 D.I.Jogyakarta	3	1,882	534	(28%)	1,348	0	150	1,198	0	0		
35 Jawa Timur	0	0	0	(0%)	0	0	0	0	0	0		
Jawa	14	73,569	68,520	(93%)	5,049	483	377	2,774	1,388	27		
51 Bali	0	0	0	(0%)	0	0	0	0	0	0		
52 Nusa Tenggara Barat	9	11,920	6,823	(57%)	5,097	120	3,596	875	506	0		
53 Nusa Tenggara Timur	9	9,815	4,068	(41%)	5,747	1,896	3,165	0	668	18		
54 Timor Timur	1	700	386	(55%)	314	0	0	0	314	0		
Bali & Nusa Tenggara	19	22,435	11,277	(50%)	11,158	2,016	6,761	875	1,488	18		
61 Kalimantan Barat	8	3,821	1,428	(37%)	2,393	897	232	1,080	164	20		
62 Kalimantan Tengah	2	1,279	922	(72%)	357	125	227	0	0	5		
63 Kalimantan Selatan	6	41,769	2,595	(6%)	39,174	1,377	535	28,341	8,921	0		
64 Kalimantan Timur	0	0	0	(0%)	0	0	0	0	0	0		
Kalimantan	16	46,869	4,945	(11%)	41,924	2,999	994	29,421	9,085	25		
71 Sulawesi Utara	3	15,817	6,709	(42%)	9,108	838	600	4,795	2,855	0		
72 Sulawesi Tengah	11	51,559	33,068	(64%)	18,491	244	3,581	11,828	2,620	218		
73 Sulawesi Selatan	6	19,724	10,671	(54%)	9,053	5,104	0	2,740	634	575		
74 Sulawesi Tenggara	7	4,673	1,386	(30%)	3,287	0	2,517	116	268	386		
Sulawesi	27	91,773	51,834	(56%)	39,939	6,206	6,698	19,479	6,377	1,179		
81 Maluku	5	9,288	1,712	(18%)	7,576	5,511	1,534	0	0	531		
82 Irian Jaya	3	6,209	1,040	(17%)	5,169	75	35	0	5,059	0		
Maluku & Irian Jaya	8	15,497	2,752	(18%)	12,745	5,386	1,569	0	5,059	531		
Indonesia	353	683,431	345,098	(50%)	338,333	84,474	80,044	102,948	54,680	16,187		

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.10 Present Status of Surface Irrigation Scheme (Extension, On-going)

Province	Nos. of scheme	Designed Area	Total	Area for which main & secondary canal have been constructed					Area for which main & secondary canals have not yet been constructed					Unit : ha
				Paddy Field		Not yet Irrigated		(3)=(4)+(5)	Paddy Field		Not yet Irrigated		(10)=(11)+(12)	
				(1)=(2)+(10)	(2)=(3)+(6)+(7)	(4)	(5)		(6)	(7)=(8)+(9)	(8)	(9)		
				Total	Not yet Irrigated	Paddy Field	Total	Paddy Field	From Field	From Non-Paddy Field	Total	Paddy Field	Non-Paddy Field	
11 D.I.Aceh	19	76,361	60,633	54,018	36,653	17,365	1,275	5,340	0	5,340	15,728	12,782	2,946	
12 Sumatera Utara	27	40,368	30,215	24,874	17,346	7,528	4,777	564	0	564	10,153	1,036	9,117	
13 Sumatera Barat	40	48,924	43,647	30,563	19,910	10,653	12,346	738	247	491	5,277	30	5,247	
14 Riau	6	10,796	10,392	8,307	1,469	6,838	1,491	594	39	555	404	175	229	
15 Jambi	4	12,027	12,027	11,461	4,427	7,034	497	69	21	48	0	0	0	
16 Sumatera Selatan	2	20,353	20,353	20,140	18,941	1,199	213	0	0	0	0	0	0	
17 Bengkulu	0	0	0	0	0	0	0	0	0	0	0	0	0	
18 Lampung	2	37,147	33,474	23,042	22,723	319	7,084	3,348	9	3,339	3,673	0	3,673	
Sumatera	100	245,976	210,741	172,405	121,469	50,936	27,683	10,653	5,656	4,997	35,235	14,023	21,212	
31 D.K.I.Jakarta	1	85	85	25	25	0	60	0	0	0	0	0	0	
32 Jawa Barat	6	5,191	3,453	3,259	3,131	128	167	27	0	27	1,738	350	1,388	
33 Jawa Tengah	2	59,479	59,454	59,479	59,134	320	0	0	0	0	25	25	0	
34 D.I.Jogyakarta	1	577	368	368	368	0	0	0	0	0	209	209	0	
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jawa	10	65,332	63,360	63,106	62,658	448	227	27	0	27	1,972	584	1,388	
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	
52 Nusa Tenggara Barat	5	8,720	7,503	4,195	4,195	0	3,308	0	0	0	1,217	711	506	
53 Nusa Tenggara Timur	1	460	460	341	341	0	119	0	0	0	0	0	0	
54 Timor Timur	1	700	386	386	386	0	0	0	0	0	314	0	314	
Bali & Nusa Tenggara	7	9,880	8,349	4,922	4,922	0	3,427	0	0	0	1,531	711	820	
61 Kalimantan Barat	6	2,122	1,878	1,632	910	722	226	20	20	0	244	80	164	
62 Kalimantan Tengah	1	205	205	205	100	105	0	0	0	0	0	0	0	
63 Kalimantan Selatan	3	35,898	702	698	698	0	4	0	0	0	35,196	28,141	7,055	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kalimantan	10	38,225	2,785	2,535	1,708	827	230	20	20	0	35,440	28,221	7,219	
71 Sulawesi Utara	2	7,817	7,817	7,217	6,359	858	600	0	0	0	0	0	0	
72 Sulawesi Tengah	4	30,891	21,071	20,871	20,627	244	200	0	0	0	9,820	9,820	0	
73 Sulawesi Selatan	1	3,477	3,477	3,045	2,941	104	0	432	432	0	0	0	0	
74 Sulawesi Tenggara	2	633	633	223	223	0	410	0	0	0	0	0	0	
Sulawesi	9	42,818	32,998	31,356	30,150	1,206	1,210	432	432	0	9,820	9,820	0	
81 Maluku	3	7,223	7,223	5,928	1,377	4,551	1,004	291	291	0	0	0	0	
82 Irian Jaya	2	209	150	115	40	75	35	0	0	0	59	0	59	
Maluku & Irian Jaya	5	7,432	7,373	6,043	1,417	4,626	1,039	291	291	0	59	0	59	
Indonesia	141	409,663	325,606	280,367	222,324	58,043	33,816	11,423	6,426	4,997	84,057	53,359	30,698	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.11 Present Status of Surface Irrigation Scheme (Extension, Proposed)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed			Area for which main & secondary canals have not yet been constructed			Total	(10)=(11)+(12)	(11)	(12)	
			Total	Paddy Field	Irrigated	Not yet Irrigated	Not yet Paddy Field	No longer available for paddy field					
								(3)=(4)+(5)					(4)
		(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4)	(5)	(6)	(7)=(8)+(9)	(8)	(9)	(10)=(11)+(12)	(11)	(12)
				Total	Paddy Field	Not yet Irrigated	Not yet Paddy Field	Total	From Paddy Field	From Non-Paddy Field	Total	Paddy Field	Non-paddy Field
11 D.I.Aceh	58	71,577	46,275	39,921	32,257	7,664	3,434	2,920	993	1,927	25,302	22,278	3,024
12 Sumatera Utara	12	10,316	9,723	7,038	6,969	69	2,620	65	10	55	593	0	593
13 Sumatera Barat	51	37,475	33,394	19,737	13,298	6,439	13,147	510	466	44	4,081	595	3,486
14 Riau	4	9,102	8,238	7,400	6,590	810	837	1	0	1	864	503	361
15 Jambi	16	22,409	9,409	6,737	6,144	593	2,477	195	93	102	13,000	13,000	0
16 Sumatera Selatan	9	10,260	7,653	3,405	2,208	1,197	4,248	0	0	0	2,607	0	2,607
17 Bengkulu	5	9,595	9,595	8,446	8,370	76	1,129	20	20	0	0	0	0
18 Lampung	14	16,578	16,578	8,465	8,465	0	8,070	43	0	0	0	0	0
Sumatera	169	187,312	140,865	101,149	84,301	16,848	35,962	3,754	1,582	2,172	46,447	36,376	10,071
31 D.K.I.Jakarta	1	665	665	665	630	35	0	0	0	0	0	0	0
32 Jawa Barat	1	6,267	5,066	5,066	5,066	0	0	0	0	0	1,201	1,201	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	2	1,305	316	166	166	0	150	0	0	0	989	989	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	4	8,237	6,047	5,897	5,862	35	150	0	0	0	2,190	2,190	0
31 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	4	3,200	3,036	2,748	2,628	120	288	0	0	0	164	164	0
53 Nusa Tenggara Timur	8	9,355	8,687	5,623	3,727	1,896	3,046	18	0	18	668	668	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	12	12,555	11,723	8,371	6,355	2,016	3,334	18	0	18	832	164	668
61 Kalimantan Barat	2	1,699	699	693	518	175	6	0	0	0	1,000	1,000	0
62 Kalimantan Tengah	1	1,074	1,074	842	822	20	227	5	0	5	0	0	0
63 Kalimantan Selatan	3	5,871	3,805	3,274	1,897	1,377	531	0	0	0	2,066	200	1,866
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan	6	8,644	5,578	4,809	3,237	1,572	764	5	0	5	3,066	1,200	1,866
71 Sulawesi Utara	1	8,000	350	350	350	0	0	0	0	0	7,650	4,795	2,855
72 Sulawesi Tengah	7	20,668	16,040	12,441	12,441	0	3,381	218	27	191	4,628	2,008	2,620
73 Sulawesi Selatan	5	16,247	12,873	12,730	7,730	5,000	0	143	135	8	3,374	2,740	634
74 Sulawesi Tenggara	5	4,040	3,656	1,163	1,163	0	2,107	386	25	361	384	116	268
Sulawesi	18	48,955	32,919	26,684	21,684	5,000	5,488	747	187	560	16,036	9,659	6,377
81 Maluku	2	2,065	2,065	1,295	335	960	530	240	0	0	0	0	0
82 Irian Jaya	1	6,000	1,000	1,000	1,000	0	0	0	0	0	5,000	0	5,000
Maluku & Irian Jaya	3	8,065	3,065	2,295	1,335	960	530	240	0	0	5,000	0	5,000
Indonesia	212	273,768	200,197	149,205	122,774	26,431	46,228	4,764	2,009	2,755	73,571	49,589	23,982

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.12 Surface Irrigation Scheme after Implementation (Extension)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed					Area for which main & secondary canals have not yet been constructed				Unit : ha	
			Total	Paddy Field		Irrigated	Not yet Irrigated	Total	From Paddy Field		Total		
				(1)=(2)+(10)	(2)=(3)+(6)+(7)				(3)=(4)+(5)	(4)			(5)
11 D.I.Aceh	77	150,128	150,078	141,448	141,077	371	370	6,333	1,927	50	0	50	
12 Sumatera Utara	39	50,791	49,449	47,225	47,081	144	1,595	629	10	619	0	1,342	
13 Sumatera Barat	91	87,505	82,000	79,714	79,546	168	1,038	1,248	713	535	30	5,475	
14 Riau	10	19,868	18,600	17,488	17,488	240	547	595	39	556	678	590	
15 Jambi	20	34,436	34,436	34,172	34,172	0	0	264	229	35	0	0	
16 Sumatera Selatan	11	30,613	28,006	28,006	28,006	0	0	0	0	0	0	2,607	
17 Bengkulu	5	9,595	9,595	9,575	9,575	0	0	20	0	0	0	0	
18 Lampung	16	53,797	53,797	50,309	50,309	0	97	3,391	9	3,382	0	0	
Sumatera	269	436,733	425,961	407,937	407,254	923	3,647	14,407	7,353	7,034	708	10,064	
31 D.K.I.Jakarta	2	750	750	750	750	0	0	0	0	0	0	0	
32 Jawa Barat	7	11,517	11,389	11,389	11,389	0	0	27	27	0	101	101	
33 Jawa Tengah	9	59,779	59,779	59,779	59,779	0	0	0	0	0	0	0	
34 D.I.Jogyakarta	3	1,882	1,882	1,882	1,882	0	0	0	0	0	0	0	
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	
Jawa	14	73,928	73,827	73,800	73,800	0	0	27	27	0	101	101	
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	
52 Nusa Tenggara Barat	9	16,747	16,747	16,747	16,747	0	0	0	0	0	0	0	
53 Nusa Tenggara Timur	9	9,842	9,174	8,373	8,373	0	798	18	0	18	668	668	
54 Timor Timur	1	700	700	700	700	0	0	0	0	0	0	0	
Bali & Nusa Tenggara	19	27,289	26,621	25,820	25,820	0	798	18	0	18	668	668	
61 Kalimantan Barat	8	3,821	3,821	3,801	3,797	4	0	20	20	0	0	0	
62 Kalimantan Tengah	2	1,474	1,474	1,469	1,469	0	0	5	0	5	0	0	
63 Kalimantan Selatan	6	41,769	34,265	31,365	31,365	0	2,900	0	0	0	7,504	3,419	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	
Kalimantan	16	47,064	39,560	36,635	36,631	4	2,900	25	20	5	7,504	3,419	
71 Sulawesi Utara	3	15,817	15,817	15,317	15,317	0	500	0	0	0	0	0	
72 Sulawesi Tengah	11	52,453	50,550	50,550	50,550	0	1,685	218	27	191	0	0	
73 Sulawesi Selatan	6	19,724	19,090	18,515	16,717	1,798	0	575	567	8	634	634	
74 Sulawesi Tenggara	7	4,673	4,673	3,601	3,601	600	686	386	25	361	0	0	
Sulawesi	27	92,667	92,033	87,983	85,585	2,398	2,871	1,179	619	560	634	634	
81 Maluku	5	10,088	10,088	8,425	7,457	968	1,132	531	0	0	0	0	
82 Irian Jaya	3	6,209	6,159	6,099	6,099	0	60	0	0	0	50	50	
Maluku & Irian Jaya	8	16,297	16,247	14,524	13,556	968	1,192	531	531	0	50	50	
Indonesia	353	695,978	674,249	646,699	642,646	4,293	11,408	16,187	8,550	7,637	19,729	4,228	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.13 Surface Irrigation Scheme after Implementation (Extension, On-going)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed					Area for which main & secondary canals have not yet been constructed					Unit : ha		
			Total		Irrigated		Not yet Irrigated		Total		From Paddy Field			From Non-Paddy Field	
			(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4)	(5)	(6)	(7)=(8)+(9)	(8)	(9)	(10)=(11)+(12)		(11)	(12)
D.I.Aceh	19	78,241	78,241	72,551	0	350	5,340	5,340	0	0	0	0	0		
Sumatera Utara	27	40,368	39,119	37,541	95	1,014	564	0	564	1,249	0	1,249	0		
Sumatera Barat	40	49,143	44,325	42,757	168	830	738	247	491	4,818	30	4,788	0		
Riau	6	10,766	10,362	9,251	240	547	594	39	555	404	175	229	0		
Jambi	4	12,027	12,027	11,958	0	69	69	0	0	0	0	0	0		
Sumatera Selatan	2	20,353	20,353	20,353	0	0	0	0	0	0	0	0	0		
Bengkulu	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lampung	2	37,147	37,147	33,799	0	3,348	9	3,339	0	0	0	0	0		
Sumatera	100	248,045	241,574	228,210	503	2,741	10,653	5,704	4,929	6,471	205	6,266	0		
D.K.I.Jakarta	1	85	85	85	0	0	0	0	0	0	0	0	0		
Jawa Barat	6	5,250	5,250	5,223	5,223	0	27	27	0	0	0	0	0		
Jawa Tengah	2	59,779	59,779	59,779	59,779	0	0	0	0	0	0	0	0		
D.I.Jogyakarta	1	577	577	577	577	0	0	0	0	0	0	0	0		
Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jawa	10	65,691	65,691	65,664	65,664	0	27	27	0	0	0	0	0		
Bali	0	0	0	0	0	0	0	0	0	0	0	0	0		
Nusa Tenggara Barat	5	9,447	9,447	9,447	9,447	0	0	0	0	0	0	0	0		
Nusa Tenggara Timur	1	502	502	502	502	0	0	0	0	0	0	0	0		
Timor Timur	1	700	700	700	700	0	0	0	0	0	0	0	0		
Bali & Nusa Tenggara	7	10,649	10,649	10,649	10,649	0	0	0	0	0	0	0	0		
Kalimantan Barat	6	2,122	2,122	2,102	2,098	4	20	20	0	0	0	0	0		
Kalimantan Tengah	1	400	400	400	400	0	0	0	0	0	0	0	0		
Kalimantan Selatan	3	35,898	30,269	27,369	27,369	0	2,900	0	0	5,629	3,219	2,410	0		
Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kalimantan	10	38,420	32,791	29,871	29,867	4	2,900	20	20	5,629	3,219	2,410	0		
Sulawesi Utara	2	7,817	7,817	7,317	7,317	0	500	0	0	0	0	0	0		
Sulawesi Tengah	4	30,891	30,891	30,891	30,891	0	0	0	0	0	0	0	0		
Sulawesi Selatan	1	3,477	3,477	3,045	2,950	95	432	432	0	0	0	0	0		
Sulawesi Tenggara	2	633	633	415	315	100	218	0	0	0	0	0	0		
Sulawesi	9	42,818	42,818	41,668	41,473	195	718	432	432	0	0	0	0		
Maluku	3	8,023	8,023	7,130	6,497	633	602	291	291	0	0	0	0		
Irian Jaya	2	209	159	99	99	0	60	0	0	50	0	50	0		
Maluku & Irian Jaya	5	8,232	8,182	7,229	6,596	633	662	291	291	0	0	0	0		
Indonesia	141	413,855	401,705	383,291	382,196	1,335	7,021	11,423	6,474	4,949	12,150	3,424	8,726		

Source : Result of Inventory Survey Conducted by IICA FIDP Team

Table 4.14 Surface Irrigation Scheme after Implementation (Extension, Proposed)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed				Area for which main & secondary canals have not yet been constructed				Unit : ha		
			Total		Not yet Irrigated		Total		Not yet Paddy Field				
			(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4) Paddy Field	(5) Irrigated	(6) Not yet Paddy Field	(7)=(8)+(9)	(8) Total From Paddy Field		(9) Non-Paddy Field	(10)=(11)+(12)
11 D.I.Aceh	58	71,887	71,837	68,897	68,526	371	20	993	1,927	50	0	50	
12 Sumatera Utara	12	10,423	10,330	9,684	9,635	49	581	65	10	93	0	93	
13 Sumatera Barat	51	38,362	37,675	36,957	36,957	0	208	510	466	687	0	687	
14 Riau	4	9,102	8,238	8,237	8,237	0	0	1	0	864	503	361	
15 Jambi	16	22,409	22,409	22,214	22,214	0	0	195	160	0	0	0	
16 Sumatera Selatan	9	10,260	7,653	7,653	7,653	0	0	0	0	2,607	0	2,607	
17 Bengkulu	5	9,595	9,595	9,575	9,575	0	20	20	0	0	0	0	
18 Lampung	14	16,650	16,650	16,510	16,510	0	97	43	0	0	0	0	
Sumatera	169	188,688	184,387	179,727	179,307	420	906	3,754	1,649	2,105	4,301	503	3,798
31 D.K.I.Jakarta	1	665	665	665	665	0	0	0	0	0	0	0	
32 Jawa Barat	1	6,267	6,166	6,166	6,166	0	0	0	0	101	101	0	
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	
34 D.I.Jogyakarta	2	1,305	1,305	1,305	1,305	0	0	0	0	0	0	0	
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	
Jawa	4	8,237	8,136	8,136	8,136	0	0	0	0	101	101	0	
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	
52 Nusa Tenggara Barat	4	7,300	7,300	7,300	7,300	0	0	0	0	0	0	0	
53 Nusa Tenggara Timur	8	9,340	8,672	7,871	7,871	0	798	18	0	18	668	668	
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	
Bali & Nusa Tenggara	12	16,640	15,972	15,171	15,171	0	798	18	0	18	668	668	
61 Kalimantan Barat	2	1,699	1,699	1,699	1,699	0	0	0	0	0	0	0	
62 Kalimantan Tengah	1	1,074	1,074	1,069	1,069	0	0	5	0	5	0	0	
63 Kalimantan Selatan	3	5,871	3,996	3,996	3,996	0	0	0	0	0	1,875	200	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	
Kalimantan	6	8,644	6,769	6,764	6,764	0	0	5	0	5	1,875	200	
71 Sulawesi Utara	1	8,000	8,000	8,000	8,000	0	0	0	0	0	0	0	
72 Sulawesi Tengah	7	21,562	21,562	19,659	19,659	0	1,685	218	27	191	0	0	
73 Sulawesi Selatan	5	16,247	15,613	15,470	15,470	1,703	0	143	135	8	634	634	
74 Sulawesi Tenggara	5	4,040	3,186	3,186	2,686	500	468	386	25	361	0	0	
Sulawesi	18	49,849	49,215	46,315	44,112	2,205	2,153	747	187	560	634	634	
81 Maluku	2	2,065	2,065	1,295	960	335	530	240	0	0	0	0	
82 Irian Jaya	1	6,000	6,000	6,000	6,000	0	0	0	0	0	0	0	
Maluku & Irian Jaya	3	8,065	8,065	7,295	6,960	335	530	240	0	0	0	0	
Indonesia	212	280,123	272,544	263,408	260,450	2,958	4,387	4,764	2,688	7,579	804	6,775	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.15 Increase of Irrigated Paddy Field by Province (Extension Schemes)

Unit : ha

	Extension Scheme								
	On-going			Proposed			Total		
	Present Condition	After Extension	Increase	Present Condition	After Extension	Increase	Present Condition	After Extension	Increase
11 D.I.Aceh	36,653	72,551	35,898	32,257	68,526	36,269	68,910	141,077	72,167
12 Sumatera Utara	17,346	37,446	20,100	6,969	9,635	2,666	24,315	47,081	22,766
13 Sumatera Barat	19,910	42,589	22,679	13,298	36,957	23,659	33,208	79,546	46,338
14 Riau	1,469	9,251	7,782	6,590	8,237	1,647	8,059	17,488	9,429
15 Jambi	4,427	11,958	7,531	6,144	22,214	16,070	10,571	34,172	23,601
16 Sumatera Selatan	18,941	20,353	1,412	2,208	7,653	5,445	21,149	28,006	6,857
17 Bengkulu	0	0	0	8,370	9,575	1,205	8,370	9,575	1,205
18 Lampung	22,723	33,799	11,076	8,465	16,510	8,045	31,188	50,309	19,121
Sumatera	121,469	227,947	106,478	84,301	179,307	95,006	205,770	407,254	201,484
31 D.K.I.Jakarta	25	85	60	630	665	35	655	750	95
32 Jawa Barat	3,131	5,223	2,092	5,066	6,166	1,100	8,197	11,389	3,192
33 Jawa Tengah	59,134	59,779	645	0	0	0	59,134	59,779	645
34 D.I.Jogyakarta	368	577	209	166	1,305	1,139	534	1,882	1,348
35 Jawa Timur	0	0	0	0	0	0	0	0	0
Jawa	62,658	65,664	3,006	5,862	8,136	2,274	68,520	73,800	5,280
51 Bali	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	4,195	9,447	5,252	2,628	7,300	4,672	6,823	16,747	9,924
53 Nusa Tenggara Timur	341	502	161	3,727	7,871	4,144	4,068	8,373	4,305
54 Timor Timur	386	700	314	0	0	0	386	700	314
Bali & Nusa Tenggara	4,922	10,649	5,727	6,355	15,171	8,816	11,277	25,820	14,543
61 Kalimantan Barat	910	2,098	1,188	518	1,699	1,181	1,428	3,797	2,369
62 Kalimantan Tengah	100	400	300	822	1,069	247	922	1,469	547
63 Kalimantan Selatan	698	27,369	26,671	1,897	3,996	2,099	2,595	31,365	28,770
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0
Kalimantan	1,708	29,867	28,159	3,237	6,764	3,527	4,945	36,631	31,686
71 Sulawesi Utara	6,359	7,317	958	350	8,000	7,650	6,709	15,317	8,608
72 Sulawesi Tengah	20,627	30,891	10,264	12,441	19,659	7,218	33,068	50,550	17,482
73 Sulawesi Selatan	2,941	2,950	9	7,730	13,767	6,037	10,671	16,717	6,046
74 Sulawesi Tenggara	223	315	92	1,163	2,686	1,523	1,386	3,001	1,615
Sulawesi	30,150	41,473	11,323	21,684	44,112	22,428	51,834	85,585	33,751
81 Maluku	1,377	6,497	5,120	335	960	625	1,712	7,457	5,745
82 Irian Jaya	40	99	59	1,000	6,000	5,000	1,040	6,099	5,059
Maluku & Irian Jaya	1,417	6,596	5,179	1,335	6,960	5,625	2,752	13,556	10,804
Indonesia	222,324	382,196	159,872	122,774	260,450	137,676	345,098	642,646	297,548

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.16 Present Status of Surface Irrigation Scheme (Inventoried Existing Schemes)

Unit : ha

Province	Nos. of Schemes	Designed Area	Irrigated Paddy Field	%	Total	Not Irrigated Area				No longer available for Paddy field	
						Main/Secondary canal is constructed		Main/Secondary canal is not constructed			
						(4)=(5)+(6)+ (7)+(8)+(9)	(5)	(6)	(7)		(8)
		(1)	(2)	(3)=(2)/(1)		(4)	(5)	(6)	(7)	(8)	(9)
11 D.I.Aceh	266	319,536	204,383	(64%)	115,153	39,562	8,223	47,823	9,972	9,972	9,573
12 Sumatera Utara	450	273,612	175,437	(64%)	98,175	26,188	26,836	10,679	31,753	31,753	2,719
13 Sumatera Barat	412	256,397	163,693	(64%)	92,704	33,775	35,262	1,722	18,749	18,749	3,196
14 Riau	56	40,614	15,521	(38%)	25,093	9,779	11,413	950	2,032	2,032	919
15 Jambi	57	46,808	19,307	(41%)	27,501	8,252	5,487	13,000	0	0	762
16 Sumatera Selatan	66	92,663	55,471	(60%)	37,192	4,587	10,984	225	21,056	21,056	340
17 Bengkulu	103	65,326	45,622	(70%)	19,704	3,155	8,304	2,669	4,508	4,508	1,068
18 Lampung	79	170,602	112,117	(66%)	57,877	3,049	41,963	0	4,245	4,245	8,620
Sumatera	1,489	1,265,558	792,151	(63%)	473,399	128,347	148,472	77,068	92,315	92,315	27,197
31 D.K.I.Jakarta	27	11,777	9,241	(78%)	2,536	1,072	261	549	280	280	374
32 Jawa Barat	665	730,599	655,081	(90%)	75,518	19,991	16,355	11,341	4,744	4,744	23,087
33 Jawa Tengah	733	643,091	625,188	(97%)	17,903	6,312	2,773	4,061	255	255	4,502
34 D.I.Jogyakarta	64	30,595	25,625	(84%)	4,970	1,144	2,363	1,421	0	0	42
35 Jawa Timur	986	733,702	709,393	(97%)	24,309	2,168	582	137	2,889	2,889	18,533
Jawa	2,475	2,149,764	2,024,528	(94%)	125,236	30,687	22,334	17,509	8,168	8,168	46,538
51 Bali	156	72,609	65,867	(91%)	6,742	0	6,377	0	0	0	365
52 Nusa Tenggara Barat	245	183,348	152,801	(83%)	30,547	2,780	18,474	2,570	4,952	4,952	1,771
53 Nusa Tenggara Timur	99	60,916	34,770	(57%)	26,146	5,428	15,547	1,142	3,284	3,284	745
54 Timor Timur	15	12,085	7,992	(66%)	4,093	0	0	589	2,814	2,814	690
Bali & Nusa Tenggara	515	328,938	261,430	(79%)	67,528	8,208	40,398	4,301	11,050	11,050	3,571
61 Kalimantan Barat	50	17,074	8,700	(51%)	8,374	3,452	1,127	2,246	1,494	1,494	55
62 Kalimantan Tengah	11	7,396	3,007	(41%)	4,389	1,545	760	189	1,889	1,889	6
63 Kalimantan Selatan	45	61,671	11,933	(19%)	49,738	4,816	5,790	29,121	9,286	9,286	725
64 Kalimantan Timur	61	29,240	5,383	(18%)	23,857	4,971	6,318	3,798	7,078	7,078	1,692
Kalimantan	167	115,381	29,023	(25%)	86,358	14,784	13,995	35,354	19,747	19,747	2,478
71 Sulawesi Utara	98	79,840	53,740	(67%)	26,100	3,087	13,108	4,851	3,596	3,596	1,458
72 Sulawesi Tengah	135	143,505	85,250	(59%)	57,855	1,216	30,238	14,651	5,304	5,304	6,446
73 Sulawesi Selatan	198	321,903	217,299	(68%)	104,604	32,225	10,433	20,240	31,889	31,889	9,817
74 Sulawesi Tenggara	60	54,298	24,403	(45%)	29,895	0	19,271	947	6,369	6,369	3,308
Sulawesi	491	599,546	380,692	(63%)	218,454	36,528	73,050	40,689	47,158	47,158	21,029
81 Maluku	15	13,812	6,013	(44%)	7,799	5,734	1,534	0	0	0	531
82 Irian Jaya	21	24,087	5,297	(22%)	18,790	965	9,838	303	7,539	7,539	145
Maluku & Irian Jaya	36	37,899	11,310	(30%)	26,589	6,699	11,372	303	7,539	7,539	676
Indonesia	5,173	4,497,106	3,499,134	(78%)	997,564	225,253	309,621	175,224	185,977	185,977	101,489

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.17 Present Status of Surface Irrigation Scheme (New Construction)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed				Area for which main & secondary canals have not yet been constructed				Total	Unit : ha		
			Paddy Field		Not yet Irrigated		Paddy Field		Not yet Irrigated					
			(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4)	(5)	(6)	(7)=(8)+(9)	(8)			(9)	(10)=(11)+(12)
			Total	Irrigated	Not yet Irrigated	Paddy Field	Total	Paddy Field	Total	From Paddy Field	From Non-Paddy Field	Total	Paddy Field	Non-Paddy Field
11 D.I.Aceh	51	126,310	14,792	14,792	0	14,792	0	0	0	0	0	111,518	36,190	75,328
12 Sumatera Utara	240	186,093	4,247	4,127	0	4,127	120	0	0	0	0	181,846	74,571	107,275
13 Sumatera Barat	29	29,884	7,593	6,723	0	6,723	840	30	30	0	0	22,291	3,449	18,842
14 Riau	23	244,128	8,770	8,067	0	8,067	703	0	0	0	0	235,358	86,153	149,205
15 Jambi	5	18,937	150	0	0	0	150	0	0	0	0	18,787	5,636	13,151
16 Sumatera Selatan	15	69,001	0	0	0	0	0	0	0	0	0	69,001	20,702	48,299
17 Bengkulu	7	17,587	396	0	0	0	380	16	16	0	0	17,191	3,873	13,318
18 Lampung	45	26,389	1,532	750	0	750	502	280	280	0	0	24,857	7,744	17,113
Sumatera	415	718,329	37,880	34,459	0	34,459	2,695	46	326	0	0	680,849	238,918	442,531
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	15	16,716	4,996	4,180	0	4,180	801	15	15	0	0	11,720	4,324	7,396
33 Jawa Tengah	1	2,000	0	0	0	0	0	0	0	0	0	2,000	600	1,400
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	3	618	618	618	0	618	0	0	0	0	0	0	0	0
Jawa	19	19,334	5,614	4,798	0	4,798	801	15	15	0	0	13,720	4,924	8,796
51 Bali	67	26,879	1,246	1,246	0	1,246	0	0	0	0	0	25,633	7,695	17,938
52 Nusa Tenggara Barat	12	17,368	0	0	0	0	0	0	0	0	0	17,368	5,096	12,272
53 Nusa Tenggara Timur	65	27,428	2,834	2,542	0	2,542	267	25	25	7	18	24,594	7,950	16,644
54 Timor Timur	10	14,900	3,450	950	0	950	2,500	0	0	0	0	11,450	2,265	9,185
Bali & Nusa Tenggara	154	86,575	7,530	4,738	0	4,738	2,767	25	25	7	18	79,045	23,006	56,039
61 Kalimantan Barat	9	16,323	3,010	2,820	0	2,820	190	0	0	0	0	13,313	4,133	9,180
62 Kalimantan Tengah	6	15,240	840	829	0	829	11	0	0	0	0	14,400	3,960	10,440
63 Kalimantan Selatan	32	37,612	0	0	0	0	0	0	0	0	0	37,612	11,206	26,406
64 Kalimantan Timur	4	4,045	500	175	0	175	255	70	70	0	0	3,545	795	2,750
Kalimantan	51	73,220	4,350	3,824	0	3,824	456	70	70	0	0	68,870	20,094	48,776
71 Sulawesi Utara	12	24,075	0	0	0	0	0	0	0	0	0	24,075	5,431	18,644
72 Sulawesi Tengah	67	77,019	3,400	2,400	0	2,400	1,000	0	0	0	0	73,619	22,470	51,149
73 Sulawesi Selatan	39	274,529	1,935	1,150	0	1,150	785	0	0	0	0	272,594	210,320	62,274
74 Sulawesi Tenggara	33	29,773	0	0	0	0	0	0	0	0	0	29,773	9,003	20,770
Sulawesi	151	405,396	5,335	3,550	0	3,550	1,785	0	0	0	0	400,061	247,224	152,837
81 Maluku	10	25,223	0	0	0	0	0	0	0	0	0	25,223	7,567	17,656
82 Irian Jaya	20	11,983	0	0	0	0	0	0	0	0	0	11,983	3,597	8,386
Maluku & Irian Jaya	30	37,206	0	0	0	0	0	0	0	0	0	37,206	11,164	26,042
Indonesia	820	1,340,060	60,309	51,369	0	51,369	8,504	436	436	68	368	1,279,751	544,730	735,021

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.18 Present Status of Surface Irrigation Scheme (New Construction, On-going)

Unit : ha

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed					Area for which main & secondary canals have not yet been constructed						
			Total		Not yet Irrigated		Paddy Field		Total		Not yet Paddy Field		Non-Paddy Field	
			(1)=(2)+(10)	(2)=(3)+(6)+(7)	(3)=(4)+(5)	(4)	(5)	(6)	(7)=(8)+(9)	(8)	(9)	(10)=(11)+(12)	(11)	(12)
11 D.I.Aceh	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 Sumatera Utara	10	5,880	120	0	0	120	0	0	0	0	5,760	1,820	3,940	
13 Sumatera Barat	2	485	485	0	485	0	0	0	0	0	0	0	0	
14 Riau	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 Jambi	0	0	0	0	0	0	0	0	0	0	0	0	0	
16 Sumatera Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 Bengkulu	0	0	0	0	0	0	0	0	0	0	0	0	0	
18 Lampung	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sumatera	12	6,365	605	485	120	485	0	0	0	0	5,760	1,820	3,940	
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	
32 Jawa Barat	10	7,719	3,799	3,020	779	3,020	0	0	0	0	3,920	1,984	1,936	
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jawa	10	7,719	3,799	3,020	779	3,020	0	0	0	0	3,920	1,984	1,936	
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	
52 Nusa Tenggara Barat	2	3,717	0	0	0	0	0	0	0	0	3,717	1,000	2,717	
53 Nusa Tenggara Timur	6	1,461	958	862	71	25	71	18	18	503	481	22	22	
54 Timor Timur	3	4,150	2,950	950	2,000	0	0	0	0	1,200	0	0	1,200	
Bali & Nusa Tenggara	11	9,328	3,908	1,812	2,071	25	71	18	18	5,420	1,481	3,939	3,939	
61 Kalimantan Barat	1	844	0	0	0	0	0	0	0	844	68	776	776	
62 Kalimantan Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	
63 Kalimantan Selatan	1	328	0	0	0	0	0	0	0	328	20	308	308	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kalimantan	2	1,172	0	0	0	0	0	0	0	1,172	88	1,084	1,084	
71 Sulawesi Utara	1	0	0	0	0	0	0	0	0	0	0	0	0	
72 Sulawesi Tengah	2	8,250	0	0	0	0	0	0	0	8,250	2,250	6,000	6,000	
73 Sulawesi Selatan	1	9,524	0	0	0	0	0	0	0	9,524	9,524	0	0	
74 Sulawesi Tenggara	1	630	0	0	0	0	0	0	0	630	260	370	370	
Sulawesi	5	18,404	0	0	0	0	0	0	0	18,404	12,034	6,370	6,370	
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	
82 Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	
Maluku & Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indonesia	40	42,988	8,312	5,317	2,970	25	71	18	18	34,676	17,407	17,269	17,269	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.20 Surface Irrigation Scheme after Implementation (New Construction)

Province	Nos. of scheme	Designed Area	Area for which main & secondary canal have been constructed					Area for which main & secondary canals have not yet been constructed				Unit : ha		
			Total	Paddy Field		Total	No longer available for paddy field		Total	Paddy Field			Total	
				(1)=(2)+(10)	(2)=(3)+(6)+(7)		(3)=(4)+(5)	(4)		(5)	(6)			(7)=(8)+(9)
				Total	Irrigated	Not yet Irrigated	Paddy Field	Not yet Paddy Field	Total	Paddy Field	From Field	Non-Paddy Field	Paddy Field	Non-paddy Field
11 D.I.Aceh	51	126,310	126,310	126,310	126,310	0	0	0	0	0	0	0	0	0
12 Sumatera Utara	240	186,093	185,813	185,813	184,723	1,090	0	0	0	0	0	0	280	280
13 Sumatera Barat	29	29,884	29,850	29,820	29,820	0	0	30	30	0	0	0	34	34
14 Riau	23	244,128	244,128	244,128	244,128	0	0	0	0	0	0	0	0	0
15 Jambi	5	18,937	18,937	18,937	18,937	0	0	0	0	0	0	0	0	0
16 Sumatera Selatan	15	69,001	69,001	69,001	69,001	0	0	0	0	0	0	0	0	0
17 Bengkulu	7	17,587	17,571	17,571	17,571	0	0	16	16	0	0	0	0	0
18 Lampung	45	26,389	26,389	26,109	26,109	0	0	280	280	0	0	0	0	0
Sumatera	415	718,329	718,015	717,689	716,599	1,090	0	326	326	46	280	314	0	314
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	15	16,716	16,716	16,557	16,557	0	144	15	15	0	0	0	0	0
33 Jawa Tengah	1	2,000	2,000	2,000	2,000	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	3	618	618	618	618	0	0	0	0	0	0	0	0	0
Jawa	19	19,334	19,334	19,175	19,175	0	144	15	15	0	0	0	0	0
51 Bali	67	26,879	26,879	26,879	26,879	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	12	17,368	17,368	17,368	17,368	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	65	27,428	27,366	27,270	27,270	0	71	25	25	7	18	62	40	22
54 Timor Timur	10	14,900	14,900	14,900	14,900	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	154	86,575	86,513	86,417	86,417	0	71	25	25	7	18	62	40	22
61 Kalimantan Barat	9	16,323	15,737	15,737	15,737	0	0	0	0	0	0	586	0	586
62 Kalimantan Tengah	6	15,240	15,240	15,240	15,240	0	0	0	0	0	0	0	0	0
63 Kalimantan Selatan	32	37,612	37,612	37,607	37,507	100	5	0	0	0	0	0	0	0
64 Kalimantan Timur	4	4,045	3,845	3,775	3,775	0	0	70	70	0	70	200	0	200
Kalimantan	51	73,220	72,434	72,359	72,259	100	5	70	70	0	70	786	0	786
71 Sulawesi Utara	12	24,397	24,397	24,397	24,397	0	0	0	0	0	0	0	0	0
72 Sulawesi Tengah	67	77,019	71,967	69,467	69,467	0	2,500	0	0	0	0	5,052	5,052	0
73 Sulawesi Selatan	39	274,529	274,529	274,529	274,529	0	0	0	0	0	0	0	0	0
74 Sulawesi Tenggara	33	29,773	29,773	29,773	29,773	0	0	0	0	0	0	0	0	0
Sulawesi	151	405,718	400,666	398,166	398,166	0	2,500	0	0	0	0	5,052	5,052	0
81 Maluku	10	25,223	25,223	25,223	25,223	0	0	0	0	0	0	0	0	0
82 Irian Jaya	20	11,983	11,983	11,983	11,983	0	0	0	0	0	0	0	0	0
Maluku & Irian Jaya	30	37,206	37,206	37,206	37,206	0	0	0	0	0	0	0	0	0
Indonesia	820	1,340,382	1,331,012	1,329,822	1,331,012	1,190	2,720	456	456	68	368	6,214	5,092	1,122

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.23 Increase of Irrigated Paddy Field by Province (New Construction Schemes)

Unit : ha

	New Construction Scheme								
	On-Going			Proposed			Total		
	Present Condition	After Construction	Increase	Present Condition	After Construction	Increase	Present Condition	After Construction	Increase
11 D.I.Aceh	0	0	0	0	126,310	126,310	0	126,310	126,310
12 Sumatera Utara	0	5,600	5,600	0	179,123	179,123	0	184,723	184,723
13 Sumatera Barat	0	485	485	0	29,335	29,335	0	29,820	29,820
14 Riau	0	0	0	0	244,128	244,128	0	244,128	244,128
15 Jambi	0	0	0	0	18,937	18,937	0	18,937	18,937
16 Sumatera Selatan	0	0	0	0	69,001	69,001	0	69,001	69,001
17 Bengkulu	0	0	0	0	17,571	17,571	0	17,571	17,571
18 Lampung	0	0	0	0	26,109	26,109	0	26,109	26,109
Sumatera	0	6,085	6,085	0	710,514	710,514	0	716,599	716,599
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	7,575	7,575	0	8,982	8,982	0	16,557	16,557
33 Jawa Tengah	0	0	0	0	2,000	2,000	0	2,000	2,000
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	618	618	0	618	618
Jawa	0	7,575	7,575	0	11,600	11,600	0	19,175	19,175
51 Bali	0	0	0	0	26,879	26,879	0	26,879	26,879
52 Nusa Tenggara Barat	0	3,717	3,717	0	13,651	13,651	0	17,368	17,368
53 Nusa Tenggara Timur	0	1,303	1,303	0	25,967	25,967	0	27,270	27,270
54 Timor Timur	0	4,150	4,150	0	10,750	10,750	0	14,900	14,900
Bali & Nusa Tenggara	0	9,170	9,170	0	77,247	77,247	0	86,417	86,417
61 Kalimantan Barat	0	844	844	0	14,893	14,893	0	15,737	15,737
62 Kalimantan Tengah	0	0	0	0	15,240	15,240	0	15,240	15,240
63 Kalimantan Selatan	0	223	223	0	37,284	37,284	0	37,507	37,507
64 Kalimantan Timur	0	0	0	0	3,775	3,775	0	3,775	3,775
Kalimantan	0	1,067	1,067	0	71,192	71,192	0	72,259	72,259
71 Sulawesi Utara	0	322	322	0	24,075	24,075	0	24,397	24,397
72 Sulawesi Tengah	0	8,250	8,250	0	61,217	61,217	0	69,467	69,467
73 Sulawesi Selatan	0	9,524	9,524	0	265,005	265,005	0	274,529	274,529
74 Sulawesi Tenggara	0	630	630	0	29,143	29,143	0	29,773	29,773
Sulawesi	0	18,726	18,726	0	379,440	379,440	0	398,166	398,166
81 Maluku	0	0	0	0	25,223	25,223	0	25,223	25,223
82 Irian Jaya	0	0	0	0	11,983	11,983	0	11,983	11,983
Maluku & Irian Jaya	0	0	0	0	37,206	37,206	0	37,206	37,206
Indonesia	0	42,623	42,623	0	1,287,199	1,287,199	0	1,329,822	1,329,822

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.24 Classification of Expandable Area by Required Works (Surface Irrigation) (1/2)

	Extension On-Going				Extension Proposed				Extension Total				Unit : ha			
	Total	Category 1	Category 2	Category 3	Category 4	Total	Category 1	Category 2	Category 3	Category 4	Total	Category 1		Category 2	Category 3	Category 4
	11 D.I.Aceh	35,898	4,826	12,782	925	17,365	36,269	3,284	22,278	3,414	7,293	72,167		8,110	35,060	4,339
12 Sumatera Utara	20,100	7,868	1,036	3,763	7,433	2,666	607	0	2,039	20	22,766	8,475	1,056	5,802	7,453	
13 Sumatera Barat	22,679	678	0	11,516	10,485	23,659	3,686	595	12,939	6,439	46,338	4,364	595	24,455	16,924	
14 Riau	7,782	240	0	944	6,598	1,647	0	837	810	9,429	240	0	1,781	7,408		
15 Jambi	7,531	0	0	497	7,034	16,070	0	13,000	2,477	593	23,601	0	13,000	2,974	7,627	
16 Sumatera Selatan	1,412	0	0	213	1,199	5,445	0	4,248	1,197	6,857	0	0	4,461	2,396		
17 Bengkulu	0	0	0	0	0	1,205	0	1,129	76	1,205	0	0	1,129	76		
18 Lampung	11,076	3,673	0	7,084	319	8,045	72	0	7,973	0	19,121	3,745	0	15,057	319	
Sumatera	106,478	17,285	13,818	24,942	50,433	95,006	7,649	35,873	35,056	16,428	201,484	24,934	49,691	59,998	66,861	
31 D.K.I.Jakarta	60	0	0	60	0	35	0	0	0	35	95	0	0	60	35	
32 Jawa Barat	2,092	1,447	350	167	128	1,100	0	1,100	0	0	3,192	1,447	1,450	167	128	
33 Jawa Tengah	645	300	25	0	320	0	0	0	0	0	645	300	25	0	320	
34 D.I.Jogyakarta	209	0	209	0	0	1,139	0	989	150	0	1,348	0	1,198	150	0	
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jawa	3,006	1,747	584	227	448	2,274	0	2,089	150	35	5,280	1,747	2,673	377	483	
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
52 Nusa Tenggara Barat	5,252	1,233	711	3,308	0	4,672	4,100	164	288	120	9,924	5,333	875	3,596	120	
53 Nusa Tenggara Timur	161	42	0	119	0	4,144	0	0	2,248	1,896	4,305	42	0	2,367	1,896	
54 Timor Timur	314	314	0	0	0	0	0	0	0	0	314	314	0	0	0	
Bali & Nusa Tenggara	5,727	1,599	711	3,427	0	8,816	4,100	164	2,536	2,016	14,543	5,689	875	5,963	2,016	
61 Kalimantan Barat	1,188	164	80	226	718	1,181	0	1,000	6	175	2,369	164	1,080	232	893	
62 Kalimantan Tengah	300	195	0	105	0	247	0	0	227	20	547	195	0	227	125	
63 Kalimantan Selatan	26,671	4,645	24,922	(2,896)	0	2,099	191	0	531	1,377	28,770	4,836	24,922	(2,365)	1,377	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kalimantan	28,159	5,004	25,002	(2,670)	823	3,527	191	1,000	764	1,572	31,686	5,195	26,002	(1,906)	2,995	
71 Sulawesi Utara	958	0	0	100	858	7,650	2,855	4,795	0	0	8,608	2,855	4,795	100	858	
72 Sulawesi Tengah	10,264	0	9,820	200	244	7,218	3,514	2,008	1,696	0	17,482	3,514	11,828	1,896	244	
73 Sulawesi Selatan	9	0	0	0	9	6,037	0	2,740	0	3,297	6,046	0	2,740	0	3,306	
74 Sulawesi Tenggara	92	0	0	192	(100)	1,523	268	116	1,659	(500)	1,615	268	116	1,831	(600)	
Sulawesi	11,323	0	9,820	492	1,011	22,428	6,637	9,659	3,335	2,797	33,751	6,637	19,479	3,827	3,808	
81 Maluku	5,120	800	0	402	3,918	625	0	0	0	625	5,745	800	0	402	4,543	
82 Irian Jaya	59	9	0	(25)	75	5,000	5,000	0	0	0	5,059	5,009	0	(25)	75	
Maluku & Irian Jaya	5,179	809	0	377	3,993	5,625	5,000	0	0	625	10,804	5,809	0	377	4,618	
Indonesia	159,872	26,434	49,935	26,795	56,708	137,676	23,577	48,785	41,841	23,473	297,548	50,011	98,720	68,695	80,181	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.24 Classification of Expandable Area by Required Works (Surface Irrigation) (2/2)

Unit : ha

	Construction On-Going					Construction Proposed					Construction Total				
	Total	Category 1	Category 2	Category 3	Category 4	Total	Category 1	Category 2	Category 3	Category 4	Total	Category 1	Category 2	Category 3	Category 4
11 D.I.Aceh	0	0	0	0	0	126,310	75,328	36,190	0	14,792	126,310	75,328	36,190	0	14,792
12 Sumatera Utara	5,600	3,660	1,820	120	0	179,123	103,335	72,751	0	3,037	184,723	106,995	74,571	120	3,037
13 Sumatera Barat	485	0	0	0	485	29,335	18,808	3,449	840	6,238	29,820	18,808	3,449	840	6,238
14 Riau	0	0	0	0	0	244,128	149,205	86,153	703	8,067	244,128	149,205	86,153	703	8,067
15 Jambi	0	0	0	0	0	18,937	13,151	5,636	150	0	18,937	13,151	5,636	150	0
16 Sumatera Selatan	0	0	0	0	0	69,001	48,299	20,702	0	0	69,001	48,299	20,702	0	0
17 Bengkulu	0	0	0	0	0	17,571	13,318	3,873	380	0	17,571	13,318	3,873	380	0
18 Lampung	0	0	0	0	0	26,109	17,113	7,744	502	750	26,109	17,113	7,744	502	750
Sumatera	6,085	3,660	1,820	120	485	710,514	438,537	236,498	2,575	32,884	716,599	442,217	238,318	2,695	33,369
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	7,575	1,936	1,984	635	3,020	8,982	5,460	2,340	22	1,160	16,557	7,996	4,324	657	4,180
33 Jawa Tengah	0	0	0	0	0	2,000	1,400	600	0	0	2,000	1,400	600	0	0
34 D.I.Jogjakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	618	0	0	0	618	618	0	0	0	618
Jawa	7,575	1,936	1,984	635	3,020	11,600	6,860	2,940	22	1,778	19,175	8,796	4,924	657	4,798
51 Bali	0	0	0	0	0	26,879	17,938	7,695	0	1,246	26,879	17,938	7,695	0	1,246
52 Nusa Tenggara Barat	3,717	2,717	1,000	0	0	13,651	9,555	4,096	0	0	17,368	12,272	5,096	0	0
53 Nusa Tenggara Timur	1,303	0	441	0	862	25,967	16,622	7,469	196	1,680	27,270	16,622	7,910	196	2,542
54 Timor Timur	4,150	1,200	0	2,000	950	10,750	7,985	2,265	500	0	14,900	9,185	2,265	2,500	950
Bali & Nusa Tenggara	9,170	3,917	1,441	2,000	1,812	77,247	52,100	21,525	696	2,926	86,417	56,017	22,966	2,696	4,738
61 Kalimantan Barat	844	776	68	0	0	14,893	7,818	4,065	190	2,820	15,737	8,594	4,133	190	2,820
62 Kalimantan Tengah	0	0	0	0	0	15,240	10,440	3,960	11	829	15,240	10,440	3,960	11	829
63 Kalimantan Selatan	223	308	20	(5)	(100)	37,284	26,098	11,186	0	0	37,507	26,406	11,206	(5)	(100)
64 Kalimantan Timur	0	0	0	0	0	3,775	2,550	795	255	175	3,775	2,550	795	255	175
Kalimantan	1,067	1,084	88	(5)	(100)	71,192	46,906	20,006	456	3,824	72,259	47,990	20,094	451	3,724
71 Sulawesi Utara	322	322	0	0	0	24,075	18,644	5,431	0	0	24,397	18,966	5,431	0	0
72 Sulawesi Tengah	8,250	6,000	2,250	0	0	61,217	45,149	15,168	(1,500)	2,400	69,467	51,149	17,418	(1,500)	2,400
73 Sulawesi Selatan	9,524	0	9,524	0	0	265,005	62,274	200,796	785	1,150	274,529	62,274	210,320	785	1,150
74 Sulawesi Tenggara	630	370	260	0	0	29,143	20,400	8,743	0	0	29,773	20,770	9,003	0	0
Sulawesi	18,726	6,692	12,034	0	0	379,440	146,487	230,138	(715)	3,550	398,166	153,159	242,172	(715)	3,550
81 Maluku	0	0	0	0	0	25,223	17,656	7,567	0	0	25,223	17,656	7,567	0	0
82 Irian Jaya	0	0	0	0	0	11,983	8,386	3,597	0	0	11,983	8,386	3,597	0	0
Maluku & Irian Jaya	0	0	0	0	0	37,206	26,042	11,164	0	0	37,206	26,042	11,164	0	0
Indonesia	42,623	17,289	17,367	2,750	5,217	1,287,199	716,932	522,271	3,034	44,962	1,329,822	734,221	529,638	5,784	50,179

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.25 Breakdown of Confirmed Swamp Irrigation Schemes

Province	Existing Scheme										New Construction			Total
	Current O/M		Rehabilitation		Extension		Total		Scheme		Nos. of Schemes	Designed Area		
	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area				
11 D.I.Aceh	0	0	0	0	0	0	0	0	0	0	16	30,550	16	30,550
12 Sumatera Utara	81	174,215	12	44,616	1	6,000	94	224,831	11	85,555	105	310,386	105	310,386
13 Sumatera Barat	0	0	3	23,341	3	6,400	6	29,741	3	11,350	9	41,091	9	41,091
14 Riau	160	287,353	6	26,005	0	0	166	313,358	2	13,900	168	327,258	168	327,258
15 Jambi	0	0	13	74,756	0	0	13	74,756	2	489	15	75,245	15	75,245
16 Sumatera Selatan	39	167,261	6	93,190	0	0	45	260,451	2	11,865	47	272,316	47	272,316
17 Bengkulu	0	0	0	0	2	8,755	2	8,755	4	4,200	6	12,955	6	12,955
18 Lampung	2	20,900	5	53,220	0	0	7	74,120	0	0	7	74,120	7	74,120
Sumatera	282	649,729	45	315,128	6	21,155	333	986,012	40	157,909	373	1,143,921	373	1,143,921
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	36	84,186	7	8,440	18	45,394	61	138,020	2	6,863	63	144,883	63	144,883
62 Kalimantan Tengah	107	260,940	2	2,011	6	9,456	115	272,407	1	1,000	116	273,407	116	273,407
63 Kalimantan Selatan	78	131,420	5	19,200	4	14,550	87	165,170	1	1,500	88	166,670	88	166,670
64 Kalimantan Timur	10	9,595	2	7,685	0	0	12	17,280	0	0	12	17,280	12	17,280
Kalimantan	231	486,141	16	37,336	28	69,400	275	592,877	4	9,363	279	602,240	279	602,240
71 Sulawesi Utara	34	1,122	0	0	0	0	34	1,122	0	0	34	1,122	34	1,122
72 Sulawesi Tengah	10	9,400	5	17,618	1	10,000	16	37,018	5	3,000	21	40,018	21	40,018
73 Sulawesi Selatan	44	430,574	0	0	0	0	44	430,574	21	41,941	65	472,515	65	472,515
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	3	7,405	3	7,405	3	7,405
Sulawesi	88	441,096	5	17,618	1	10,000	94	468,714	29	52,346	123	521,060	123	521,060
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	0	0	0	0	1	6,000	1	6,000	7	52,470	8	58,470	8	58,470
Maluku & Irian Jaya	0	0	0	0	1	6,000	1	6,000	7	52,470	8	58,470	8	58,470
Indonesia	601	1,576,966	66	370,082	36	106,555	703	2,053,603	80	272,088	783	2,325,691	783	2,325,691

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.26 Breakdown of Confirmed Swamp Irrigation Schemes (On-Going)

Province	Existing Scheme						New Construction						Total
	Rehabilitation		Extension		Total		Scheme		Scheme		Total		
	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	Nos. of Schemes	Designed Area	
11 D.I.Aceh	0	0	0	0	0	0	0	10	17,550	10	17,550	17,550	
12 Sumatera Utara	6	10,926	0	0	6	10,926	2	23,130	8	34,056	34,056		
13 Sumatera Barat	2	16,266	3	6,400	5	22,666	1	6,000	6	28,666	28,666		
14 Riau	5	23,325	0	0	5	23,325	1	3,000	6	26,325	26,325		
15 Jambi	0	0	0	0	0	0	0	0	0	0	0		
16 Sumatera Selatan	2	44,900	0	0	2	44,900	1	11,400	3	56,300	56,300		
17 Bengkulu	0	0	1	6,500	1	6,500	1	700	2	7,200	7,200		
18 Lampung	4	42,770	0	0	4	42,770	0	0	4	42,770	42,770		
Sumatera	19	138,187	4	12,900	23	151,087	16	61,780	39	212,867	212,867		
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0		
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0		
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0		
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0		
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0		
Jawa	0	0	0	0	0	0	0	0	0	0	0		
51 Bali	0	0	0	0	0	0	0	0	0	0	0		
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0		
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0		
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0		
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0		
61 Kalimantan Barat	3	5,827	13	37,025	16	42,852	1	1,250	17	44,102	44,102		
62 Kalimantan Tengah	1	1,711	4	5,956	5	7,667	0	0	5	7,667	7,667		
63 Kalimantan Selatan	3	15,450	2	10,800	5	26,250	1	1,500	6	27,750	27,750		
64 Kalimantan Timur	2	7,685	0	0	2	7,685	0	0	2	7,685	7,685		
Kalimantan	9	30,673	19	53,781	28	84,454	2	2,750	30	87,204	87,204		
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0		
72 Sulawesi Tengah	3	6,862	1	10,000	4	16,862	0	0	4	16,862	16,862		
73 Sulawesi Selatan	0	0	0	0	0	0	3	9,341	3	9,341	9,341		
74 Sulawesi Tenggara	0	0	0	0	0	0	3	7,405	3	7,405	7,405		
Sulawesi	3	6,862	1	10,000	4	16,862	6	16,746	10	33,608	33,608		
81 Maluku	0	0	0	0	0	0	0	0	0	0	0		
82 Irian Jaya	0	0	1	6,000	1	6,000	4	8,270	5	14,270	14,270		
Maluku & Irian Jaya	0	0	1	6,000	1	6,000	4	8,270	5	14,270	14,270		
Indonesia	31	175,722	25	82,681	56	258,403	28	89,546	84	347,949	347,949		

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.27 Breakdown of Confirmed Swamp Irrigation Schemes (Proposed)

Province	Existing Scheme				New Construction				Total	
	Rehabilitation		Extension		Scheme		Scheme			
	Nos. of Schemes	Area	Nos. of Schemes	Area	Nos. of Schemes	Area	Nos. of Schemes	Area		
11 D.I. Aceh	0	0	0	0	0	0	6	13,000	6	13,000
12 Sumatera Utara	6	33,690	1	6,000	7	39,690	9	62,425	16	102,115
13 Sumatera Barat	1	7,075	0	0	1	7,075	2	5,350	3	12,425
14 Riau	1	2,680	0	0	1	2,680	1	10,900	2	13,580
15 Jambi	13	74,756	0	0	13	74,756	2	489	15	75,245
16 Sumatera Selatan	4	48,290	0	0	4	48,290	1	465	5	48,755
17 Bengkulu	0	0	1	2,255	1	2,255	3	3,500	4	5,755
18 Lampung	1	10,450	0	0	1	10,450	0	0	1	10,450
Sumatera	26	176,941	2	8,255	28	185,196	24	96,129	52	281,325
31 D.K.I. Jakarta	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0
34 D.I. Jogyakarta	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	4	2,613	5	8,369	9	10,982	1	5,613	10	16,595
62 Kalimantan Tengah	1	300	2	3,500	3	3,800	1	1,000	4	4,800
63 Kalimantan Selatan	2	3,750	2	3,750	4	7,500	0	0	4	7,500
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0
Kalimantan	7	6,663	9	15,619	16	22,282	2	6,613	18	28,895
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0
72 Sulawesi Tengah	2	10,756	0	0	2	10,756	5	3,000	7	13,756
73 Sulawesi Selatan	0	0	0	0	0	0	18	32,600	18	32,600
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0
Sulawesi	2	10,756	0	0	2	10,756	23	35,600	25	46,356
81 Maluku	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	0	0	0	0	0	0	3	44,200	3	44,200
Maluku & Irian Jaya	0	0	0	0	0	0	3	44,200	3	44,200
Indonesia	35	194,360	11	23,874	46	218,234	52	182,542	98	400,776

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.28 Present Status of Swamp Irrigation Scheme (Current O/M)

Province	Nos. of Scheme	Area Functional						Area not yet functional						Total Area								
		Agriculture			Fish Pond			Agriculture			Fish Pond			Agriculture			Fish Pond					
		Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Others	Total	
D.I.Aceh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 Sumatera Utara	81	54,729	47,947	6,449	333	0	2,217	56,946	33,456	24,262	7,202	1,992	330	83,463	117,269	88,185	71,609	13,651	2,325	350	85,680	174,215
13 Sumatera Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Riau	160	222,905	79,505	13,691	119,696	0	9,768	229,833	55,034	1,528	36,923	0	0	9,140	65,899	266,128	44,051	46,394	78,722	0	18,772	287,553
15 Jambi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Sumatera Selatan	39	140,731	89,095	27,654	23,982	0	8,284	149,015	10,947	8,300	2,647	0	0	7,299	18,246	151,678	97,395	30,301	23,982	0	15,583	167,261
17 Bengkulu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Lampung	2	5,180	2,680	2,500	0	0	15,720	30,900	99,437	34,090	46,772	1,992	350	99,902	201,414	511,171	215,735	92,846	105,029	350	155,755	649,729
Sumatera	282	423,545	219,227	50,294	144,011	0	35,989	456,694	99,437	34,090	46,772	1,992	350	99,902	201,414	511,171	215,735	92,846	105,029	350	155,755	649,729
31 D.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogjakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	36	41,644	21,491	8,545	11,255	0	8,019	49,663	26,508	26,508	0	0	0	8,015	34,523	68,153	47,999	8,545	11,254	0	15,638	84,186
62 Kalimantan Tengah	107	162,670	113,752	14,523	34,398	32	9,505	172,207	77,517	62,231	7,142	8,145	0	11,221	88,737	240,180	175,979	21,665	42,543	32	20,726	260,940
63 Kalimantan Selatan	78	78,237	71,818	6,110	1,909	0	3,990	82,227	33,700	33,000	0	0	0	10,793	44,493	111,937	104,418	4,510	1,924	0	14,783	131,420
64 Kalimantan Timur	10	1,020	1,020	0	0	0	407	1,427	6,688	5,361	807	660	0	1,340	8,168	7,708	6,381	807	660	0	1,747	9,595
Kalimantan	231	283,571	208,081	29,178	47,562	32	21,921	305,524	144,413	127,100	7,949	8,805	0	31,369	175,921	427,978	334,777	35,527	56,381	32	52,894	486,141
71 Sulawesi Utara	34	310	245	45	20	95	10	415	144	119	8	5	42	521	707	454	364	53	25	137	531	1,122
72 Sulawesi Tengah	10	1,500	1,500	0	0	0	0	5,956	774	774	0	0	0	2,690	3,464	2,274	2,274	0	0	4,436	2,690	9,400
73 Sulawesi Selatan	44	508,508	116,908	1,496	189,804	41,240	6,502	556,250	4,000	4,000	0	0	1,838	68,436	74,524	312,508	121,208	1,496	189,804	43,128	74,938	430,574
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi	88	310,318	118,653	1,541	189,824	45,771	6,512	362,601	4,918	4,893	8	5	1,930	71,647	78,495	315,236	123,846	1,549	189,829	47,701	78,159	441,096
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maluku & Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indonesia	601	1,017,434	545,961	81,013	381,397	45,803	64,422	1,124,819	248,768	166,083	54,729	10,802	2,280	202,918	455,830	1,254,385	674,358	129,922	351,239	48,083	266,808	1,576,966

Source : Result of Inventory Survey Conducted by IICA FIDP Team

Table 4.29 Present Status of Swamp Irrigation Scheme (Rehabilitation)

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area		Unit : ha							
		Agriculture			Fish Pond			Agriculture			Fish Pond			Fish Pond	Others		Total						
		Paddy	Upland	Total	Garden	Upland	Total	Paddy	Upland	Total	Garden	Upland	Total										
11 D.I.Aceh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
12 Sumatera Utara	12	22,967	19,663	1,579	1,725	0	2,080	25,047	1,000	0	0	600	100	18,469	19,569	23,967	19,663	1,979	2,325	100	20,549	44,616	
13 Sumatera Barat	3	8,038	4,275	3,763	0	0	6,370	14,408	0	0	0	0	0	8,933	8,933	8,038	4,275	3,763	0	0	15,303	23,341	
14 Riau	6	10,898	10,898	0	0	0	15,107	26,005	0	0	0	0	0	0	0	10,898	10,898	0	0	0	15,107	26,005	
15 Jambi	13	48,360	47,458	902	0	0	26,396	74,756	0	0	0	0	0	0	0	48,360	47,458	902	0	0	26,396	74,756	
16 Sumatera Selatan	6	86,680	71,190	15,400	90	0	6,510	93,190	0	0	0	0	0	0	0	86,680	71,190	15,400	90	0	6,510	93,190	
17 Bengkulu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Lampung	5	32,042	28,179	3,538	325	1,550	19,628	53,220	0	0	0	0	0	0	0	32,042	28,179	3,538	325	1,550	19,628	53,220	
Sumatera	45	208,985	181,663	25,182	2,140	1,550	76,091	286,626	1,000	0	0	500	100	27,402	28,502	209,985	181,663	25,582	2,740	1,650	103,493	315,128	
31 D.K.I.Ijakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	7	7,926	4,830	0	0	0	280	8,206	0	0	0	0	0	234	234	7,926	4,830	0	0	0	0	514	8,440
62 Kalimantan Tengah	2	1,891	1,121	770	0	0	120	2,011	0	0	0	0	0	0	0	1,891	1,121	770	0	0	120	2,011	
63 Kalimantan Selatan	5	13,930	13,730	0	200	0	274	14,204	0	0	0	0	0	4,996	4,996	13,930	13,730	0	200	0	5,270	19,200	
64 Kalimantan Timur	2	4,050	2,870	500	680	0	1,685	5,735	1,934	0	1,934	0	0	16	1,950	5,984	2,870	500	2,614	0	1,701	7,685	
Kalimantan	16	27,797	22,551	1,274	3,972	0	2,359	30,156	1,934	0	1,934	0	0	5,246	7,180	29,731	22,551	1,274	5,906	0	7,605	37,336	
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Sulawesi Tengah	5	3,225	2,225	250	750	0	0	3,225	0	0	0	0	0	14,393	14,393	3,225	2,225	250	750	0	14,393	17,618	
73 Sulawesi Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi	5	3,225	2,225	250	750	0	0	3,225	0	0	0	0	0	14,393	14,393	3,225	2,225	250	750	0	14,393	17,618	
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maluku & Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indonesia	66	240,007	206,439	26,706	6,862	1,550	78,450	320,007	2,934	0	400	2,534	100	47,041	50,075	242,941	206,439	27,106	9,396	1,650	125,491	370,082	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.31 Present Status of Swamp Irrigation Scheme (Rehabilitation, Proposed)

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area									
		Agriculture			Fish Pond			Agriculture			Fish Pond			Agriculture			Fish Pond						
		Paddy	Upland	Garden	Total	Fish	Others	Total	Paddy	Upland	Garden	Total	Fish	Others	Total	Paddy	Upland	Garden	Total	Fish	Others	Total	
11 D.I.Aceh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Sumatera Utara	6	16,793	13,584	1,484	1,725	0	1,957	18,750	850	0	400	450	0	14,090	14,940	17,643	13,584	1,884	2,175	0	16,047	33,690	
13 Sumatera Barat	1	705	675	30	0	0	6,370	7,075	0	0	0	0	0	0	0	705	675	30	0	0	6,370	7,075	
14 Riau	1	457	457	0	0	0	2,223	2,680	0	0	0	0	0	0	0	457	457	0	0	0	2,223	2,680	
15 Jambi	13	48,360	47,458	902	0	0	26,396	74,756	0	0	0	0	0	0	0	48,360	47,458	902	0	0	26,396	74,756	
16 Sumatera Selatan	4	41,780	26,290	15,400	90	0	6,510	48,290	0	0	0	0	0	0	0	41,780	26,290	15,400	90	0	6,510	48,290	
17 Bengkulu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Lampung	1	2,590	1,340	1,250	0	0	7,860	10,450	0	0	0	0	0	0	0	2,590	1,340	1,250	0	0	7,860	10,450	
Sumatera	26	110,685	89,804	19,066	1,815	0	51,316	162,001	850	0	400	450	0	14,090	14,940	111,535	89,804	19,466	2,265	0	65,406	176,941	
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	4	2,413	1,975	0	438	0	200	2,613	0	0	0	0	0	0	0	2,413	1,975	0	438	0	200	2,613	
62 Kalimantan Tengah	1	300	300	0	0	0	0	300	0	0	0	0	0	0	0	300	300	0	0	0	0	300	
63 Kalimantan Selatan	2	2,850	2,850	0	0	0	54	2,904	0	0	0	0	846	846	2,850	2,850	0	0	0	0	900	3,750	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kalimantan	7	5,563	5,125	0	438	0	254	5,817	0	0	0	0	846	846	5,563	5,125	0	438	0	1,100	6,663		
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
72 Sulawesi Tengah	2	900	600	0	300	0	0	900	0	0	0	0	9,856	9,856	900	600	0	300	0	9,856	10,756		
73 Sulawesi Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sulawesi	2	900	600	0	300	0	0	900	0	0	0	0	9,856	9,856	900	600	0	300	0	9,856	10,756		
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
82 Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Maluku & Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indonesia	35	117,148	95,529	19,066	2,553	0	51,570	168,718	850	0	400	450	0	24,792	25,642	117,998	95,529	19,466	3,003	0	76,362	194,360	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.33 Present Status of Swamp Irrigation Scheme (Extension, On-Going)

Unit : ha

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area										
		Agriculture			Fish Others			Agriculture			Fish Others			Agriculture			Fish Others							
		Total	Paddy	Upland	Garden	Pond	Total	Total	Paddy	Upland	Garden	Pond	Total	Total	Paddy	Upland	Garden	Pond	Total	Total	Paddy	Upland	Garden	Pond
D.I.Aceh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera Barat	3	2,850	1,219	1,269	362	0	250	3,100	3,300	1,200	2,100	0	0	3,300	6,150	2,419	3,369	362	0	250	6,400	0	0	0
Riau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jambi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Bengkulu	1	375	375	0	0	0	0	375	4,655	1,657	2,148	850	0	1,470	6,125	5,060	2,032	2,148	850	0	1,470	6,500	0	0
18 Lampung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera	4	3,225	1,594	1,269	362	0	250	3,475	7,955	2,857	4,248	850	0	1,470	9,425	11,180	4,451	5,517	1,212	0	1,720	12,900	0	0
D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	13	18,003	14,174	189	3,641	0	5,906	23,909	9,276	9,276	0	0	0	3,841	13,117	27,279	23,450	189	3,641	0	9,647	37,025	0	0
62 Kalimantan Tengah	4	3,550	2,400	550	600	0	25	3,575	2,075	1,690	175	210	0	306	2,381	5,625	4,090	4,775	810	0	331	5,956	0	0
63 Kalimantan Selatan	2	7,516	5,516	0	2,000	0	0	1,065	3,284	3,284	0	0	0	0	3,284	10,800	8,800	0	2,000	0	0	10,800	0	0
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan	19	29,069	22,090	739	6,241	0	5,931	28,549	14,635	14,250	175	210	0	4,147	18,782	43,704	36,340	4,964	6,451	0	9,978	53,781	0	0
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Sulawesi Tengah	1	700	700	0	0	0	0	700	9,300	9,300	0	0	0	0	9,300	10,000	10,000	0	0	0	0	10,000	0	0
73 Sulawesi Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi	1	700	700	0	0	0	0	700	9,300	9,300	0	0	0	0	9,300	10,000	10,000	0	0	0	0	10,000	0	0
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	1	800	800	0	0	0	0	800	5,200	5,200	0	0	0	0	5,200	6,000	6,000	0	0	0	0	6,000	0	0
Maluku & Irian Jaya	1	800	800	0	0	0	0	800	5,200	5,200	0	0	0	0	5,200	6,000	6,000	0	0	0	0	6,000	0	0
Indonesia	25	33,794	25,184	2,008	6,603	0	6,181	33,524	37,090	31,607	4,423	1,060	0	5,617	42,707	70,884	56,791	10,481	7,663	0	11,698	82,681	0	0

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.34 Present Status of Swamp Irrigation Scheme (Extension, Proposed)

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area							
		Agriculture			Fish Others Total			Agriculture			Fish Others Total			Agriculture			Fish Others Total				
		Paddy	Upland	Garden Pond	Total	Paddy	Upland	Garden Pond	Total	Paddy	Upland	Garden Pond	Total	Paddy	Upland	Garden Pond	Total	Paddy	Upland	Garden Pond	Total
D.I.Aceh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera Utara	1	2,845	2,100	745	0	5	2,850	950	950	0	0	2,200	3,150	3,795	3,050	745	0	0	0	2,205	6,000
Sumatera Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Riau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jambi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bengkulu	1	1,611	1,566	35	10	0	1,611	502	327	175	0	142	644	2,113	1,893	210	10	0	142	2,255	0
Lampung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera	2	4,456	3,666	780	10	5	4,461	1,452	1,277	175	0	2,342	3,794	5,908	4,943	955	10	0	2,347	8,255	0
D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan Barat	5	3,597	2,141	319	1,137	0	1,425	5,022	2,543	2,243	0	300	3,547	6,140	4,384	319	1,437	0	2,229	8,369	0
Kalimantan Tengah	2	2,089	1,639	0	450	0	15	2,104	1,100	700	200	296	1,396	3,189	2,339	200	650	296	15	3,500	0
Kalimantan Selatan	2	1,612	1,612	0	0	0	0	1,612	2,138	1,638	0	0	2,138	3,750	3,750	0	0	0	0	3,750	0
Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan	9	7,298	5,392	319	1,587	0	1,440	8,738	5,781	4,581	200	500	6,881	13,079	10,473	519	2,087	296	2,244	15,619	0
Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maluku & Irian Jaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indonesia	11	11,754	9,058	1,099	1,597	0	1,445	13,199	7,233	5,858	375	500	296	18,987	15,416	1,474	2,097	296	4,591	23,874	0

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Table 4.35 Present Status of Swamp Irrigation Scheme (Existing Scheme)

Nos. of Scheme	Province	Area functional						Area not yet functional						Total Area					
		Agriculture			Fish Pond			Agriculture			Fish Pond			Agriculture			Fish Pond		
		Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden	Paddy	Upland	Garden
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	D.I.Aceh	80,541	69,710	8,773	2,038	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Sumatera Utara	10,888	5,494	5,032	362	0	6,302	84,843	35,406	25,212	7,602	2,592	450	104,132	139,988	115,947	94,322	16,375	4,650
13	Sumatera Barat	233,803	90,403	13,691	119,696	0	24,875	255,838	55,034	1,528	36,923	0	0	9,140	65,899	277,026	54,949	46,394	78,722
14	Riau	48,360	47,458	902	0	0	26,396	74,756	0	0	0	0	0	0	0	48,360	47,458	902	0
15	Jambi	227,411	160,235	43,054	24,072	0	14,794	242,205	10,947	8,300	2,647	0	0	7,299	18,246	238,358	168,585	45,701	24,072
16	Sumatera Selatan	1,986	1,941	35	10	0	1,986	74,120	5,157	1,984	2,323	850	0	1,612	6,769	7,145	3,925	2,358	860
17	Bengkulu	37,222	30,859	6,038	325	1,550	35,348	74,120	0	0	0	0	0	0	0	37,222	30,859	6,038	325
18	Lampung	640,211	406,150	77,523	146,523	1,550	112,335	751,256	109,844	38,224	51,595	3,442	450	131,116	243,135	738,244	406,792	124,900	108,991
31	D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	D.I.Jogjakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Kalimantan Barat	71,170	42,636	9,057	19,125	0	15,630	86,800	38,327	38,027	0	0	0	12,894	51,221	109,498	80,663	9,057	19,424
62	Kalimantan Tengah	170,200	118,912	15,843	35,448	32	9,665	179,897	80,692	64,621	7,517	8,555	296	11,527	92,514	250,885	183,529	27,410	44,003
63	Kalimantan Selatan	101,295	92,676	6,110	4,109	0	4,264	99,108	59,122	37,922	0	0	0	15,789	54,911	140,417	130,698	4,510	4,124
64	Kalimantan Timur	5,070	3,890	500	680	0	2,092	7,162	8,622	5,361	807	2,594	0	1,356	10,118	13,692	9,251	1,307	3,274
275	Kalimantan	347,735	258,114	31,510	59,362	32	31,651	372,967	166,763	143,991	8,324	11,449	296	41,566	208,764	514,492	404,141	42,284	70,825
34	Sulawesi Utara	310	245	45	20	95	10	415	144	119	8	5	42	521	707	454	364	53	25
16	Sulawesi Tengah	5,425	4,425	250	750	4,436	0	9,861	10,074	10,074	0	0	0	17,083	27,157	15,499	14,499	250	750
44	Sulawesi Selatan	308,508	116,908	1,496	189,804	41,240	6,502	356,250	4,000	4,000	0	0	0	68,435	74,324	312,508	121,208	1,496	189,804
74	Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Sulawesi	314,243	121,578	1,791	190,574	45,771	6,512	366,526	14,218	14,195	8	5	1,950	86,040	102,188	328,461	136,071	1,799	190,579
81	Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Irian Jaya	800	800	0	0	0	0	800	5,200	5,200	0	0	0	0	5,200	6,000	6,000	0	0
1	Maluku & Irian Jaya	800	800	0	0	0	0	800	5,200	5,200	0	0	0	0	5,200	6,000	6,000	0	0
703	Indonesia	1,902,989	786,642	110,826	396,459	47,353	150,498	1,491,549	296,025	203,548	59,927	14,896	2,876	258,722	599,287	1,587,197	952,004	168,983	370,395

Source: Result of Inventory Survey Conducted by JICA/FIDP Team

Table 4.36 Present Status of Swamp Irrigation Scheme (New Construction)

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area	Fish Pond	Others	Total		
		Agriculture			Fish Pond			Agriculture			Fish Pond								
		Total	Paddy	Upland	Total	Fish Pond	Garden	Total	Paddy	Upland	Total	Fish Pond	Garden						
11 D.I.Aceh	16	0	0	0	800	0	800	26,100	13,300	6,300	6,500	29,750	26,100	13,300	6,300	6,500	4,250	200	30,550
12 Sumatera Utara	11	0	0	0	0	0	0	29,686	9,601	1,658	18,427	85,555	29,686	9,601	1,658	18,427	50	45,969	85,555
13 Sumatera Barat	3	0	0	0	0	0	0	11,350	11,350	0	0	11,350	11,350	11,350	0	0	0	0	11,350
14 Riau	2	200	0	200	10,700	13,900	0	0	0	0	0	0	200	200	0	0	0	10,700	13,900
15 Jambi	2	0	0	0	0	0	0	489	377	0	112	489	489	377	0	112	0	0	489
16 Sumatera Selatan	2	0	0	0	0	0	0	11,290	6,600	3,740	950	11,865	11,290	6,600	3,740	950	0	575	11,865
17 Bengkulu	4	0	0	0	0	0	0	2,935	2,300	600	35	4,200	2,935	2,300	600	35	0	1,265	4,200
18 Lampung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera	40	200	0	200	800	10,700	14,700	81,850	43,528	12,298	26,024	48,009	82,050	43,528	12,498	26,024	4,300	58,709	157,909
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	2	0	0	0	0	0	0	5,775	5,775	0	0	200	5,975	5,775	5,775	0	0	1,088	6,863
62 Kalimantan Tengah	1	0	0	0	0	0	0	1,000	600	225	175	1,000	1,000	600	225	175	0	0	1,000
63 Kalimantan Selatan	1	0	0	0	0	0	0	1,350	1,350	0	0	150	1,500	1,350	0	0	0	150	1,500
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan	4	0	0	0	0	0	0	8,125	7,725	225	175	8,475	8,125	7,725	225	175	0	1,238	9,363
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Sulawesi Tengah	5	0	0	0	322	0	322	0	0	0	0	678	678	0	0	0	322	678	3,000
73 Sulawesi Selatan	21	0	0	0	150	0	150	3,843	1,947	1,896	0	764	3,964	3,843	1,947	1,896	0	914	41,941
74 Sulawesi Tenggara	3	0	0	0	690	0	690	957	40	450	467	3,058	6,715	957	40	450	467	3,690	2,758
Sulawesi	29	0	0	0	1,162	0	1,162	4,800	1,987	2,346	467	7,700	15,964	4,800	1,987	2,346	467	7,400	52,346
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	7	20,000	0	0	0	0	20,000	2,000	0	2,000	0	2,000	52,470	27,970	2,000	0	0	0	52,470
Maluku & Irian Jaya	7	20,000	0	0	0	0	20,000	2,000	0	2,000	0	2,000	52,470	27,970	2,000	0	0	0	52,470
Indonesia	80	20,200	0	200	0	1,962	10,700	96,775	53,240	16,869	26,666	7,264	169,648	147,445	81,210	17,069	26,666	9,226	272,088

Source : Result of Inventory Survey Conducted by JICA FIDP Team

Unit : ha

Table 4.37 Present Status of Swamp Irrigation Scheme (New Construction, On-Going)

Unit : ha

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area												
		Agriculture			Fish Pond			Agriculture			Fish Pond			Agriculture			Fish Pond									
		Total	Paddy	Upland	Total	Garden	Pond	Total	Paddy	Upland	Total	Garden	Pond	Total	Paddy	Upland	Total	Garden	Pond							
D.I.Aceh	10	0	0	0	0	800	0	800	0	0	0	13,100	7,400	3,100	2,600	3,450	200	16,750	13,100	7,400	3,100	2,600	4,250	200	17,550	
Sumatera Utara	2	0	0	0	0	0	0	0	0	0	0	379	151	150	78	0	12,901	23,130	379	151	150	78	0	12,901	23,130	
Sumatera Barat	1	0	0	0	0	0	0	0	0	0	0	6,000	6,000	0	0	0	0	6,000	6,000	6,000	0	0	0	0	6,000	
Riau	1	0	0	0	0	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,000
Jambi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera Selatan	1	0	0	0	0	0	0	0	0	0	0	10,850	6,400	3,500	950	0	550	11,400	10,850	6,400	3,500	950	0	550	11,400	
Bengkulu	1	0	0	0	0	0	0	0	0	0	0	700	650	50	0	0	0	700	700	650	50	0	0	0	0	700
Lampung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sumatera	16	0	0	0	0	800	0	800	0	3,800	0	31,029	20,601	6,800	3,628	3,450	13,651	57,980	31,029	20,601	6,800	3,628	4,250	13,651	61,780	
D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan Barat	1	0	0	0	0	0	0	0	0	0	0	1,050	1,050	0	0	0	200	1,250	1,050	1,050	0	0	0	0	200	1,250
Kalimantan Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan Selatan	1	0	0	0	0	0	0	0	0	0	0	1,350	1,350	0	0	0	150	1,500	1,350	1,350	0	0	0	0	150	1,500
Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan	2	0	0	0	0	0	0	0	0	0	0	2,400	2,400	0	0	0	350	2,750	2,400	2,400	0	0	0	0	350	2,750
Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi Selatan	3	0	0	0	0	150	0	150	0	150	0	3,843	1,947	1,896	0	764	3,964	8,571	3,843	1,947	1,896	0	914	3,964	9,341	
Sulawesi Tenggara	3	0	0	0	0	690	0	690	0	690	0	957	40	450	467	3,000	3,058	6,715	957	40	450	467	3,690	2,758	7,405	
Sulawesi	6	0	0	0	0	840	0	840	0	840	0	4,800	1,987	2,346	467	3,764	7,022	15,286	4,800	1,987	2,346	467	4,604	6,722	16,746	
Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irian Jaya	4	0	0	0	0	0	0	0	0	0	0	2,000	0	2,000	0	0	0	2,000	2,000	0	0	0	0	0	0	2,000
Maluku & Irian Jaya	4	0	0	0	0	0	0	0	0	0	0	2,000	0	2,000	0	0	0	2,000	2,000	0	0	0	0	0	0	2,000
Indonesia	28	0	0	0	0	1,640	0	1,640	0	4,640	0	40,229	24,988	11,146	4,095	7,214	21,023	78,016	45,499	28,758	11,146	4,095	8,854	20,723	89,546	

Source : Result of Inventory Survey Conducted by JICA FIDP Team

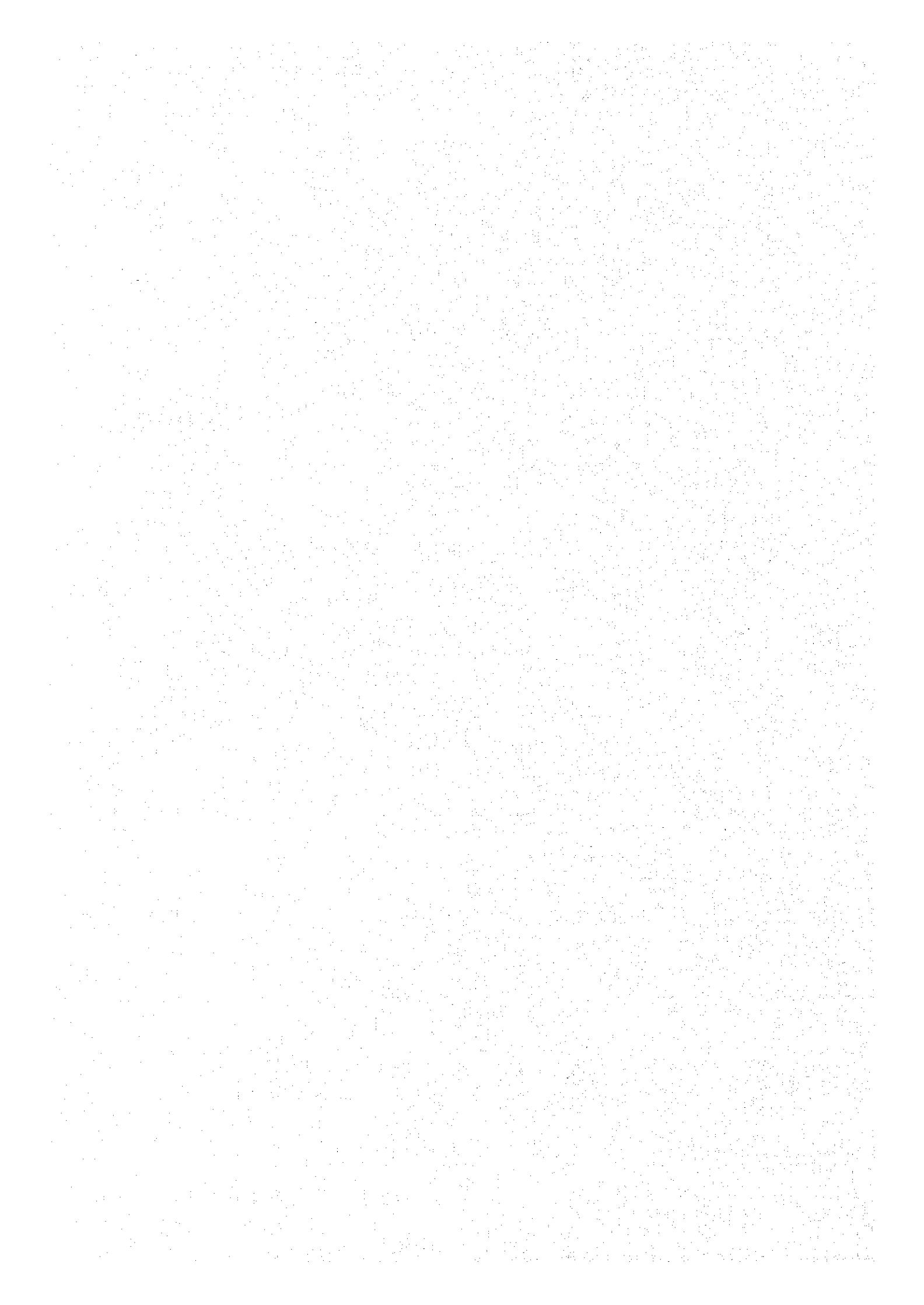
Table 4.38 Present Status of Swamp Irrigation Scheme (New Construction, Proposed)

Unit : ha

Province	Nos. of Scheme	Area functional						Area not yet functional						Total Area											
		Agriculture			Fish Pond			Agriculture			Fish Pond			Agriculture			Fish Pond								
		Paddy	Upland	Others	Garden	Fish Pond	Total	Paddy	Upland	Others	Garden	Fish Pond	Total	Paddy	Upland	Others	Garden	Fish Pond	Total						
11 D.I.Aceh	6	0	0	0	0	0	0	3,200	3,900	0	13,000	0	0	0	13,000	5,900	3,200	3,900	0	13,000	0	0	0	13,000	
12 Sumatera Utara	9	0	0	0	0	0	0	0	18,349	50	33,068	62,425	50	33,068	29,307	9,450	1,508	18,349	50	33,068	50	33,068	62,425	62,425	
13 Sumatera Barat	2	0	0	0	0	0	0	0	0	0	5,350	5,350	0	5,350	5,350	5,350	0	0	0	0	0	0	5,350	5,350	
14 Riau	1	200	0	10,700	10,900	0	0	0	0	0	0	10,900	0	0	200	0	200	0	0	0	0	0	10,700	10,900	
15 Jambi	2	0	0	0	0	0	0	0	112	0	489	489	0	489	377	377	0	112	0	0	0	0	489	489	
16 Sumatera Selatan	1	0	0	0	0	0	0	0	0	0	440	440	0	440	200	200	240	0	25	465	0	25	465	465	
17 Bengkulu	3	0	0	0	0	0	0	0	35	0	2,235	3,500	35	1,265	1,650	550	550	35	0	1,265	35	1,265	3,500	3,500	
18 Lampung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sumatera	24	200	0	10,700	10,900	0	0	0	22,396	50	34,358	85,229	50	34,358	50,821	22,927	5,498	22,396	50	34,358	51,021	22,927	5,698	22,396	96,129
31 D.K.I.Jakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 Jawa Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 Jawa Tengah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 D.I.Jogyakarta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 Jawa Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Bali	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 Nusa Tenggara Barat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53 Nusa Tenggara Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 Timor Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bali & Nusa Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Kalimantan Barat	1	0	0	0	0	0	0	0	0	0	4,725	4,725	0	4,725	4,725	4,725	0	0	0	0	0	0	0	0	0
62 Kalimantan Tengah	1	0	0	0	0	0	0	0	175	0	1,000	1,000	175	0	600	600	225	175	0	0	0	0	888	5,613	
63 Kalimantan Selatan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	
64 Kalimantan Timur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kalimantan	2	0	0	0	0	0	0	0	175	0	5,725	5,725	175	0	5,325	5,325	225	175	0	0	0	0	888	6,613	
71 Sulawesi Utara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72 Sulawesi Tengah	5	0	0	0	322	0	322	0	0	0	678	678	0	678	0	0	0	0	322	0	0	0	678	3,000	
73 Sulawesi Selatan	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32,600	
74 Sulawesi Tenggara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulawesi	23	0	0	0	322	0	322	0	0	0	678	678	0	678	0	0	0	0	322	0	0	0	678	35,600	
81 Maluku	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82 Irian Jaya	3	20,000	0	0	0	0	20,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44,200
Maluku & Irian Jaya	3	20,000	0	0	0	0	20,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44,200
Indonesia	52	20,200	0	200	31,222	32,222	56,546	28,252	5,723	22,571	50	35,036	91,632	100,946	52,452	5,923	22,571	372	46,624	182,542	182,542	182,542	182,542	182,542	182,542

Source : Result of Inventory Survey Conducted by JICA/FIDP Team

Figures



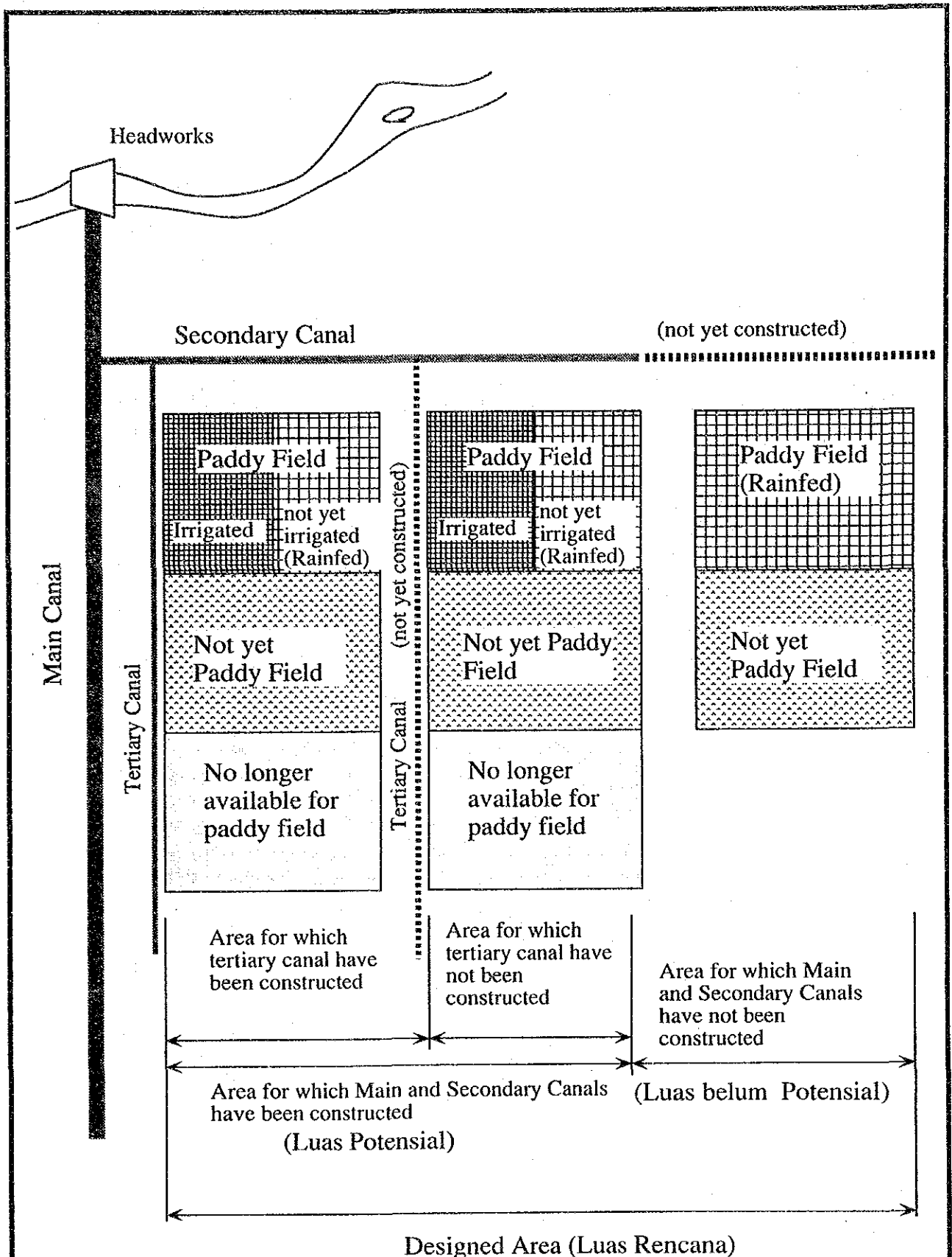


Figure 2.1 Definition of Area in PU Irrigation Scheme

MINISTRY OF PUBLIC WORKS
FORMULATION OF IRRIGATION DEVELOPMENT PROGRAM
JAPAN INTERNATIONAL COOPERATION AGENCY