社会開発協力部報告書

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THE ROCAL ROADS SEPTORIE WORKS STOP

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W 8 REPUBLIK INDONESIA DEPARTEMEN PEKERJAAN UMUM DIREKTORAT JENDERAL BINA MARGA

FINAL REPORT

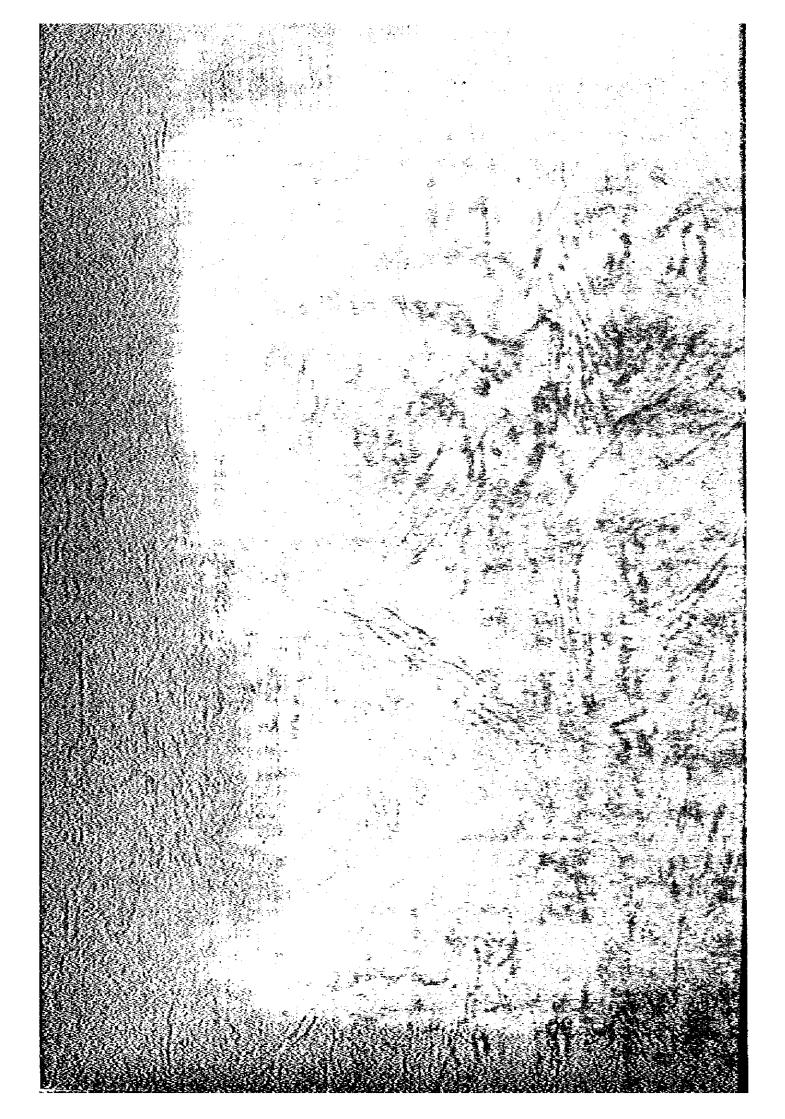
ON THE LOCAL ROADS SUPPORT WORKS STUDY IN SEVEN PROVINCES

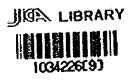
APPENDIXES

AUGUST, 1980

JAPAN, INTERNATIONAL COOPERATION AGENCY TOKYO, **GAPAN**

> S D F NQ = 102





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REPUBLIK INDONESIA DEPARTEMEN PEKERJAAN UMUM DIREKTORAT JENDERAL BINA MARGA

FINAL REPORT ON THE LOCAL ROADS SUPPORT WORKS STUDY IN SEVEN PROVINCES

APPENDIXES

AUGUST, 1980



JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO, JAPAN

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APPENDIX A. TERMS OF REPERENCE FOR LOCAL ROADS SUPPORT WORKS STUDY

(Å)

TERMS OF REFERENCE

FOR

LOCAL ROADS SUPPORT WORKS STUDY

1. INTRODUCTION

1.1. In supporting the development of a good network of the national and regional roads, it is imperative to have a balanced development in the all of the sub-system, e.g. arterial, collector and local roads.

Roughly, local roads are referred to the local and Kabupaten's roads which are administrated by Kabuapten's Public Works (so called PUK).

- 1.2. The total length of all Kabupaten's roads in Indonesia is approxi mately 63% of the road network. And some of local roads, about 30,000 kms are going to be constructed by the transmigration projects
 within the 3rd Pelita period.
- 1.3. It has been well known, that the role of local roads is critical in terms of the distribution of development, which is followed by the distribution of income. The capacity or availability of adequate local roads will give direct affects in the regional production, employment and income growth, which bring distributional effects on themselves.
- 1.4. Covernment of Indonesia c.q. Directorate General of Highways is going to carry out the studies in 7 Provinces, namely, Riau, South Sumatera, Lampung, East Nusa Tenggara, North Sulawesi, South Sulawesi and South East Sulawesi.
- 1.5. The studies must be carried out by the study team composed of the Bina Marga staff and Expatriate Staff.

2. OBJECTIVES

2.1. Primary objective of the study is to establish the Local Roads Support Works Implementation Program and to prepare a program of assistance under which the road support work's capability of the

X-1

Kabupaten, together with <u>local contracting</u> industries will be appropriate for the execution of a preferred program of road support works.

- 2.2. To meet the above mentioned primary objective, the urgent objectives are to be as follows:
 - Carry out the criteria of the selection of roads and classifi cation of support works;
 - (2) Make the list of equipments required for the support works;
 - (3) Recommend the organization of operation and maintenance of equipments; and
 - (4) Cost estimate and annual disbursement schedule.
- 2.3. Carrying out the report which consists of the following skeleton; and this report will be submitted to the Overseas Economic Cooperation Fund, Japan from the Government of Indonesia as a back up report for the required loan from OECF;
 - (1) Introduction
 - (2) Background of the Program
 - (a) Present status of Road Sector in Indonesia
 - (b) Road Improvement Plan in third 5-year plan
 - (c) Overall Program for Local Road Support
 - (3) General description of the Program
 - (a) Purpose of the Program
 - (b) Outline of the Program
 - (c) Criteria for selection of proposed Kabupaten (with backgroun Data)

A-2

- (4) Estimated cost and Financial Plan
 - (a) Required Equipment & Materials
 - (b) Cost Estimates
 - (c) Annual fund Requirement
 - (d) Plan for Financing
 - (i) OECF Loan
 - (ii) Local Budget
- (5) Plans for Program implementation & Maintenance
 - (a) Executing Agency
 - (b) Method and Schedule of Procurement
 - (c) Method and Schedule of Road Support Works
 - (d) Organization for operation & maintenance of Equipment
 - (e) Implementation Schedule
- (6) Effect of the Equipment Supply
- 3. SCOPE OF WORK

The Consultant/Study Team's scope of work shall cover the following items but not necessarily be limited to them:

- 3.1. Economic and Road Inventory Studies:
 - (1) Review and Assessment of the Regional Economic Activities
 - (2) Review and Assessment of the Present Level of Traffic
 - (3) Field Reconnaissance and Assessment of Surface Conditions and Bridge Structures
- 3.2. Present Maintenance Studies:
 - Review and Assessment of Present Maintenance Level (Operation, Organization, Policy);

- (2) Review and Assessment of Present Maintenance Capabilities;
 - (a) Planning and Design
 - (b) Organization
 - (c) Equipment (including workshop and spare parts)
 - (d) Materials
 - (e) Budgetting etc.
- (3) Availability of Maintenance Resources;
 - (a) Finance
 - (b) Manpower (including Planning and Design)
 - (c) Equipment (including Spare Parts)
 - (d) Facility (including Workshops)
- 3.3. Estimate of Support Work Requirements;
 - (1) Criteria for selection of local roads
 - (2) Support work operations
 - (3) Equipment required
 - (4) Organization and Administration
- 3.4. Cost Estimate and Plans for Implementation:
 - (1) Cost estimate of Equipment required;
 - (2) Cost estimate of Maintenance and Administration of execution agancies;
 - (3) Method and schedule of procurement;
 - (4) Implementation Program

Above stated scope of work shall be executed urgently by the Team. And moreover, additional following items shall be covered by the further study;

- 3.5. Determination of Support Work Policy and Standard:
 - Management, administration and operation system of the local roads support works;
 - (2) Budget allocation criteria for the government of the central, the provincial and the Kabupaten.

4. STUDY TEAM AND SCHEDULE

4.1. The members of the study team's and estimates duration of assignment are shown below:

	Nonth
Highway and Bridge Construction Specialist (Consultant)	3.0
Coordinate Engineer (Bina Narga)	5.0
Transport Planner (Consultant)	2.0
Construction Equipment Specialist (Consultant)	3.0
Traffic Engineer (Bina Harga)	3.0
Highway Engineer (Bina Harga)	4.0
Materials Engineer (Bina Marga)	3.0
Assistant Engineer (Bina Marga)	3.0
Assistant Engineer (Bina Harga)	3.0
Assistant Engineer (Consultant)	1.0

4.2. The staff schedule is shown in the attached table "A-1". And the final report shall be submitted at the end of March 1980 with 10 copies.

N.Y./

(Revised: 16/11/79)

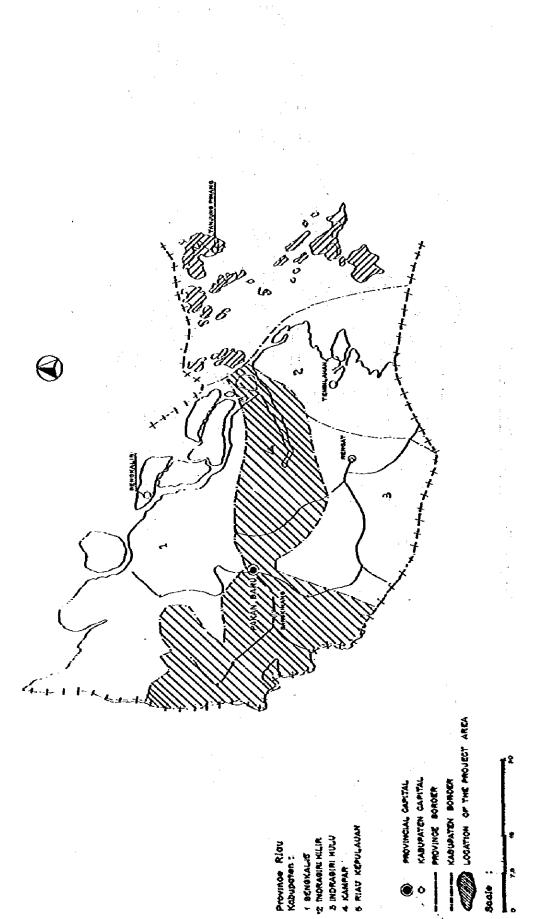
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APPENDIX B-1 MAPS OF PROVINCES AND KABUPATENS

(B1)

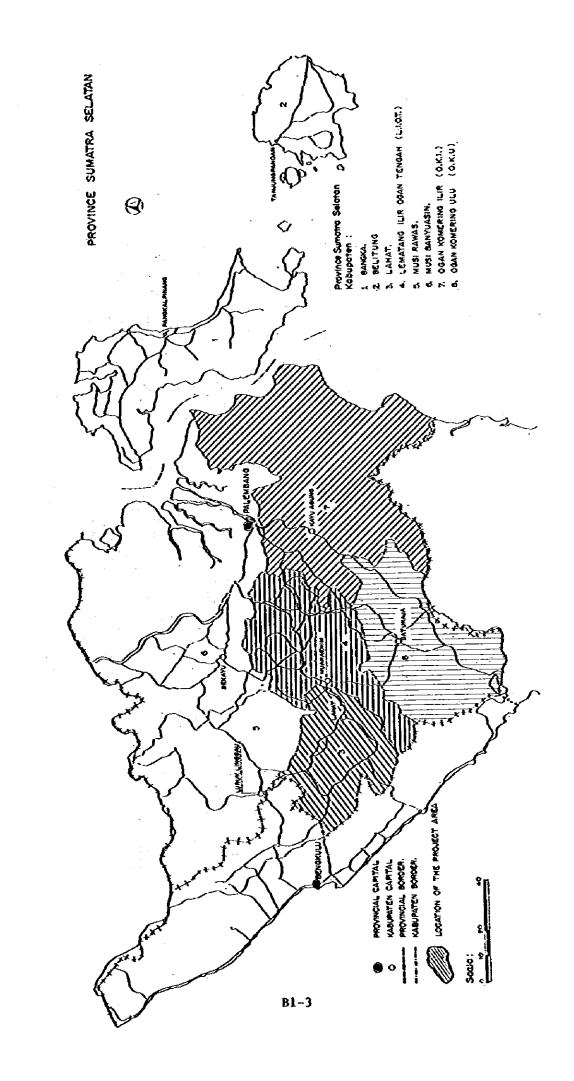


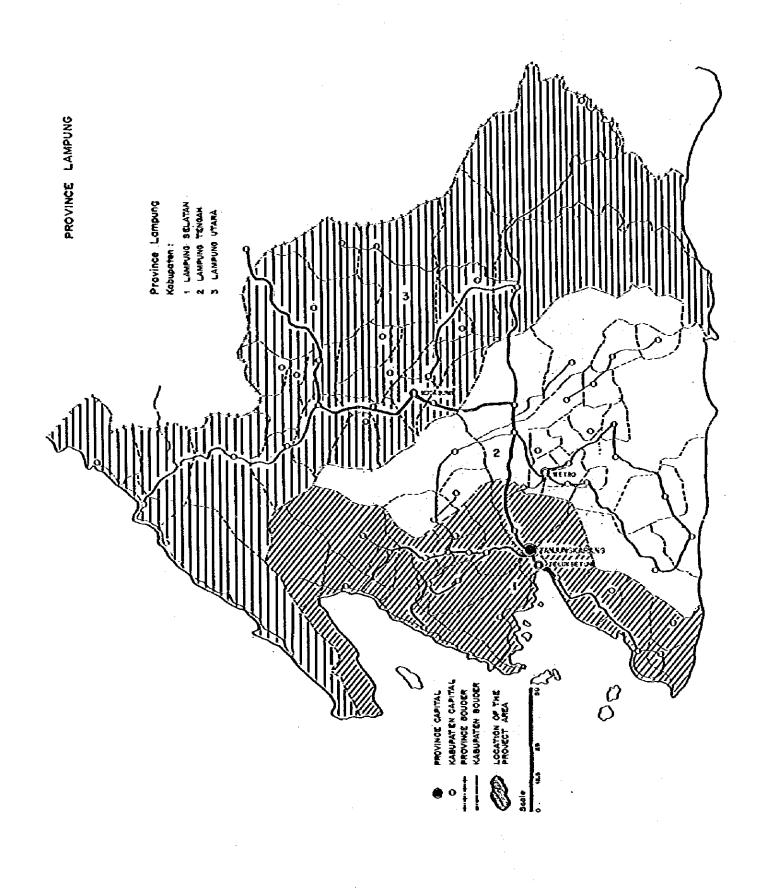




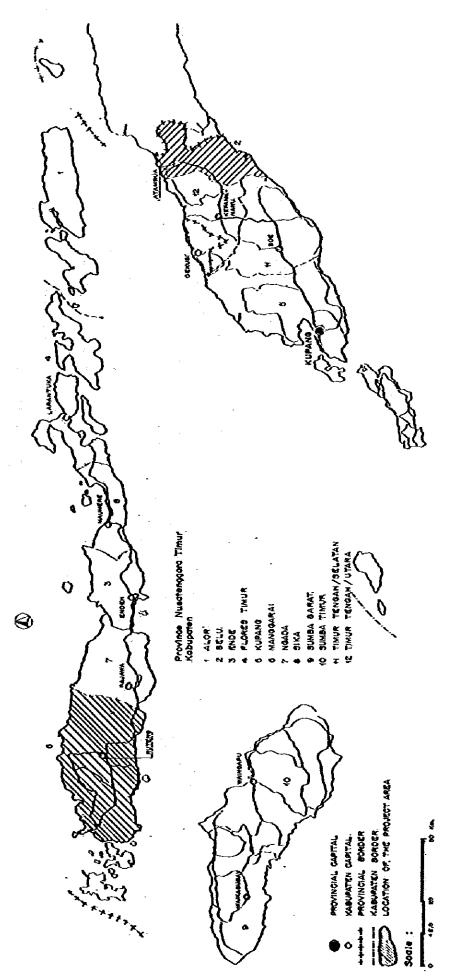
PROVINCE RIAU

B1-2



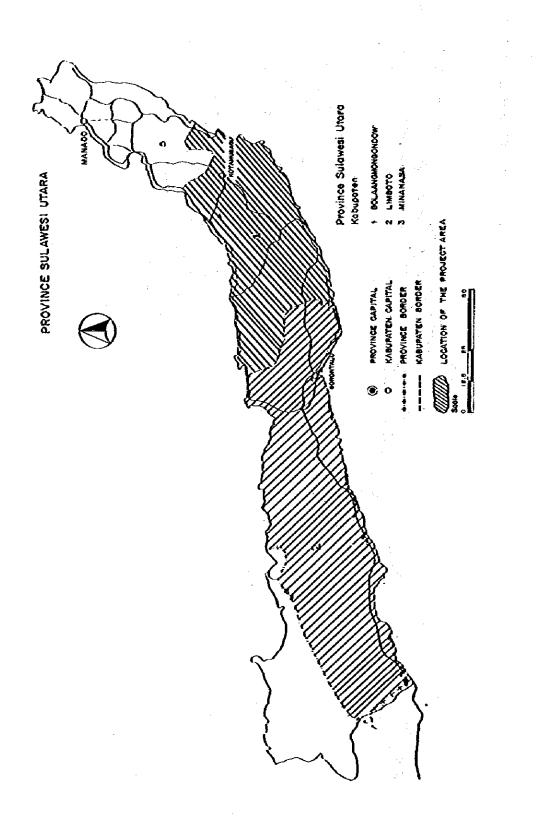


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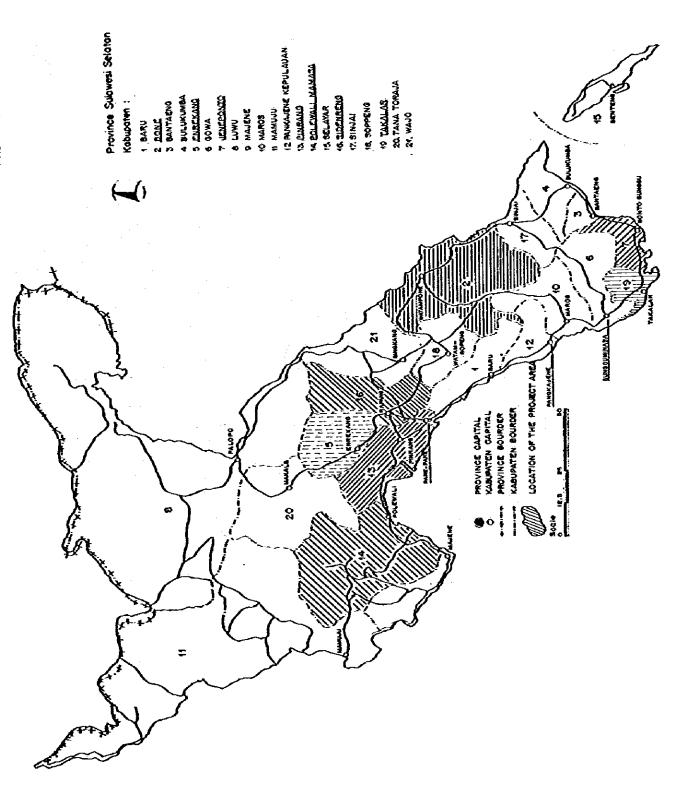


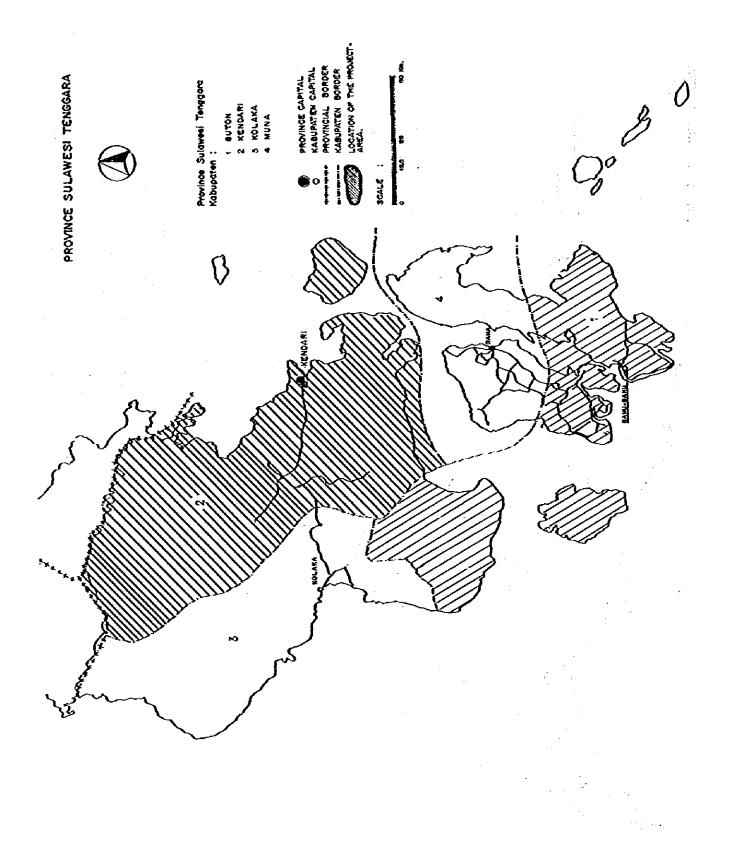
PROVINCE NUSATENGGARRA TIMUR

B1-5









APPENDIX B-2 SOCIAL AND ECONOMIC DATA OF EACH PROVINCES

AND KABPATENS IN THE PROJECT AREA

(82)

DATA PROVINCE RIAU

Annual Growth Rate (I) ANTA	۵۲.۵
1978 Annual Gro	2,037,265
1971	7.041.074

NOTTA TUTAO 4

No..of Dere

No.of Kedamatan

No.of Kabupaten

Area (Km²)

.

873

\$

ø

94.561.60

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	Wer fleid for Ride	Dry Land	VILLAKS	Pores C	Othera	Total
¥.	109,971	335,841	•	6,600,000	2,190,348	9,456,160
-	1.2	5.9		69.B	23.1	100

POOD CROPS PRODUCTION

CASH CROPS. PRODUCTION

Ma Ton/Ha Ton Ma Ton/Ha Ton Na Ton/Ha Ton Na Ton/Ha Ton Na Ton/Ma	40 48,644 48,704	707 202,226	Ча			_		1972			1747	
Ma Ton/Ha Ton/Ha	40 88,644 48,704 6,349	202.226	a T				A M	Ton/Ma	Ton	1 ka	Ton/Na	Ton
B8.644 2.28 202.226 109.971 2.13 243.700 Rubber 256.517 0.23 61.145 242.124 0.24 48.704 1.04 31.001 50.684 1.33 75,473 Coconut 139,428 0.60 84,018 179,182 0.35 45.704 0.74 42.804 7,131 10.03 71,753 Coconut 139,428 0.60 84,018 179,182 0.35 6.379 0.65 5,354 7,153 Coconut 139,428 0.60 84,018 179,182 0.35 6.379 0.65 5,124 10.03 71,753 Coconut 1,250 0.11 201 2,249 0.13 1.362 5.63 8,646 2,744 0.351 75,476 0.11 201 2,249 0.13 1.362 5.63 8,646 2,744 0.39 17,351 7548 20 0.30 1.362 5.03 9,646 0.11 201 2,244	88, 644 48, 704 6, 349	202,225		LOT / NA	13							: !
06.644 2.25 203.226 1.001 59.684 1.130 75,475 Coconut 139,628 0.60 A4,016 179,182 0.55 45.704 1.04 31.001 59.684 1.130 75,475 Coconut 139,628 0.60 A4,016 179,182 0.55 6.379 0.74 42.804 7,151 10.00 71,753 Coconut 139,628 0.10 4,643 0.09 6.379 0.65 5,354 12.666 0.92 11,717 Cocffee 1,776 0.11 201 2,249 0.13 1.362 5,65 8,686 2.744 0.351 79,956 17,351 79996 1 201 2,249 0.13 1.362 5,65 8,686 2.744 0.39 17,351 79996 1.37 0.30 4 20 2,249 0.130 1.362 5,65 8,686 2.744 0.39 17,353 79996 1.07 244 204 2.00 903 0.72 093 2.344 0.39 1,393 348	88, 644 48, 704 6, 349	202, 220			006 176	Rubber	256.517	ູ ເ	61,145	262,125	0.24	63.610
45,704 1.04 51.001 50.664 1.132 75,473 Cooqnut 119,828 0.00 7.1763 12.001 71.763 0.03 6,379 6,74 42,804 7,151 10.03 71.763 Clove 1,250 0.13 188 4,643 0.09 6,379 0.65 5,554 12,666 0,92 11,717 Coffee 1,776 0.11 201 2,249 0.13 1,162 5.65 8,666 2,744 6,39 17,551 7 7 20 2,249 0.13 1,162 5.65 8,666 2,744 6,39 17,551 7 7 1 0.1 201 2,249 0.13 1,162 5.65 8,666 2,744 0.351 7 12 0.30 4 20 0.30 1,162 5.65 8,666 2,744 0.351 7 20 2,14 0.10 1,042 2,053 1,7551 7 7 1 0.3 2,24 1.00 1,242 6,39 1,7551 7 1,07 244 294 1.00 963 0.722 693 2,341 0.393 1,3551 7	48,704		-						010 10	110 110	2	05.433
0.349 6.74 42.806 7.151 10.03 71.763 Clove 1,250 0.13 188 4,643 0.09 6.379 0.65 5,354 12.666 0.92 11,717 Coffee 1,776 0.11 201 2,249 0.13 1.362 5,65 5,554 0.354 0.354 0.354 0.30 4 20 2,249 0.13 1.362 5,65 5,654 2,744 0.39 17,351 Pepper 13 0.30 4 20 2,249 0.13 1.362 5,65 5,65 5,646 2,744 0.39 17,351 Pepper 13 0.30 4 20 1.00 1.362 0.72 693 2,341 0.39 1,393 3ugar Cane 227 1.07 244 294 1.00	6,349			27.1	75.473	Codenut	129,928	0.0	010,90	*0***./*		
0.349 0.74 42.804 7,131 10.03 72.703 5404 0.13 6.379 0.85 5,334 12.686 0.92 11,717 Coffee 1,776 0.11 201 2,249 0.13 1.362 5,65 5,565 5,565 0.39 17,551 70per 13 0.30 4 20 0.30 1.362 5,65 8,686 2.744 0.39 17,551 70per 13 0.30 4 20 0.30 903 0.72 093 2.744 0.39 1,393 5ugar Cane 227 1.07 244 294 1.00 903 0.72 039 2.341 0.39 1,393 5ugar Cane 227 1.07 244 294 1.00	6.349						, 360		1 A.M.	4.643		ğ
6.379 0.63 5.334 12.666 0.92 11.717 Coffee 1.776 0.11 201 2.249 0.13 1.342 5.63 8,646 2.744 0.39 17.551 Pepper 13 0.30 4 20 0.30 903 0.72 093 2.341 0.59 1.303 1.503 1.07 244 294 1.00				10.03	11,705	CTOVE	PC4 4 4					
6.379 0.63 5.334 12.666 0.92 11.747 Corres 1.70 0.50 4 20 0.30 1.342 5.63 6.646 2.744 6.39 17.331 7.931 7.999 1.07 244 294 1.00 903 0.72 693 2.341 0.39 1.393 5ugar Cana 227 1.07 244 294 1.00							1 774		201	2,249		ğ
1.342 5.65 8,646 2.744 6.39 17,551 Pepper 13 0.30 4 20 0.30 963 0.72 693 2.341 0.39 1.593 Sugar Cana 227 1.07 244 294 1.00	6.279			0,92	11,117	201103			-			•
1.342 5.65 8,000 2.744 0.39 1.393 5.85 8.00 2.744 294 1.00					13 461	Basered .	13	0.30	-1	2		
965 0.72 693 2.341 0.59 1.393 Sugar Cana 227 1.07 244 294 1.00	1. 342						•					200
963 0.72 693 2.341 0.39 1.395	_					Sugar Cane	227	1.07	244	194		
963 0.72 095 2.341 0.99	SOVE Dean -			1								
	963			60.0	CACT			-				
	-											
1	and a											

RECTORAL INCOME AT 1949 CONSTANT FRICES

YOOD MALANCH

Total Allionky

Ochera

Tranaport 6 Communication

63,522 014,88

29,232 42,697

5,406 10,280

	Consumption (Ton)	Ke per capica"	Production (Ten)		Agriculture	Minning 6 Quarrying
Riae	227.479	120.0	194,060			
CABRAYS - BURGE Pocato	118,117	62.2	415,95	7.41	107 47	
Corn	27,915	14.7	11.717	1976	202.22	100'6

* Source: National Socio Roonomic Survey 1976

	KABUFATEN KAN		1977
Recanatan	Ares (122)	Population	Population Density (Ka ²
Bangkinang	\$47.39	38,928	n.i .
Rangar	1,003.53	68,489	63.2
Slak Bolu	4,150.87	51,313	12.4
Kaupar Kiri	1,961.41	21,583	11.0
Langgan	3,069.17	7,825	2.5
Base t	3,485.21	9,236	2.6
Pangkalan Kuras	1,724.75	9,214	5.3
Koola Keapar	3,707.77	19,305	5.2
Tepeouban	518.82	7,191	7.8
XIII Koto Kanpar	1,152.90	15,414	8.8
Rokan IV Koto	1,116.31	9,924	8.9
Kantah	1,029.60	34,592	33.5
Tađua	1,016.57	9,131	9.0
Kaato Darusselaa	1,179.49	6,046	5.1
Teabosai	1,629.02	9,393	5.8
		1	
			ļ
Total	28,291.86	317,494	11.2

	KABUPATEN	EP. STAD	
Fecazatan	Azea (Ka2)	Population	1977 Equilation Density (ka ²
Bintan Utara	501.75	15,693	30.1
Bintaa Selatan	632.08	71,459	113.1
Biotan Timur	521.30	25,547	49.0
Lingga	892.73	19,065	21.4
\$ebayaog	397,49	17,168	30.6
Śiegkap	808.02	28,878	35.7
Kundur	358.39	43,473	121.3
Kariwaa	221.55	40,011	189.6
Kora	260.65	15,503	59.5
Jezaja	260.65	6,412	25.6
Tazbetas	169.42	4,064	24.0
Sistan	267.17	21,027	78.7
NIČAI	39.10	4,278	109.4
Batan	612.53	30,958	59.5
Serasan	235,58	6,124	26.1
Booguren Barat	938.34	11,805	12.6
Bungurah Timur	\$83.95	9,700	9.9
Total	8,033.70	365,556	45.1

ROAD FEIVORE

		RAD FEIVO	<u>8.K</u>		19
Tabupatéa	Katiocal Read (km)	Froviscial Road (Ka)	Kabupaten Road (Ka)	Others (In)	Total (K.m.)
Rođja Pekacdara	5		4		
Kangar	95	356	813		1,264
Indragiri Bula		335			
Indragtet Ettir		85			
tespielts		225			1
Kepulausa kisu		_	473		473
				-	
				·	
tetal (frovince)	100	1,005	1.613	1	2,244

PATEOROLOGY

·										at res	ascate is	···
X eath	Jao.	Feb.	Xar.	Åpr.	Nay.	Joa.	, Iң	fag.	Sep	Oct.	For.	Cec.
I≈27. (°€)	31.4,21.5	31.4,21.3	32.3,22.0	33.0,22.3	33.6,22.2	33.5,21,6	32.5,21.3	31.8,21.1	33.0,21.1	31.9,21.9	32.1,22.2	32.1,22.2
triafall (m)	91	343	340	168	125	178	142	194	252	245	420	300
Baldity (1)					·		ļ	1	ĺ			

at Lekasbarn 1977

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DATA KAN. KAMPAK

NOLLVIA

1971	¥791	Annual Growth Race (X)
258,692	329.36V	3.96

AXXA

Vres (Kin-7	Kecomatan	Dena	Dered CV (Km2)
28.291.86	 51	123	12.0

IAND DUE

	for Rice	Dry Land	ATTTK&	rotenu	ocners	
4	14,973	120.749	•	•	•	2,529,140
*	0.5	C. 4	•	•	ŧ	100

NOITIONONA SAONI DOOL

		1072			1977	
1	41	Ton/Na	Ton	ĂÅ	Ton/Ha	Ton
Wet Paddy			•	C79, 41	2.36	35,378
Dry Faddy	•	•	•	36,415	1.31	47,757
Cassava + Sveat Potato	٠	ı	۰	1,954	16.7	14,281
Maise + Paanuc + Soya bean	٠	ı	•	3,515	0.76	2.66

CANH CROPS PRODUCTION

		1972			1977	
	¥a Ka	Ton/Na	Ton	4a H	Ton/Ha	Ton
cottee	•	•	•	6.57	91.9	123
Tepper	•	۲	•	17.5	0.29	5.2
Clove	•	•	•	620	10 .0	4
Rubber	•	t	F	60,812	0.28	17,356
Coconut	•	ı		6,150	0.64	3,967
Sugar Cane	•	ı	•	233	1.17	274

DATA KAN. OFP. RIAD

NOLIVIADO

 1971
 1978
 Annuel Grouth Rate (Z)

 331,136
 379,235
 1.96

ANTA A

Population Denaity (Km2)	46.8
No.of Dena	471
No.01 Kecamatan	17
Area (Km ²)	8.099.70

LAND USK

	Wet field For Rice	Dry Land	VILLAKA	Porest	Othere	10641
ā	370	96.975	8	*	ı	809,970
×	0.0	12.0	1	3	ı	501

POOD CRONS . NODUCITION

		1972			111	
	MA	Ton/Na	Ton	5	Ton/HA	Ton
Wat Paddy	375	0.94	352, 5-	370	3.68	1.362
Dry Paddy	40.3	0.81	37.67	205	0.69	141.6
Canava + Swaat Potato	1.700	7.41	12,600	3,612	6.12	22,095
Maise + Peanur + Soya bean	47.5	0.79	37.79	168.5	0.93	165.6

CASH CHOPS - PRODUCTION

		1072			1977	
	\$	Ton/Na	Ton	5	Ton/HA	Ton
coffee	P	ſ	•	*	1	1
Pepper	•	•	1	٠	•	
Clove	788.5	•	4	2,770	0.11	317
Rebber	•	•	•	58,488	0.22	12,920
Coconur	21,230	•	1	30,175	0.41	12.260
Sugar Cane	•	3		•	•	•

KANUPATEN KAMPAR

VENICLE RECISTION

Vahicle Type	19	19	Crowth Hate
Passenger Car			
truek			
Thus			
Metor Cycle			
Non Mocor Vehicle			
Total			-

PRICATION & MIDICAL CANE

Kacamatan	Elemencery School (Clamm Room)	Jundor High School (Clase Room)	Hospital	Xealch Center	Public Priježánác
Bangkinang					
Kampar				-	
Siak Mulu					
Kampar Kiri		_			
Langgam					
מחחות				_	
Pangkalan Kuraa					_
Kuala Kampar					
Kepenuhan					
XIII Koto Kampar					-
Kokan IV Koto					
Kambah					
Tandun					
Kunto Deruseilen					
Tembusaf					
					-
Total	(0021) 792	(101) 61	4	15	0
-					

VERTCLA. REGINTRATION

KABUPATEN KEP. RIAD

Venscle Type 19 19 Growth Mater Phasemyer Car Truck Bus Mo tor Gyole Non Motor Venscle Total

MUCATION & MIDICAL CART

	Ulemencary.	Juntor Migh		Needer	. 1.1.1
Kecama tati	CLARE ROOM)	School (Clau Room)	Nonpical	Center	Policlinic
Bincan Ucara	-				
Bincan Selacan					
Bincan Timur					
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					
Senayang					
Strikkap					•
Kundur					
Karimun					
More			_		
Jemaja					
Tambelan					
Slatan					
Midel					
Decem					
Setanan			. :		
Dunguran Barat					
Junkt nerugund					
Total	272 (1657)	36 (202)	4	- 41	77

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NATA PROVINCE SUMATEA SELATAN

	2.92	4,135,088	3. 4.79. 216
21 21 21	Annual Growth Nate < X >	1977	161

No. of

No. of Kedematen

No. of Kabupaten

Attes (Km ²)

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193

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109 ,254

TAND DIST

	Wet field Dr for ride	Dry Land	Village	Yoran	0there	Total
, A	262,522	719,802	38,041	5,475,941	4,429,094	10,925,400
ы	2.4	\$*\$	710	50.1	40.5	700

TOOD CROPS TRADUCTION

CASH CROPS PRODUCTION

		1972			1976				1975			1978	
	4	Ha Kon/Ha	Ton	1	NA Ton/Ma	Hor		Ŧ	Ton/He	Ton.	Ą	Ton/Ma	Ton
										141 086	474 410	0.32	
Wet Paddy * 239,036	239,036	2.77	663.251	262.322	7.81	2.81 739,314	Kubber				A 17 17 1		
And Poll + What were	125.246	1.27	159.145	125.982	1.33	181.566	Coconut			10,916	33.229		11 537
and and			141 141	200 40		175, 510	Clove			10	16 9.509	0.08	7
CARRAVA	064 07	57 77	0044407	14154									010 11
Mataa	6.384	0.77	4,933	060.0		4.953	Coffee			24412	82,000		1 20 22
Sweet Potato	4.723	4.71	22,256 7.137	761.7	4.73	33.774	Peppar			12,844	15,312		12,824
Sova been			·				Sugar cane			•	2	•	1
Peanuc + Kreen small	7.769	0.76	5,876	2.196	1.17	6.485			-				

* Paddy X 95X x 66X = Mdee

POOP RALANCE

	Consumption (Ton)	Consumption Kg Per Capita 3	Production (Ton)		Akriculture	Mining & Quarrying	<u> </u>
Ríce	494,210	120.0	560,200	1075	133.425.775	045.295,141 152.299	
Casava + Sveet Potato	257,200	62.2	209,293	1977	140.599,152	140.399.152 131.823.701	
Corn	60*790	14.7	4,955				

REGIONAL ONCOME AT 1975 CONSTANT PRICKS

Auriculture Mining & Transport 6 Othere Total Rps. Auriculture Quarrying Communication Othere Zhousand Rps. 1973 133.435.775 [41.595.390 25.163.515 323.869.399 724.064.279	Í	2
Aurisculeura Mining 4 Co Aurisculeura Quarrying Co 133,433,775 [141,595,390	Total Thousand R	724,064,2
Aurisculeura Mining 4 Co Aurisculeura Quarrying Co 133,433,775 [141,595,390		323,869,399
	Transport 6 Communication	25,163,515
	Mining 4 Quarrying	141,595,390
1973	Aursculeure	277,254,551
		1973

32,365,951 479.843.371 784.832.175

~

NOTIVITION

FARTFALES O.K.1 1978

RABITATES LAPAT 1978

Fecanatan .	Area (ra ²)	Population	Population Dessity (/Kx2)	Kecazatas	Area (Ka ²)	Pepulation	Pepelation Density (JEA2
Tape Águng	1,049	46,120	41.0	Labat	912	55,355	60.7
Musra Keseg	610	29,259	48.0	Tenjurg Sakti	220	25,617	111.9
Tg. Luber	545	47,662	87.5	Pegar Alam	150	70,313	93.8
Tedameren	1,624	31,022	19.1	Heera Finang	570	41,459	72.7
<u>Kesujt</u>	3,685	11,165	3.0	Teadopo	149	33,138	235.7
Tg. Betu	900	52,126	57.9	PD Tepung / Ulu Musi	837	38,792	45.3
Tg. Raja	107	<u>9</u> 2,422	845.1	Tebiog Tiozzi	749	42,811	57.9
Sirah Pulan Padang	571	62,931	110.3	Jacai	323	39,674	122.8
Indralaya	572	52,126	91.3	Rt. Agong / Tg.Tebak	249	28,501	116.5
Pepulutan	332	56,479	117.9	Pelas Picass	2,480	24,816	10.0
Tulung Selepen	9,953	35,858	3.7	Merapi	405	26,561	65.4
Feagergan	1,659	34,824	21.0	Kikin / Bunga Mas	2,400	32,671	13.6
Total	21,658	551,015	25.4	Total	10,028	\$58,697	45.7
			ROAD	<u>VE IVAR</u>			
							1978

.

					1978
Kabupatéa	Xational Road (Ks)	Provincial Road (Ex)	Kabupaten Kodd (Ka)	Others (Ka)	Total (53)
t. Fab. Misi Banyuasin	1		338.0		
2. Kab. Ogia Komering Ilir	35.5	159.5	393.0		583.0
3. Fab. Cyan Konericy Balu	i		538.9		
4. Kab. Labat		1	201.5		
5. Reb. Musi Lavas			\$ 8.5		· ·
6. Keb. Bezeka			573.7		
7. Kab. Kelitopg			333.7		
8. F25 Lf3t			217.5		-
					1
			:		
Tetal (Freatice)	662.5	2,634.5	2,745.4	-	6.045.4

MATEOSOLOCY

-

				-	MAT	its that			- ·	at fales!	ang 1977	
Seath	Jan.	Feb.	Kar -	Apr-	Xay.	Jua-	J31.	A=3-	Sep-	œt-	Serv	Fec.
Teng. (°C) Balafall (19) Banality (1)	215	275	245	352	153	163	149	145	83	93	385	159

DATA KAN. Q.K.T

. . . .

NULLVIAGE

9261	1978	Annual Growth Race (%)
520,115	510.125	2.93

WV

Population	23.4
No.of Desa	916
No.of Kecamatan No.of Dage	12
Area (Km ²)	21,658

TAND UNK

····		-
TOCAL	2,165.800	3
Óchers		
Potest		
VILLAGO		
Dry Land		
Mar "1914	71.007	6.6
	\$	н

NORD CROKE PRODUCTION

		1977			1978	
	4	Ton/Ha	Ton	ž	Ton/Na.	tor
War Paddy	61.544	8.8	123,228	11.007	2.21	157,114
bry Paddy	12,521	1.05	941°C1	21,954	1.21	26.616
Casadva +	3,116	4.32	14.082	7,328	4.65	34,065
Maine + Peanut	1.645	0.05	1.195	3,670	0.39	2.160

CAEH CHOP'S PRODUCTION

		1972			1978	
	¥	Ton/Ha	Lon	å	Ton/Ha	Ton
Calles				120	0.23	27
Pannar				,	6	
C) ove				232	•	U
Rubber				CBC 07	95.0	18,737
Cosonus				2,282	0.27	618
Sugar Cane				•	•	•

DATA KAN. LANAT

NOTTATONO

1976	1978	Annual Growth Rate (I)
433,087	458,697	2.84
1470	-	

Barrides ¹ 89000,29	45.7
No.Of Dana	1
No.of Kanamacan No.of Dasa	22
Ares (Km ²)	10,028

AND UNL

Total	1 002 800		8	
Ochere				
Yorest				
Village				
Dey Land				
Weit fiald	TUE LANG	21.0K3		2.1
			2	*

FOOD CHOTE PHOPUCKTON

		1972			1979	
	ž	Ton/Wa	uor	ţ.	Ton/He	nor
Wet Paddy	18,942	3.92	73,980	21,083	76.4	92,170
Dry Paddy	15,170	2.10	38,157	13.678	2.23	30,451
Cassaya + Sweet Potato	1.022	6.03	9.224	866	5.79	5,780
Matma + Peenuc + Boya bean	1,900	0,09	1,319	2,009	0.83	2.511

CASH CHOPS PHODUCTION

		1972			1978	
	ž	Ton/He	uot	, Ka	Ton/He	not
Coffee				22,302		
Pepper						
Clova						
Rubber						
Coconut						
Sugar Cane						

KABUPATEN O.K.I

VEHICLE REGISTRATION

.

Vebicle Type	19	19	Crowth Rate (Z annual)
Passenger Car			· .
Fruck			
us			
fotor Cycle			
on Xotor Vehicle			
Total			

EDUCATION & NEDICAL CARE

Kecazatan	Elementary School (Class Room)	Junior High School (Class Rooa)	Hospital	Health Centre	Public Policiinia
Kayu Agung	38 (255)		1	1	
Pedamaran	11 (96)			1	
Tanjung Lubuk	28 (202)			- 1	
Tanjung Raja	58 (411)			1	Ĭ
Inderalaya	28 (200)	-			
Tanjung Batu	38 (245)			1	-
Xesuji	20 (134)			1	
Pesulutan	32 (211)	-	· · · · ·	1	
Muara Kuang	28 (165)			- 1	
Sira Pulu Padang	32 (261)			1	
Paapangan	- 23 (135)			1	
Tig. Selapan	22 (* 134)]	1	
Total	358 (2449)	32 (148)	1	12	· [

· .

A OCAN TENCAH)
С С
CLEMATING
LIOT
NUTRATION
- 5

<u>777 NATANANA ATA</u>

ļ	XBCANATAN	AURA (Xm ²)	NOLLVIDAOA	population Density / Xm ²
4	ăemendo	000	26, 197	29
. 4	Tan'iung Noung	\$50	52,281	ş
	Musta Bhia	475	31,744	62
	Qurund Medand	1,900	41	2
	Talang Ubi	1,050	116,00	40
: 3	Prebumil Sh	2,150	101,064	47
	Celumbang	1.450	70,253	48
		9,575	403,553	42

NOLEVIDADA

NNTE (N) NATE (N)	1.74	POPULATION	42
~		NO OF DESK	ñ
1977	403,553	NO OF KICKWATAN	4
1/61	263,769	 AUEN (Sen ²) N	9.575

	WET PLIELD	ant ma	ATLAGR	rowar	FALIENCO	TOTAL
Ş	205.01	156,933		92,303	698,975	957.500
١.		91		0	5	200

	_	1973		l	1977	
	2	TOWART	NOT	KX	NON/NOL	NOL
War Daddy	16.475	3	6× 9	296,91	2.84	55,127
	AL 640	0,00	31.322	512.00	24	38,448
way racuy		÷.	10.960	-	0.39	17,620
CORRECTE Mail in	\$10		427	925	0.87	809
Peanute + Ment- Potatore	710	\$.30	4,470	367	2,98	2,373
		1401			1191	
	E	TON/NOT	NOL	Ŕ	NEL/NOL	NOL
	101 201	12.0	24.118	24.156 108.963	0.32	35,260
			1.146	0.04	0.33	339
Coconut			01.0			1.75
C. 04.			105 6			3.966
Colfre						
Teppeer	ጽ	0.74	8	â	0,19	•
Bugar Cane						1
Other	021	0.42	8	2	0-53	2-12

VERYCELS INCLUSION NUCLES		¢]	LOIT, NALVADINO
VENCELE	101	72.87	(THOMAN &)
Parsencer Car	977	ħ	9 .6
Truck	675	643	0.0
B	46	561	5.4
Motor Cyale			
Non Motor Cycle	. 97	27	1.6
TOTA	976	957	Q.77

POPULATION 2977 DATA KAN, OKU

TOUCATION & MEDICAL CATO

KECHWEYN	ELEMANTARY SCROOL	JUNION HIGH	WILLIANON	kealtth Center	PUBLIC POLI CLINIC
1. Samando	17	ŝ	*	4	•
pruph prubust.	106	49	*	н	4
3. MUARA ENLM	244	4	4	-	4
4. Curung Megang	212	27	B	А	4
5. Talang Ubi	214	27	•	f E	4
6. Prebunulth	201	ñ	-t	4	v
7. Celumbarg	186	55		4	\$
	1,224	ccc	CI.	9	7

	KECNAVEAN	AUEA (Xm ²)	NOITATUROA	Population Density / Xm ^{2.}
	Kota Beturaja	815	54,750	67
ä	Pengendonen	2,397	575,65	27
	Penínjawan	221,1	27.737	26
4.	Marcapura	502	45, 735	7
'n	Buay Madang	1,060	135,259	ĥ
\$	Melitang	900	93,660	ц т
7.	Canpaka	. 885	79,469	8
8 .	Stripang	200-	719,35	r R
ç	Muara Dua	1,143	48,710	45
9	bunding Agung	2,365	40,206	16
11	MUATAGUA NERAM	876	17,230	5
ä	Pulau Beringin	55	C77.91	39
	JUNLAR	. 200 1	601, 205	55

NORTALIDADA

			-	
ANNOAL CHONTE XATE CHONTE	2+0		NOTIVIDAOA	48
N.			V510 10 ON	
1977	635,198		NO OF RECHARING	ส
1948	494,179	Vinev	AND OM ² 1	13,200

TEN ONV	Van		·	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
	WET FIRED	מוצד אומ	VILLACE	FORMET	ones	WIOI
2	45+634	114.102				1,320,000
	3.46	8.63				700

B2~10

NOTIONOUS BAOND GOOM KAN, PKU

		101			1977	
	¥	VN/NOL	NOT	NV.	TON/MA	NOL
Wat Paddv	31,916		3.36 207,966 45,634	45,634	5.29	3.29 150.114
Dev Paddu	36,094		42,757	27,601	1.05	26,077
CARAVA	5,253		-	3, 620	7.51	20,707
Mailine	1,453	0,59	8	1,907	6.73	1,304
Reat Fotatoes Soyar Bean, Feanut, Greene Email Fea	1,257	1.04	2,316	2,208	1.83	4,377

		1968			1977	
	5	VIL/NOT	NOL	¥2	TON/HA	Ş.
Aubber	46,466	0.49		22,955 41,350 0.36	0.36	14,761
Coconu t	2,627	0.32	040	3,225 0.31	0 31	996
cteve	G	1	•	1.032	0.00	0 30
Colitee	34,936	0.53	10,457	31, 000	0.55	17,624
Pepper	257	0.44	11	595	0.27	601
Bugar Cane						
Others						

KARUPATER OKU

VERICUE RECENTION

ATOXICIE TAVE	7960	1977	(Trunk N)
Dagancer Car	24	çəc	16.6
Truck	400	109	0.6
Due	144	207	10.9
Motor Cycle	•	1	•
Non Motor Vahidle	•	•	*
	602	1,491	10.6

1

REDICATION & MEDICAL CARE

XCC/MATAN	ELEMENTARY SCHOOL	JUNIOR HIGH SCHOOL	WII ABOR	NEXT IN	PUNLIC POLIC CLIMITC
atanına tarihada				7	\$
				-	4
2. Pangandonan				e .	
3. Peninjawan				-	n
4. Martapura				н	-
5. Buay Madang				н	•
				~	n
				А	n
				-	n
				н	n
o. banding Agung		_	_	л	4
11. MLATA KLAAM				н	a
12. Pulau Beringin				-	-
	2,260	447		ង	43

PATA TROVINCE LANTWING

ROTIAND

1977 Annual Growth Rate (2)	3,707.324
1972	2.848.276

TAND USE

AREA

No.of Deas	1.492
No.of Kacamatan	71
No.of Kabupaten	÷
Areas (Km ²)	33,376.50

-	Wet Fish for Rige	tory tand	¥112484	Porest	Ochree	Total
\$	105.554	352.206	1	2 .52 ,849	297 .041	2 .337 .650
Ι.	0.4	10.4		76.5	6'8	100

g	1
1001	L
	1
허	ł
8	ļ
	•

NOUT CORPS PRODUCTION	NODUCITON						CARN CORD'S PRODUCTION	NOLISA					
		1672			1977				1972			1977	
	4	The/We	ret.	ž	Ton/Ha	Ton		ł	Ton/Na	Ton	¥,	Ton/Ha	Ton
Wet Paddy "	746	11 -	413, 9A2	135,554	5.00		Rubber	15.758	10.0	5,300	18,500	0.36 0.44	6,790 37,775
Dry Paddy *	100-077			117,283	2.02	236,966	000001	10/107					
Capadva	43,507	10,70	465,332	578,17	12.10	668.342	Clove	9.616	0.46	6,300 1,200	35,750	0.17	2,20
X-4		1.32	78.654	41.060	1.50	61.656	Colles	000 70	1				
		A.20	20.789	2.673	8.32	22, 252	Tepper	34,290	0.49	17 000	36,667	1010	nnc . 77
Arris han t							Sugar Cane	206	0.19	3	270	1.01	275
pearws +	33,766	0.64	23,019	1,565	0.62	696							
				-	-								

* PADDY X 95% × 64% = RLCO

YOND MIANCE

	Consumption (Ton)	Xg.per Captua	Production (Ton)		Agriculture	Mining d Quarrying
Rice	444,879	120.0	391.530			•
CARANVA +	101 044	A2.2	800.394	1971	41,202	ı
SWEET POLATO				1076	57.440	
Corn	65,620	14.7	61,650			

CONSTANT PRICES	
REGIONAL THGOME AT 1921	

Tocal Billion Rps.

Others

Transport 6 Communication

110*74 110,975

29,864 48,653

2,945 4,082

-

	•		
	41,202	37,440	
	1971	1,976	
391.530	800.394	61.638	2024

* Source National Socie Mconomic Survey 1976

KABUPATES LANDUNG SELATAS

TABOPATES LANDENG ULANA

÷

Kecazatan	Area (Ka ²)	Population	Population Density (Ka ²)
Orbub Belek	232.83	30,151	129.5
V0003000	220.21	67,300	305.6
Kota Azura	207,21	52,738	254.5
Talang Palang	188.77	109,083	\$77.9
Puleu Panggung	1,233,56	62,434	50.6
Pagelaran	268.65	83,950	312.5
Pelogseva	85.42	64,613	256.4
Schoharjo	110.72	71,504	645.8
Gading Lejo	59.63	45,958	\$08.3
Fardasula	131.91	35,515	269.5
Leicadorg	114.36	58,623	512.7
Geology tatean	345.78	105,687	303.0
Netar	1,212.02	102,931	85.0
Jecaton	323.85	158,921	699.7
Telebeturg/Fasjang	157.32	107,001	680.1
Fadang Cermin	344.33	53,054	154.1
Ketibung	496.64	106,006	260.7
Kalianda	176.09	47,559	270.1
Facengahan	110.59	38,160	345.1
Feles	649.07	36,535	83.2
Total	6,765.88	1,437,916	212.5

Kecazatan	Area (Fm ²)	Population	Population Density (Ka ²)
Fotabosi	303.59	74,579	245.7
Abung Barat	365.76	63,767	119.3
Abong Timer	303.09	30,822	101.7
Abong Selatan	306.98	39,670	129.2
Bulit Zemunicz	393.10	30,915	38.6
Tanjung Raja	295,81	20,433	63.1
Seiber Jeys	287.35	37,557	130.7
Kesuy	310.34	25,734	82.9
Benjit	250.00	17,669	10.7
Blasbargan Capu	1,450.42	28,649	19.8
Faradatu	304.65	36,492	119.8
Sunghai Diara	311.79	18,436	59.1
Senghai Selatan	395.20	29,703	75.2
Tolong Lawson Udik	283.86	35,801	126.1
Fulang Bawang Tengah	1,179.53	36,496	32.3
Verggala	2,333.84	35,034	34.6
Falson Rato	1,157.81	14,932	17.9
Babeiga	394.08	26,133	65.3
Xesnji Lempung	2,610.04	10,725	3.9
Balik Bokit	457.52	18,651	33.3
Telala:	1,203.61	33,063	27.5
-Pesisir Etara	551.6G	14,535	26.3
Zesisir fengeh	169.39	35,718	211.0
Pesisir Selatan	1 1,477.50	18,502	32.5
Total	17,348.50	213,519	41.1

ROAD NETVORE

1977 Kebapaten Pozd (Ka) Ct2ers Total Kational Road (Ka) Provincial Load Kabupaten (12) (13) (13) 764.1 · 37.6 432.2 234.3 . Largung Selatan 930.2 378,6 _ 513.9 37.7 Laspung Tengah 645.5 1,230.5 417.5 _ 164.5 Languing Dears 97.1 8.5 83.6 -Kota nešja 1.K. - T.B 5.0 . 2,551.5 2,372.1 1,345.0 -255.5 fetal (Freeloce)

MATEOROLOGY.

at Tanjangharang 1977 Dac. Sep. Oct. Sev. Log. 3.1. .ts>. Feb. Xer. Laı. Eay. Jus. Kesth 25.7 111.0 25.3 91.3 25.8 51.2 25.0 352.2 26.9 72.7 tesp. (°C) Baiofall (ma) Pomodity (1) 26.4 84.9 26.1 241.0 25.6 118.0 25.4 77.6 26.6 25.5 25.2 316.1 326.3 356.1

ANALY RATING UTAXA

NOITATION

468.920	912.CIV	6.1 6

VXV

Aren (Xm ²)	No.of Keematan	No. of Dena	Population
17,300.5	24	454	41.1

IAND USE

		Dry Land	VLLIAGO	Pores t	057454	70107
\$	13.506			-		1,736.850
H	0.8					700

YOOD CROPA PRODUCTION

	-	1977		-	17/0	
	lia	Ton/Ha	Ton	ž	Ton/Ha	Ton
Wet Paddy	305,01	91'C	43,051	•	. 1	•
Dry Paddy	607.63	77.1	73,962	269°67	1.67	83,046
CARANN + SWART Potato	16,754	16.08	269,464	675.61	16.05	247,217
Makine + Peanuc + Soya bean	7,206	0.94	6,769	9,714	0.60	2,819

CASH CROPS PRODUCTION

		1977			1978	
	4	Ton/Xa	Ton	· Ha	Tou/Ha	Ton
Coffee	29.676	0.56	17.579	29.635	0.66	19,582
	24.276	0.0	14.740-	24.683	0.77	. 19,075
clove	10.447	0.20	2,159	10, 377	0.08	859
Rubber	11.945	0.35	4,209	11,777	0.47	5.346
Coconut	22.904	14.0	9.420	20, 203	0.35	965*4

NVLVEUS SUDLINVITUVX VOVO

POINTA TION

1971 1977 Annuel Growth Rate (2) 1.114,174, 1.437,916 5.71

No.of	No.of	Xo.of
Kecanacan	scanacan	Data
20	2	569

KAND UKA

235.750 17.600 316.270	for Rice	Dry Land	Village	Porest	Others	19
	48,544	255,750	17,600	316.270	38,424	676,588

TOOD CROPS, PRODUCTION

		1972	:		1976	
	H.	Ton/Ne	tou	Ą	Ton/Na	Ton
Wet Paddy	44.414	3.95	175,404	442,844	4,12	200,179
Dry Paddy	24,303	5	33,875	30,288	1.91	57,950
Casaava + Sweet Potato	10, 601	8.74	91, 26	. 12,863	11.99	154,230
Malnke + Paanut + Soya bean	23,318	1.08	. 25,363	10,902	2.14	23.369

CASH CROPS PRODUCTION

		1976			1977	
	a.	Ton/Ha	Ton	à	Ton/Ha	Ton
Coffee	30,122	0.77	23,055	48,475	0.59	28,920
Jannad	1.140	0,11	120	666	0.51	510
	12,580	0,19	2,358	15,855	0.19	3,055
Rubber	4,016	0.48	1,947	4,230	0.39	1.687
Coconut	32,365	0.28	9,184	41.997	0.46	19,550

KABUPATEN LAMPUNG UTARA

VEHICLE REGISTRATION

Vehilce Type	19	1978	Growth Rate (Z annual)
Passenger Car			
Truck			
Bus			
Motor Cycle			
Non Motor Vehicle		9,323	
Total			

EDUCATION & HEDICAL CARE

Kéca≞atan	Elezéntary School	Junior High School	Bospital	Health Center	Public Policlinic
Pesisir Selatan	-				
Pesisir Tengah	-				
Pesisir Utara	3				
Balik Bukit	4				1
Suaba Jaya	2				
Bukit Kemuning	7				
Kotabumi	15				
Sungkai Selatan	4				
Kašuy	3		1		
Blambangan Umpu	. 1				
Pakuon Ratu	1				
Tulang Bawang Udik	-				
Tl. Bawang Tengah	6				
Xenggala	6				
Hesuji Lampung	2				
Belalau	s				
Tanjung Raja	2				
Abung Timur	6				
Abung Barat	8				
Abung Selatan	2				
Sungkai Utara	2			1	
Banjit	1				
Baradatu	2				
Bahuga	s				1
Total	87	•	1	-	24

DATA PROVINCE NUSA TONOCARA TONIR

1.1

.....

No.of Dear

No.of Kecamatan

No.of Kabuparan

Area (Vm²) ...

1720

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9

5

49,879,98

.

AND UNAT

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3	L Wet field for Rice	Dry Land	Village	Porest	Ochere	Total
9	142,108	053,926	55,013	2.440.627	1.715.424	4,987,998
н	2.8	. 1.61	0.7	48,9	34.46	100

POOD CROPA PRODUCTION

CARIL CROPA PRODUCTION

		1976			1978	
	a A	Ton/Ma	Ton	¥.	Ton/Na	uor Ton
Rubber .	•		•	•	•	•
Coconut	73,682	0.27	20.592	80.276	081"1C . 9C"0:	31.180
Clove	184			926	8.0	-1
Coffee	12,970	0.26	3.417	15,612	0.21	144.6
7epper	с.	3			*	*
Sugar Cane				1	•	•

4.11 318.037 0.78 157.149 3.81 75.370

490,378 77,344 - 920,250 200,290 - 144,863 19,755

7.79 0.30 6.12

62.869 464,711 23.637

Mailine

1.50 213,786

206.492 142.108

1.80

114,145

Wat Dry Ganava

Ton Ton

1978 Ton/Ite

£

Ton

1974 Ton/Na

2

0.46 10.614

10,030 23,049

16.030 0.55

Sweet Potato Soya bean, Peanut + Kreen small

RECTORAL TREEME AT 1975 CONSAMPLER

	Arteuleure	Mining 6 Quarrying	Trhaspert d Communication	Ochara	Total Million Rps
1975	44,528,325	169,176	1,726,385	46,900,341	93.324.427
1977	46,336,730	195,799	2,030,741	58,992,141	105,892,682

	Condumpcion	KE POR CAPICA	Production (Tan)
Rice	065 110	120.0	129,980
CABRAVA + Sweet Potato	161.400	62.2	207 662
Corn	36,150	14.7	157,149

82-16

* Paddy × 95% × 64%

FOOD MEANCE

KARTPATEN KANCGARAT

.

KABUPATEN BELD

lecazataa	Ares (Fa ²)	Population	Population Density (/Ka ²)	Kecamatan	Area (Ka ²)	Population	Population Density (Ja
.Ruteng	128.2	36,874	288	Lazakses	214	15,154	70.8
llerv. Roteog	56.0	13,292	237	Tasifeto Timur	326	20,775	63.7
3.Kopeta Buteng	70.0	20,615	295	Tasifeto Barat	442	30,282	68.5
I.Satar Xese	156.0	30,587	40	Mataka Timur	573	19,827	35.6
5.Leabor	207.0	29,737	42	Xalaka Teogab	294	37,129	109.3
6.Kosoda	810.9	17,282	21	Xaleka Barat	315	50,631	160.7
7.Terv. Kosodo	864.1	15,274	18				
8.Ecvus	388.1	24,114	62				
9.Perv. Rows	307.2	15,007	49				
10.1est	340.5	15,027	44				
H.Cibal	. 167.4	23,421	140				
12.Lesha - Leda	280.4	18,442	66			1	
13.8erv. L. Leda	334.6	30,206	90				
li.Borong	503.4	26,334	52				
15.Perw. Borong	383.6	22,112	58				
16. El ar	588.0	15,289	26				1
17,Zerv. Elar	420.0	13,161	31				-
Total 17	2,105.0	365,774	51.5	Total	2,114	178,072	81.9

NUSA TENGARA TOKTE (S.I.I)

ANNIER CREA

Kabupatea	National Read (Ka)	Proviocial Road (Kn)	Kabogatea Road (Ka)	Otters (Ka)	Total (%)
Kauggarai Belu			408.0 287.0	-	
otal (Freeince)	\$23.3	1,565.8	2,292.1	-	4,826.2

RETECTORSLOCT

										, at	Kupang 19	78
Soath	Jaz.	Feb.	Xar.	Apr.	Yay.	Jue.	Jol.	£=3.	Sep.	Oct.	<u>5</u>	Dec.
ten⊋. (℃)	26.9	26.0	27.0	26.9	27.4	26.1	25.1	25.8	25.7	23.2	28.7	11.5
ងដែរ(ដ្ឋ)	238.0	766.4	116.1	85.6	162.1	55.1	33.2	11.9	2.0	-	192.9	263.2
Battit	ы	87	81	п	75	74	24	n	64	61	63	n

DATA KAN. MANGCARAI

Annual Growsh Kate (Z) I 100,460 1976 1971 POPULATION • 2.0

VATA

Aren (Km2)	No.of	No.of	Population
	Kecamatan	Dear	Danaity (/Km ²)
7,105.08	17	255	51.5

TAND USE

ļ	Met (tald	Dey LANG	VILLEGO	Forest	Ochere	Total
Į	2.046			228.583		710.508
	0.5			32.2		100

POOD CROPS PRODUCTION

		1972			1978	
<u> </u>	Ă	Ton/Ya	Ton	en .	Ton/Ha	Lon
Wet Ride		•		20,458	2.71	55,495
Dry Rice	ı	•	•	19.683	. 0.36	7.055
Cassava - Sweet Potato	•	•	ı	9,268	1.66	16.106
Maike + Peanuc + Soya bean		•	•	27.204	0.67	18.269

CASH CROPS PRODUCTION

		1972			19/8	
-	A	TON/Na	Ton	Ma	Ton/Ka	uor
Coffee	•	•	•	292'6	J	•
Pepper	•	•	Ŧ	•	Þ	•
Clove	•	•	ŧ	22	J	•
Rubber	Ð	•	3	Ŧ	•	•
Coconut	•	•	•	6,827	•	•
Supar-Cane	•		•		•	•

POPULATION

DATA KAN. NTLU

Annual Growth Rate (2) 2.38 178.072 1979 173,925 1978

ARTA

£	
3	

Not field	Dry Land	Villege	Tores	Others	Total
4,187		•			217,400
1.9			•		100

		1977			1978	
9	ĄX	Ton/Na	Lon	154	Ton/Ha	Ton
Vec Paddy	3,765	1.20	4.813	4,187	1.70	7.138
Dry Paddy	1,176	0.86	1.016	1,145	0.89	1,025
Cassava + Sweet Potato	4.137	0.74	3,072	4,616	2.27	10,503
Marke + Peanut - Sova been	19,415	0.67	761,01 70.0	17,370	07-0	6,988

NOLLONGON SAOND NEVO

		1972			1976	
	ţ.	Ton/Ha	Ton	A.	Ton/Ha	Ton
						•
Coffee	•	•	•)		
Papper	•	•	•	3	1	•
Clove	*	•	•	•	*	ا
Rubber	J.	*	•	•	•	•
Coconut	1		1	19.5	• '	•
Sugar Cane				1	5	۰

:

B2-18

KANUPATRN MANGGARAI

-

VEHTCLE RYGISTMATON

Vehicle Type	19	A7	(X ANNIA)
Passenger Car	8	•	•
Truck	:	105	•
Bue	1	•	•
Mocor Cydle		190	•
Non Motor Vehicle	•	120	•
Total		592	•

YPUCATTON & MYPTCAL CANY

Public Policiinic 1978

NoepAtal Keelth Center

Junior Nigh School

Llemuncary School

TRUCATION & MURICAL CANT

Total

2 3 8 8 8 9

Kegamatan	1. Lamakran 2. Tas = Tim 5. Yasha = Timur 4. Mala = Tumur 0. Mala = Barat	Total
Public Policiania		67
Hend th Canter		17
Koapital		2
Junior Kigh School		2
KLemen tary Xghool		 330
Keçane tan		Total

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1,58

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VINICIA RECESSION

	1	
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Crowth Mate (X annual)

1978

5

Vehicle Type

38 4 9 1 38 6 9 1

Passenger Car Truck

Bue

537 .

Motor Cycle Non Motor Vehicle

DATA PROVINCE SULAWEST UTARA

 $AFee \in (Icm^2)$ 25,786 ARA Annual Growth Rate (Z) 1.98 1,975,367 1978 1.626.407 1974 NOLLYDION

TAND USF

2.578.600 Ochera 581.672 22.7 1,475,622 57.2 Yorest Village 21,600 8.0 Dry Land. 421,068 16.3 Wet flaid for Rige 78,638 3.0 ÷ м

To Cal

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CASH CROPS PRODUCTION

FOOD CROPS PRODUCISION

Coconut Clove Coffee Nutmeg Rubber 297.493 34.908 105.456 135.923 60.538 1.02 25,138 101 1.46 8.20 5.53 3.79 Ton/Ha 1978 255,824 78,638 25,525 22,224 104,542 12,862 125,057 127,165 125,057 127,165 4.422 24,728 ž * Packy x 95% x 64% = Kige Į B 0,71 5.91 1.61 7.96 1.12 5.16 Ton/Ka 761 65.508 22.020 13.140 112.129 , é. ¹ 6,240 £ Soya bean . Feanus + Green Small Fea Sweet Potato Wec Peddy * Dry Feddy * Camerys Maline

214, 926 2.400 1.226 8.427

0.90 0.08 0.39

153.540 237.907 700 28,432 1,244 3,104 7,132 21,629

227,731 20,846 2,855 16,330

• à

1978 Ton/Ne

£

Ton

Ton/HA

1 Ч

7261

FOOD BALANCE

	Consumption (Ton)	Kg per Capita	, Producton
Nice	237,040	120	202.400
Casaava + Sueat Ponats	1.22,870	62.2	146,003
Eog	29,040	14.7	1.55,923

RECTORAL INCOME AT 1974 CONSTANT PRICES

	Agriculture	Mining 6 Quarrying	MINING 6 Transport 6 Quarrying Communication	Othere	Total Million hua
7627	63,349	233	10,522	68.838	142,942
1977	90.014	909	16.486	99.211	206.520

No.of Dena 1,235 No of Kecomatat ŝ No. of Kabupatan r--

BOAD NETWORK

Kabopaten	National Road (km)	Provincial Road (km)	Kabupaten Road (ka)	Others (k=)	fotal (ka)
Single Talaud	_ ·	191.0			
Kogad Masado	-	-	1		
Micabasa	231.9	118.3			
Bol. Morgondow	-225.9	97.8	591.0		914.7
Kocał Gorostalo 🥂	- ·	-			
Corostalo	389.0	25.3	9\$7.0		1,352.3
Kota Áða. Betung _	-	-			-
	-				
			· ·		
Iotal (Province)	819.8	439.4	3,188.8] -	4,410.2

KATEGROLOGY

At Sam Ratolangi Manado 1978

									AL N	a ratoise	gi nanaco	13/0
Koath	Jan.	Feb.	Kar.	Apr.	Kay,	Jez	. Jul.	A=8.	Sep.	Oct.	507.	Dec.
Tezy. (⁰ C) Painfall (m)	25.3 368	25.4 262	25.5 435	25.6 167	26.4 332	25.3 271	25.5 230	26.5 257	25.7 303	26.3 103	25.9 495	25.5 530
Baidity (1)				-								

KAN PATEN COROSIALO

Teczetas	Area (Fa ²)	Fegulation	Population Density (/K=?)
Linbeto	-	42,524	1
Telaga		4\$,692	
Tapa		22,303	
Fabila		28,957	
Severa		15,437	
Bonegantai		23,458	
Batudaa	1	61,261	
Tibava		41,065	
Kveckeg		31,295	
Atleggola		11,017	
Sealata	i	16,281	
Pagayasas		45,955	
Tilasste		28,553	1
Pagoat		18,557	
Yarisa		18,865	
Popayato		20,645	
		l.	
	-		
Total	11,030	473,950	43.0

-. .

DATA KABI GOROWTALO

POPULATION

Annual Growth Nate (Z) 2.72 473,950 1978 425,705 761

AXXA

Population Density (Km ²)	43.0
No . of A . of	219
No.of Kegamaran	16
Area (Km ²)	000'11
<u> < </u>	

IAMD USE

	Wat field for Kine	Dry Land	Village	Torset	Ochere	Total
\$	12,114	56.260	5,260	721.205	306.077	1.103.000
*	4.1	5.5	0.5	-65-é	27.7	100

FOOD CROPS PRODUCTION

		1972			1975	
J	ž	Tion/Ha	Ton	aŭ	Ton/Na	Ton
Wet Paddy				25,274	¢1.4	96.571
Dry Peddy				3,543	1.48	5,251
Cassava + Sveet				3.956	1.51	29,948
Maiss + Paanut				78.710	1.21	46.937

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		1972			1978	
	ž	Ton/Ha	Ton	Ą	Ton/Ma	Ton
Colites				800.	tc.0	019
Nuclear				460.1	•	
Clove				1.498	0.02	22
Rubber	-			•	•	•
Coconut		•		32.040	0.90	28,713

NOTIVIDUOI

PATA KATA TOLLINONGONDON

Annual Growth Rate (I)	4.09
1978	272. 606
761	200, CC2

VIII

7,600 15 202 34.0	Area (Im ²)	No.of Xaqamacan	No tof	Penatry (/ Nm2)
	7.600	15	202	0.95

UND DAN

Worse Others Total		600,490 84,033 760,000	79.0.
T avertiv		2,640 60	-
1		62,150	
Wat field	for Mine	10,665	
			ļ

roop chops production

	¥	Ton/Ne	Ton	A.	Tou/Me	Ton
Wat Ridoa				20,394	3-70	119456
Dry Rice				6,458	1-20	9,670
Cassava + Sweet Potato				2,227	11.6	20, 277
Maxwe + Peanut + Soya bean				27,921	1.22	34, 077

CASH CROPS PRODUCTION

		1972			1978	
	. Ke	Ton/Na	Ton	¥.	Ton/Ha	Ton
Coffee				1.271	0.58	262
Nutneg				1,414		1
Clove				2,622	0.05	227
Rubber				8	ı	
Coconut				36,132	0.83	0.83 30,017

KARUPATUN GORONTALO

VTHICLE ANDIATION

Vehicale Type	61	1979	(Yennue I)
Panaetyer Car		232	
Truck		70	
Pue -		65 50	
Motor Cyale		716	
Non Mator Vehicle		17, 662	
Total	-	16,993	

TPUCATION MOTCAL A CANE

Kesana tan-	1					4	1 an	-				Sang Tombolang	Zcang	2	2	
Keçe	Kotanobayu	Pasas	Modayag	Loltyan	Dunoga	Tol Lot	Pinolosian	Kotabunan	TANK	Dolaang	Lolak	Sang To	Nolany Ttank	bit ca cauna	Kaidipan	Total
Public Policlinia																3
Center P																1
Hospital							_									Ì.
Junior High School																ę
EL montary School			•									-				
Kadana can									-							

NOGNOCHON. "YOU NICLY CONVY

VEHICLA RACISTRATION

Vehicle Type	19	. 67	(X annual)
Baserger Car			
Truck			
Nue .			
Motor Cycle			
Non Motor Vehicle			•
Tocal	·		

PUCATION & MIDINAL CARR

Kegana tan-	Klementary School	Juntor High	Hospitcal	Neel Ch.	Polselinie Polselinie
Kotanobagu	(212) 22				
Panat	26 (180)				
Modayag	19 (126)				
Lolryan	2 (336)				
Dunoga	(010) 90				
tol. Det	25 (153)				
Productan	(111) 91				
Kocabunan	10 (113)				
Thogat	16 (103)				
Dolaang	19 (115)				_
tolak	13 (93)		_		
Sang Tombolang	11 (63)	_			
Nolany Ttank	(951) 61				
bit cas cauna	12 (72).				
Kaldipany	(101).11				
Tocal	305 (2078)		1	87	8

5.189,127 5.722,101 1.41 1.41 1.41 1.69.172 23 1.9 -MD. URF	1771	1978		Annua	1 Growch	Annual Growth Rate (X	N N N		Area (Km ²)		No.of Kabupaten	No .of Kecametan	Can	No.of Dese
MD USIR Mac field Dry Land Village Porest Others Total Na 597.752 1.167.000 - 3.220.000 3.324.120 8.308.872 Na 597.752 1.167.000 - 3.220.000 3.324.120 8.308.872 Na 597.752 1.167.000 - 37.8 41.4 100 Na 70.1 13.7 - 37.8 41.4 100 Na 7000 - 197.4 100 - 100 Na 7001 1.00 - - 37.8 41.4 100 Na 7001 1.205.886 597.732 5.87 2.144.066 Nubber - - 6.094 No 0.70 11.2 23.140 1.150 41.4 1.00 - 2.5.1 No 0.70 11.5 2.144.066 0.77 228.701 Nubber - - 6.094 No 0.70 11.5 5.14 200000000 2.124.006 - 2.14 1.00 No 0.70 11.5 2.140.006 0.77 2.250.706 0.09 0.05 No 0.70 11.6 2.140.006 <th>5,189,227</th> <th>5,722</th> <th>100.1</th> <th></th> <th>1,41</th> <th></th> <th>7</th> <th></th> <th>85.089.72</th> <th></th> <th>ล</th> <th>169</th> <th>· · · ·</th> <th>1,170</th>	5,189,227	5,722	100.1		1,41		7		85.089.72		ล	169	· · · ·	1,170
Her Her Ledid Dry Land Village Poreau Othere Tocal Ka 597.752 1.167.000 - 3.220.000 3.324.120 8.308.872 X 7.1 13.7 - 3.7.8 41.4 100 X 7.1 13.7 - 3.7.8 41.4 100 X 7.01 13.0 41.4 100 100 100 X 7.01 10.1 20.14 20.00 3.324.120 8.308.87 Y 7.01 10.2 3.7.8 2.314.06 10.0 10.0 Y 100 1.205.86 57.752 5.87 2.314.06 Nubber - 3.31 Y 1.126.732 5.87 2.314.06 Nubber - - 0.5 Y 1.126.232 387 2.314.06 Nubber - - 2.31.1 Y 1.156 299.626 0.17 2.150 0.55 0.56 <td< th=""><th></th><th>LAND C</th><th>E S</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>-</th><th></th><th></th><th></th></td<>		LAND C	E S							-	-			
Ha $397,752$ $1.167,000$ $=$ $3.220,000$ $3.524,120$ $8,308,872$ χ 7.1 10.7 $2.7.3$ $4.4.4$ 100 π 7.1 10.7 $ \pi$ 7.1 10.7 $ \pi$ 7.1 10.7 $ \pi$ 7.17 $2.05.060$ 597.752 5.67 $2.14.060$ $ \pi$ $2.726.060$ 597.752 5.67 $2.14.060$ $ -$			 	Wet fie for Ric		y Land	VILLAGe				Tocal	(ı		
χ 7.1 13.7 37.8 $4.4.6$ 100 $\chi^{201/Ma}$ 7.1 13.7 $ 37.8$ $4.4.6$ 100 $\chi^{201/Ma}$ 700 Ma 197.4 100 χ^{11} 3.35 $1.203.866$ 597.752 5.07 $2.314.066$ χ^{11} 3.35 $1.203.866$ 597.752 5.07 $2.314.066$ χ^{11} $3.15.744$ 39.467 7.17 282.619 $Nubber$ $ 107.4$ 570 7.41 315.744 39.467 7.17 282.619 $Coortract$ $ 10.1$ 570 0.70 117.482 299.407 7.17 282.619 $Coortract$ $ 5.10$ 0.74 311.421 5.14 59.039 29.407 7.17 282.619 212 5.30 64.742 11.471 5.16 59.039 212 5.30 64.742 11.471 5.16 59.039 250 0.54 9.02 0.62 0.54 $ 25.031$ $10.4.22$ 0.62			¥	507.75		67,000		3.220.0(-	120	8,308,872			
1972 1974 1974 1973 7001/14 700 1974 171 3.35 1,205,860 597,752 5.87 2,314,060 100 1,36 27,389 321,107 1,50 48.191 100 1,36 27,314 39,407 7,17 282,619 100 7,41 315,744 39,407 7,17 282,619 100 0,70 117,842 293,620 0,77 228.793 112 5.30 64.742 11,471 5.14 59,059 112 5.30 64.742 11,471 5.14 59,059 112 5.30 64.742 11,471 5.14 59,059 112 5.30 64.742 11,471 5.14 59,059 112 5.30 64.742 11,471 5.14 59,059 112 5.30 64.742 11,471 5.14 59,059 112 5.30 0.52 48.196 54.46 - 21,074 113 5.14 5.059 11,471 5.14 59,059 - 21,074 113 5.30 0.52 48.196 54.46 - - 21,074 <			ų	1.7		10.7	•				100	1		
Ha 1972 1974 Na 1974 Ton/Ha Ton/Ha Ton/Ha Ton 339,171 3.33 1,205,860 597,752 5.87 2,314,066 Nubber - - 23.1 20,400 1.01 20,400 1.126 1,206 40.1391 1 23.107 1.50 42.191 20.1791 1 20,400 1.01 27,389 32,107 1.50 42.191 Coconuc - - 23.1 20,400 1.17,442 39,607 7.17 282,619 Cocicee - - 0.705 167,304 0.70 117,442 20,626 0.77 228,793 Coffee - - 0.05 12,212 3.30 64,742 11,471 5.14 59,039 Sugar Cane - 2,637 1 48,736 0.34 1.04,294 0.02 63,306 0.76 2,630 29,039 1 48,736 0.34 0.02 63,0	OD CROPS PRODU	CLION						CASH CROPS 1	KODUCTION					
Ha 1972 Zon/Na Ton Ha Zon/Na Ton Ma Ton/Na Ton 339,171 3.03 1.205,860 597.752 5.87 2.314,060 Xubber - - 23.1 20,400 1.304 27,389 32,107 1.50 48.191 Coconut - - 23.1 20,400 1.31,744 39,407 7.17 282,619 Coconut - - 01.791 1 2167.304 0.70 117,842 29,407 7.17 282,619 Coconut - - 01.791 10.5 167,304 0.70 117,842 29,407 7.17 285,419 Cocieve - - 10.5 167,304 0.70 112,711 5.14 59,039 Ectove - - 10.5 1 48.736 0.431 1.04,294 0.62 63.306 - 29,039 Ectove - - 2,637 1 48.736							ĺ			1074			1978	
359.171 3.35.171 3.35.187 2.314.060 Mubber - - 25.1 20.493 1.34 27.369 327.107 1.50 48.191 Coconuc - - 61.791 1 20.493 1.34 37.368 32.107 1.50 48.191 Coconuc - - 61.791 1 27.364 315.744 39.607 7.17 282.619 Clove - - 61.791 1 0.70 117.842 295.626 0.77 2287.793 Coffee - - 6.094 167.304 0.70 11.671 5.14 59.039 Fepper - - 107.6 12.212 5.30 64.742 11.64.294 0.62 65.306 51.4 59.039 Fepper - - 2.637 1 48.736 0.34 104.294 0.62 65.306 65.306 - 2.637 1 48.736 0.64 0.62 65.306 - - 2.637 1 48.736 0.64 <td< th=""><th></th><th></th><th>1972 Ton/Ma</th><th>Lon</th><th>A</th><th>Ton/Hu</th><th>Ten</th><th> E</th><th>¥</th><th>/uor</th><th>Н</th><th>đ Ž</th><th>Ton/Ka</th><th>Ton</th></td<>			1972 Ton/Ma	Lon	A	Ton/Hu	Ten	E	¥	/uor	Н	đ Ž	Ton/Ka	Ton
33y1/1/1 313,1/1/1 313,1/1/1 48,19			;	100 460	407 7 2	•	2.314.060	Rubber	•		25.1	74	•	•
20.270 7.41 315.744 39.607 7.17 282.619 CLOVE - - 10.5 42.576 7.41 315.744 39.607 7.17 282.619 CLOVE - - 10.5 167.304 0.70 117.842 295.626 0.77 228.793 Coffee - - 6.094 1 12.212 5.30 64.742 11.471 5.14 59.039 Pepper - - 2.607 1 48.735 0.34 20.62 0.02 63.306 0.03 50.437 50.039 Sugar Cane - - 2.607 1 48.735 0.35 26.431 104.294 0.02 63.306 63.306 - 2.6.037 1 48.735 0.35 56.431 104.294 0.02 63.306 - - 2.6.037 1 48.736 0.55 50.057 50.936 50.936 - - 2.6.037 1 48.736 0.55 50.039 50.936 - - 2.6.037	Wet Paddy *	1/1.400		084 44	201.01		48.191	Coconut	•	•	61,791	106,000	0.68	72.258
	Dry Paddy -	744° A7		4074 314	10 407	2.1.2	282.619	Cleve	•	•	10.5	11,750	0.01	2
0 12,212 5.30 64,742 11,471 5.14 59,039 Pepper - - 107.6 1 48,736 0.54 26,431 104,294 0.62 63.366 544er Cane - 2,637 1 48,736 0.54 26,431 104,294 0.62 63.366 544er Cane - 2,637 1 48,736 0.54 26,431 104,294 0.62 63.366 544er Cane - 2,637 1 48,736 0.54 26,431 104,294 0.62 63.366 544er Cane - 2,637 1 48,736 0.55 65.366 59.366 59.366 50.5700 - - 2,637	CARROVA	0.0.7		117.442	203.626	0.77	226.,793	Coffee		•	6.094	26,200	0.22	• 000
1 48.736 0.34 26.451 104.294 0.62 65.366 Sugar Cane - 2.637 * Paddy X 952 x 642 = Nice Rice Rice Reconstruction AT 1959 Construct Paces	TALKS States - Neverse			A4 742	11 471	5.14	59,039	Pepper	•	•	107.6		2.2	200.0
1 48.756 0.54 26.451 104.294 0.62 * Paddy X 95Z * 64Z = Rice	SWEEL FOLDER	4				•	<u> </u>	Sugar Cane	•		2, 637	750	8 9	7.500
* Paddy X 95% * 64% = Rice	soya pean . Paanut + Kraan small . Pea	48,756	0.5	26,451		0.62	65.366							
	*	addy X 952		ti ce				•.						
	POOD BALANCE						RECTONAL T	NCOME AT 1969	CONSTANT THE	202				

Total builton Rpa

Ochera

Transport & Communication

Mining 6 Quartrine

ALTICULEUTO

750444550 (Ten) 1,436,230 341,679 228,793

Kk per capice

Consumption (Ton) 120. 62.2 14.7

686.700 335.940

64.120

Cammava + Bunet Potato Corn

Ride

88,308 193,482

16.298 74.808

1.714 7.245

14,942 39,139

50,354 72,290

1969

DATA PROVINCE NITAWARI SHLATAN

NOTIVITY OF

-

			ROAD NETWORK			1978
. •	Kebupetea	Kational Road (Ka)	Provincial Road (Ka)	Kabupatea Road (Ka)	Others (km)	Total (b)
÷						
]				
	Total (Prevince)	583.2	1,815.8			1

HATECROLOGY

										ijec <u>ę</u> Faed		Lec.
Noath	Je3.	Feb.	Mar.	Lpr.	Y.ey.	Jea.	Jul.	A78-	Sep.	Oct.	16C7.	
tezy. (°C) kelefett (va) g.aidity (1)	25.9 561 85	25.7 494 88	26.2 239 84	26.4 199 81	27.3 202 85	25.1 193 83	25.3 139 83	25.9 35 78	26.0 53 79	27.2 36 73	26.4 162 81	25.1 100 83
_ ·		 :			I							
									# 4 H D 4	IFS BOXE		

RARTATES TARAUR

LARTAILS BONE

Tecezatan	Ares (Fm2)	Population	Population Density (/Ka?)	Kecasatan	Area (ks²)	Population	Population Density (/Ka
	255.5	31,890	12.5	T. Biattang	33	52,024	1,576.5
lesbackerg Frera	73.8	33,251	45.0	Palabba	122	34,037	278.1
lestarken Selatan	22.7	25,245	111,2	Aving Pose	197	31,156	249.4
alesong Frara	35.1	32,204	89.9	Sibulte	151	22,345	145
ilesong Selatan	25.8	19,478	15.5	Berebbo	152	23,803	155.7
apparasurge	74.0	21,431	29.0	Posre	783	12,783	45.4
2082182092808	/4.0			Cica	159	17,493	110.1
			4 (Kare	278	18,559	65.3
			Į Į	Tessa	1 111	16,952	87.4
	1			Salocello	165	17,953	121.3
	1		1 1	Fajsara	145	24,417	167.3
	1			Labo	255	24,354	\$5.2
	1			Cleven	217	42,877 -	197.6
				Lezzariaja	302	45,677	155.6
	Į			Libureze	363	20, 221	55.1
				Lasure	236	36.524	49.7
		· [tella Sistinge	115	45,511	307.6
		1	1	Diaboccos	159	38,101	239.2
		1		Ajazalle	111	45,675	263.7
	1	1	1	Cearsa	45	25,225	504.3
•				Boateesal	362	12,725	35.1
fetal	455.9	163,493	335.8	Total	4,555	610,221	134.0

KAR PATER SIDRAP

FABURATES" PINEASC

-

Vecanatan	Ares (Ts?)	Topulation	Fogulation Density (/Km ²	Kecasstan	Area (Kst)	Population	Population Density (/En
laritenzgae	122.0	36,638	302.8	Vataog Sevitto	237.0	69,217	292,1
fanca Mijang	\$9.6	33,695	56.6	Kattfrobulu	161.0	21,154	135.6
Barasti	43.2	25,281	52.5	Soppa	323.0	22,576	183.6
lattang Puls	105.2	15,676	149.1	Mattiro Scape	. 176.0	- 35,954	204.4
Dua Pitce	1,825.0	50,912	27.9	Vataspasos	330.0	28,414	85.1
Tells Limpoe	42.8	16,285	38,5	Duaspaoua	574.0	50,451	\$5.4
fanca Lantang	138.0	19,426	149.8	Leabarg	910.0	27,649	30.4
		_					
Ictal	2,339.7	197,913	25.6	Total	2,508.0	255,456	101.9

•

TAX PATES NOVAS

Tecessta:	LIE2 (T3 ²)	Population	Population Decsity (/Ka ²)
Polevali	378.0	65,364	175.6
Waxeelys	858.0	24,231	85.5
Cangalagian	6:00.0	57,203	95.4
Titasbusg	643.0	71,010	110.5
Yazasa	1,754.0	29,241	16.7
843)I	2,332.0	28,953	12.5
Superorecy	1,570.0	13,0%	8.3
Pana .	1,850.0	16,335	8.9
Ictal	9,935	356,642	35.4

UAUA KAB. TAKATAR

NOLLVIAAAA

	1401-	1978	Annual Crowch Rate (2)
	152,333	163.499	1.00
VIX			*

Area (Xm ²)	No . OF	No . of	Popula Cio
	Karamatan	Dana	Denairy (/Km2
484.9	•	ŝ	5.5.6

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÷.	
Э.	
ρ.	
Z -	
<.	

	Net field	Dry Land	Village	TotesC	Othere	TOTAL
5	17,048			15,622		48.690
**	55.0			1,2C		001

NOILSAGONA SAONS GOGA

Ma Ton/Ha Ton Ha 16,113 2.75 44,465 17,048 734 2.13 1.383 300 737 7.25 3,348 406			1976			1976		
X6,113 2.75 44,465 1 734 2.13 1.963 1 acco 737 7.25 5.348 antuc 7.25 5.348		KA	Ton/Ha	Ton	K,	Ton/Ma	Ten	
734 2.13 1.583 ato 737 7.25 3.348 whut	Hat Paddy	24,113	2.75	44.465	17.048	¢4. č	38,634	
737 7.25 3.348	Dry Paddy	734	2.13	1.563	90	2.03	610	
	Casaava + Sweet Fotato	7.57	7.23	3,248	907	5.79	2.351	
3,059 0.79 2,439	Mains + Peanut + Boya Dean	3,059	0.79	2.439	5,860	0.43	2.516	

CASH CROPS PRODUCITION

	_	1972			1976	ļ
	¥4	Ton/Ka	Ton	Aa	Ton/Na	Ton
Coffee				•	Ŧ	I
Papper				•		•
Clova				n	•	•
Rubber				• 1	•	
COCORUE				1.280	0.18	236
Sugar Cane				100	5.70	570

NOTIA UNION

DATA KAN, NONE

1971	1978	Annual Growth Kate (X)
996,800	610,221	0.32

	Ation (/Km2)	
	Population Density (/Km2	0.461
	No . of Deaa	205
-	No . of Kreamatan	ĩ
J	Area (Km2)	4,555
VIIN	-	

IVN AVV

	for Rice	purt Aid	VILLAGO	Fortes C	Others	Total
ł	78.351	-	•	162,955		455,500
н	17.2			33.8	-	100

POOD CROPS MODUCITON

		1976			1928	
4	A.	Ton/Ha	Ton	ž	Ton/Ha	ror.
Wet Paddy	915.06	2.52	152,824	78,531	3.0	226,657
Dry Paddy	4.554	6C.1	6,545	6,144	1.45	8,970
Cassava + Suest Potsto	711	5.10	3,627	4,357	4.35	23,03
Maine + Paanuc + Soya bean	23,403 (0.30	12.726	79.200	0. <i>6</i> 0	47.590

CASH CROPS PRODUCTION

		1972			1978	
	AA A	Ton/Ha	Ton	Å	Ton/its	Ton
Coftee				135	0.16	
Pepper	_	-		2	0.14	~
Clove.	_			450	0.07	n
Rubber		-		•	•	•
Coconut				9,300	0.47	4.384
Sugar Cane				155	6.48	1.005

DATA KAN. PINNANG

NOTTATIVAD

Annual Growth Rate (2)	1
1978	255,456
1721.	258, 214

VAVV

Area (Km ²)	No • o L Kacama can	No . of Assa	Population Deneity (/Km ²)
2,504.51	4	77	8.101

TAND USK

	Wet field	Dry Land	V111420	Forest	Öthera	Total	
\$	61.145			91,200		2594851	
$\left[\right]$	24.4			36.6		001	

		1976			- 1201	
	Ил	Ton/Ma	Ton	Å	Ton/Na	Ton
Wet Paddy	50,05	4.22	211.297	C'71,10	5.67	246,484
Dry Paddy	3	1.07	89	111	1.12	124
CARRAVA + Sweet Potato	820	10.32	6.463	296	0.46	8.528
Maiss + Peanut + Soya bean	2,443	0.85	2,069	1,753	0.84	1,474

NOTIONA SAOND HEYO

		1072			1920	
	4	Ton/Ma	Ton	2	Ton/Ha	E B E
Colites				35	0.1A	\$
Pappar				2	0.04	1.0
clove				2	0.0	1.0
Rubber				•	•	•
Cocotiu t				6.952	0.83	5,800
Sugar Cane				•	•	•

DATA XAN. STDRAP

POPULATION

Annual Growth Mate (I)	4.24	
1978	\$16.913	
1971	181,58%	

VIII

39.74 7 32	Area (Km ²)	NG.OF Vacamaran	No.of Dave	Population
	2.339.74	4	32	84.6

11
<u> </u>
24
21

	Wet fight	Drv Tand	Villare	Torest	0chere	Total
\$	61.625					233.974
×	26.4					100

POOD CROPS PRODUCTION

.

		1976			1978	
	Ka	Ton/Ha	Ton	, al	Ton/Ha	Ton
Wet Paddy	55,648	88.4	767 727	528,13	4.61	285,200
Dry Paddy	14	12.0	2	195	0.75	146
Cansava + Sweet Ibtato	176	7.09	3,838	864	6.88	5,940
Malaa + Peanuc + Soya baan	707	0.69	278	3,840	0.70	2,684

CASH CHOPS PRODUCTION

		1972			1978	
	2	Ton/Ha	Ton	Ma	ron/Ha	uot
Coffee				R	21.0	•
Persons				n	0.23	0.7
Clov.				5	0.00	1.0
tubber				1	•	•
Coconut		-		3, 870	0.62	2.401
Surer Cane				2	3.80	\$

PATA KAR, POUMS

NOTAAU

.

1971	8461	Annual Growth Rate (X)
945.516	336.442	1.85
-		

ARIA

(Km ²)	No ent Kecamatan	Dena	Populacion Deneity (/Km2)
9,985.0	•	69	35.7

AND ONVI

	Wet Itera	Dry Land	VILLAKO	Poremc	Others	Total	1
•	27.362					998,500	Ľ
Į						001	
ĸ	2.7						<u> </u>

NOLLIDIOONA SAOND ODOA

		1976			0144	
		Ton/NA	Lon	Ma	Ton/Ha	Lon
Wet Paddy Dev Taddv	18,683 C0C	3.98 1.12	74.263	27, 362 2, 791	94°7	110,414 4,062
Cassava + Sweet Totato	247, C	7.45	25.917	2 735	7.44	20,503
Maise + Peanus + Sova bean	2,032	0.63	1.290	3.693	0.86	3,172

		1972			1461	
	Å	Ton/Ka	Lon	đH	Ton/Ha	uol
				5,400	0.27	1.470
				5	0.20	0.0
Pepper				007	00.0	0.5
Clove						•
Rubber		_			, a	10.650
Çoconut					40.0	
Sugar Cane				•	AV-C	ł

KARUPATION NONE

VHHICLE RECERTENTION

Vehicle Type	19	19	Growth Mate (X annuel)
Passenker Car			-
Truck			
l)u=			
Motor Cycle			
Non Motor Vehicle			
Total			

TOUCATION & MEDICAL CARE

		Kecematan	Class Toon (Class Toon) (C	Juntur Takh	Koep%tal	Real th Centrer	Public
--	--	-----------	----------------------------	-------------	----------	--------------------	--------

•

ONVINIA NALVA HAVY

VENTERN NYCLERATION

Vehicle Type	19	9267	Crowch Race (Z annual)
Passenger Car	.	'n	•
Truck	ı	\$	•
thus	•	•	• •
Mator Cycle		9/T	
Non Motor Vehicle	,	16.334	
Total			

MANCATTON A MIRICAL CANE

Kagamatan	Watank Sawtco	Matiro Bulu	Suppa	Matctro Sompa	ya canpanua	אווז מקוופוא	Lambany.	-
Loonex Varool	57	a 	CT	5	8	32	12	
Juntor Hitch		•	1	•	•	•	•	
Kospital	-1	•	•	•	•	•		.
Keal th Center	-4	-1	-		~		-4	 ~
Public Policitude	•	а .	r.a.	ы	n	61	-1	 97
Kedamatan								 Toral
School						-		220
School					-			 52

-

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SANAYON MUTANIAN

VINTERN NEGENTRATION

Vahicle Type	19	1977	Growth Rate (Z annual)
Passanger Car		50	
Truck		\$	
Run		26	
Motor Cycle		887	
Non Motor Vehicle		5,711	
Tocal		6.753	

XDUCATTON & MKDTCAL CARE

Public Policitnic

Nompical Neelth Center

B2-30

		2976			1970		
	Ş	NN/NOI	NOT	5	TON/NOT	NOL	
to the second	47.1.2	2.47	15.164	6.623	2.41	16,003	
	166	2	161	362	12.0	273	
Annu. Arr	Ĩ	2	7.975	1.389	11.27	15.657	
	446	0.60	2-340	121 12	0,65	9.505	
Meane Breet Potatons	3	8	250	202	4-43	803	
doya Bean, Peanut, Green Small Pea	671	9.66	443	1,241	0-64	705	
CASH CROPS PRODUCTION							
		1976			1978		
	Ŕ	VOL/NOL	NOT	٤	NAVIOL	NOL L	
	 				•	•	
Autor. Cootaut:	-			20	8,0	27.6	
Clove				2	0.07	1.85	
Coffee				336	0.30	160.8	
Tepper				ų	8.0	0.9	
Sugar Cune				\$	1	•	
Othera				34	45:0	<u>к.</u> ч	
POOD NALANCT		ļ					
	ASNOD	CONSUMPTION	XC. PE	XC. PERCAPITA	doka	ANDUCTION	
			ĺ				

XCCMATIN	U NUEN	NOLTAIDADA	2 may / Allengia
1. Entekeng	-		5.08
2. Maswa	282	19,650	7178
3. Anggeraje	a 243-	22,920	94.4
	200	32,004	94.5
	340	22,534	66.3
THE	2.941	129,347	66.6
POPULATION			
1401	1078	ANNU RA	ANNUAL CHOMPH RATE (1)
121,140	120,347		٥.٥
VAAV			
ANKA COM ²)	NO OF RECIMPTION	NO OF DEEN	POPULIATION, DEVELTY (Den ⁷)

NEN CM ²)	NO OF RECOMPLEN	NO OF DESN	DENSITY COM
1.041	5	02	66,6

2	F	I
-	5	
\$	È	
2	Z	

63	NOR FIELD	DAY TAND	VILLING	rower	orana	TULOL
	2,641	26,523	•	164 .076		194,100
1	8C. 1	33.64	•	90.46	•	100

15,345 26,552 8,585

120 62 :2 14 : 7

15,522 8,045 1,901

Mide Cassaya + Dutet Potatoes Corn

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E Z	
TAN T	
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NOPULATION 1.97A

	RECONSIGN	۸ אנגא (الاس ²)	POPULATION	POPULATION Dengity / Yen ²	
ਜ	Bitnemu		51,354		% and a second
3.	Tairmalatea		51,082		Coconut
'n	Bengkala		44.776	-	Clove
4	Batang		000.04		COLIC
5			37.526		Capok Tree
	TOINI	700	225,926	246	Tobado
POPULATION	202				VYHICUA NROAAT

1, 705

7

1,550

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NOL

VN/NOI 1970

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NOL VIVIOL VI

	Annual growith (*)	2.2	
	1977	225,926	
MORTATION	7467	200,605	ANTA

NOTIVITY DOW

Net Con ² 1	NO OF ACCUMPTIN	N	No OF DESN	5	DENSITY OG	TTON Otm ²)
004			8		206	
					•	
-		1976	-		1970	
	¥.	TON/HU	NOL	N.	. VIL/NOL	NOL
Wet Poddy	20,056	2.3	50, 366	26,876	2.93	78,612
Dry Paddy	150	2.27	183	434	1.41	615
CARTAYA	3,219	7.62	24,540	190.0	7.57	29,905
Maine	23,926	0.64	15,298	27,701	0.02	22,500
Peanute + Meas	9,204	0.44	4.080	002 "0	0.69	5 X C

-

Contras		- C2		Ä
Capok Tree		293	0.5	9
704440		120		â
VEHECUM NUCLANIANTION			:	
אבאד אנכוגע	1971	1978	CM043	GROWTH RATE (ANNUAL)
Passenger, Car		57		-
Truck		27		
90.6		8		
Motor Cydle	-	202		
Non Motor Vehicle		3, 532		
		4.089		

KECHATAN	SCHOOL SCHOOL	JUNION MICH SCHOOL	TVII ASON	KENTIN	POBLIC POLI CLINIC
DÂMMMU	310	62		ч	
Tannalataa	262	ร		H	
Bangkala	217	2		н	
DA CANG	266	52		4	
Xalara	226	9		4	
	1,303	100		\$	

B2-32

DATA FROVINCE SULAWILL THNGGAPA

Annual Growth Rate (2) 2.43 844,498 1978 714.120 1971 POPULATION

TAND USY

20.05

No.of Kecamatan

Area (Xm2) Kabupaten

A32

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4

36.140

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Yet Stald	Dry Land	Village	Torest	Ochera	TOLOT
14.41	162,720	•	2,166,000	1,485,280	3.814.000
7 0	6.4	•	56.8	38.5	100

FOOD CROPS PRODUCTION

CASH CROPS PRODUCTION

		C791			1978				1972			1978
	÷,	Ton/Ha	Ton	HA	Ton/Ma	Ten		HA	Ton/Ha	Lon	A.	Ton/HA
Het Paddy	15,238	2.55	36.872	14.472	2.12	170.00.	Rubber	•	•	ŗ	•	
Dry Paddy	17,296	1.58	27, 261	24.759	1.20	29,650	Coconut		-		33,624	0.48
CARANA	19,818	11.50	227 907	24.591	5.92	145,521	Clove				1,251	0.0
M45.84	32,000	1.46	75.920	54,540	0.34	45,724	Coffee				4,238	0.17
SWARE POLATO	4.478	7.6	34,033	6.278	12.2	77,788	10004		•		ระ	0.18
Soya bean. Resout + Kreen emell	1,564	0.74	1,156	2,489	0.55	1.372	Sugar Cana				530	0.27
*	Paddy X	* Paddy X 95% X 64% = %ica	- Rica	1								
4	14 9 WAY .	** Azes & Production on 1974	on 1974									

-16.212 5 733 45 45

Ton

TOOD PALANCE			
	Concumption (Ten)	Kg per capica	Production (Ton)
R.S.G.	101.340	120	36,660
Cassava + Sweet Potato	92,530	62.2	233.309
Corn	12,410	14.7	45.724

I

RECTONAL INCOME AT 1969 CONSTANT PRICES

2	•	
Total Juliton Rpa	9,238.3	13,708.6
Ochex.	1,298.5	2.301.6
tining é Transporc é Marrying Communication	108.6	162.1
Mining 6 Quarrying	1,418.0	4,772.2
Agriculture	7.612.8	6.472.7
	1 969	5461

RABUPATES RENDARI

RARIPATES BUTOS

_

Lecazatan	Area (F=?)	Population	Population Density (/Fx2
I. Tinanggea	1,338.93	20,153	15.0
7. Laicea	2,052.97	18,178	8.8
3. Yawooli	404.80	15,416	33.1
4. Noraro	1,828.83	17,258	9.4
5. Replacedo	1,011.97	22,850	22.6
6. Lasbuya	1,408.83	16,863	17.0
7. Vavotobi	1,276.54	22,900	17.9
8. Sampara	1,091.65	14,669	33.4
9. Kabécega	42.34	18,259	435.4
10.Poasta	87.32	11,329	130.2
11.Restari	31.42	33,858	1,092.5
12.Soropia	- 37.37	6,472	376.9
13.tasolo	2,314.58	12,978	5.6
14.Tna-Aha	3,412.13	16,679	11.8
15.Asera	2,076.85	7,917	3.8
			ļ
	1		
Total	15,450.0	255,858	15.5

Recording	Area (Ks ²)	Population	Population Density (/Km ²)
Bicongho	155	10,393	65.6
Tosla	115	14,110	122.7
Faledupa	104	15,174	145.9
Vangi-Vergi	458	31,187	63.6
Lasaliwa	597	10,033	16.8
Pasar Vajo	473	23,470	49.6
Sespoleva	205	19,671	95.5
Zatauga	152	17,418	122.7
Wolfo	221	49,281	223.0
Espectors	113	6,601	58.4
G.V	339	28,110	82.9
Kevesecgka	548	19,781	35.1
Kala Eca	933	21,717	23.1
Foleang	1,052	25,023	23.6
<u>babla</u>	1,600	13,059	13.0
	<u> </u>	 	.
Tota)	6,453	305,028	47.2

ECAD XETNORX

Kabapateo	Kattocal Road (Ka)	Provincia) Road (Fa)	kabopaten Road (Ka)	Ctbers (Is)	Tetal (fs)
1. 87105	-	-	550	-	-
2. 16.334	-	-	353	-	
). IEXAN	_	-	\$50		
4. EMARA	-	-	301	-	
			1		
				;	
Tetal (freetine)	197	239	1,829	-	2,265

NE TECSOLOGY

										2L		1978
Seath	Ja2.	Feð.	¥21.	Age.	Yzy.	Jap.	ы.	A=g.	Sey.	Ôct.	X:7.	Dec.
teage (%) Refected (20) Batticy (1)	27.0 184 81	28_1 279 87	28.1 459 85	26.2 330 85	26-8]49 85	25.9 245 89	25.5 142 88	25.5 163 87	25.9 342 85	26.4 121 85	27,1 127 83	28.9 108 84

DATA KAD. KINDARI

NOLLYMAAA

AREA

Area (Ka ²)	NU . OL Kagamatan	No.01 Dama Ame	Denatry (/Km2
16.400	51	242	2.61

ARD USI

POOR CROPA PRODUCTION

		1 2 1 4				
	X.	Ton/Ha	Ton	Å	Ton/YA	Ton
Wet Paddy				6.709	1.94	13.018
Dry Paddy				2,169	1.21	16,687
Canadva - Bueet Potato				1,209	16.9	8.347
Malma + Paanuc + Soya baan	-			5.304	0.62	3,290

SH CROPS PRODUCTION

		1972		_	1978	
	Ŧ	Ton/Xa	Ton	μv	Ton/Ha	Ton
Colfee				1.742	0.17	302
Pactor				178	0.15	20
Clove				697	0.01	4
Kubber				•		•
Coconut				13.720	14.0	5.576
Sucar Cana		• • •		214	0.24	2

DATA KAN. DUTON

Annual Growth Rate (2) 0.22 305,028 1978 300, 434 NOTIATION 1971

VARA

Area (Km2)	No.of Kacamatan	No.of Data	Population
6.463	15	169	47.2

IAND USE

Total	002.046	8
ochere	369.200	57.0
Perest	200,000	31.0
VILLAGE		
Dry Land	74,033	11.5
Wat field	3,067	5.0
	ž	

TOOD CROPS PRODUCTION

		1978			1979	
	ž	Ton/Na	uor	AH	Ton/He	Lon
Wet Paddy	2,112	2.81	3,934	290°C	2.04	18,298
Dry Paddy	2.975	1.29	3,831	5,901		
Commeva + Sweet Potato	17.085	2.0%	80,446	21.386	6.79	6.79 145.287
Matse + Peanur + Noya bean	26,880	0.73	19,724	30,058	0.73	21.895

CASH CROPS PRODUCTION

		107H			1979	
	Ą	Ton/Na	Ton	Å	Ton/Na	Ton
Coffee	612	0.27	164	710	0.23	166
Tapper	16	•	•			
Clove	94	•	•			
Xubber	1	•	•			
Coconut	9,013	0.67	6,048	9,127	0.65	5,956
Sugar Cane	~	1	•			

-

THURWER NEEDENKY

NOILVALSIDER ADDINAN

Vehidle Type	19	1978	(I annual)
		ł	
Passenger Car	1	965	•
Truck	1 1	64	•
ent.	•	4 414	•
Motor Cycle	8		•
Non Mator Vehicle	•	470°1	I
Total		6.079	÷

ADUCATION 6. MEDICAL GARK

Kocamatan Kitemantary Junior Migh Gabodi Sabodi Kospital (Clam Norm)	
al Realth Center	
Publation Polisiania	

KARUPATRN PUTON

VENTCLE REFERENCES

Vehicle Type	19	1978	Growth Xate (X annual)
Basenver Car			
Truck	۰	127	
Bua	\$	•	
Motor Cycle		1,276	
Non Metor Vehicle	•	1,000	
Total	•	2.412	

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NDUCATION & MUDICAL CARE

Kacama ca h	Klementary School	Junior Migh School (Class Room)	Nospical	Meelth Center	Public Policitnic
Total	1813) 10C	23 (07)	6	1	#

B2-36

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APPENDIX B-3 FORCAST OF AGRICULTURAL PRODUCTION

(B3)

7 KABUPATENS

ÔF

KAB. KEPULAUAN RTAU

SUPPORT WORK 3 1.

1.	<u>Without Projec</u> t			
	(1) Population	401,980/'81	2.0 %/annual	
	(2) Harvested Area			
	o food crops	a, wet paddy b. dry paddy c. cassava + sweet potato d. maize + soya bean +	370 ha 220 ha 6,600 ha 300 ha	0 %/annual 2 %/annual 4 %/annual 4 %/annual
	o cash crops	 a. clove b. rubber c. coconut 	3,500 ha 58,500 ha 40,000 ha	6.0 %/annual -2.0 %/annual 2.0 %/annual
	(3) Yield Rate	:		
	o food crops	a. wet paddy b. dry paddy c. cassava+ d. maize+	3.70 t/ha 0.70 t/ha 6.10 t/ha 0.95 t/ha	l.8 %/annual 0 %/annual 0 %/annual 3.0 %/annual
	o cash crops	a. clove b. rubber c. coconut	0.10 t/ha 0.20 t/ha 0.40 t/ha	0 %/annual 0 %/annual 0 %/annual
2.	With Project			
	(1) Population	401,980/'81	2.1 %/annual	
	(2) Harvested Area			
	o food crops	a. wet paddy b. dry paddy c. cassava +) 3 years d. paize +) 10% incre	370 ha 220 ha 6,600 ha case 300 ha	0 %/annual 2.1 %/annual 4.2 %/annual 4.2 %/annual
	cash crops	a. clove b. rubbér) 3 years c. coconut)10% incréase	3,500 ha 58,500 ha 40,000 ha	6.1 %/annual -2.1 %/annual 2.0 %/annual
	(3) Yield Rate			
	o food crops	a. wet paddy b. dry paddy c. cassava + d. maize +	3.70 t/ha 0.70 t/ha 6.10 t/ha 0.95 t/ha	1.8 %/annual O %/annual O %/annual 3.0 %/annual
	o cash crops	a. clove b. rubber c. coconut	0.10 t/ha 0.20 t/ha 0.40 t/ha	0 %/annual 1.0 %/annual 0 %/annual

3. Road Condition

Area;	flat
Road surface type;	earth 92.7 % gravel (stone) 0 %
Road length;	total 473 Km supported 411 Km.
Surface condition;	good 41.3 %, fair 6.9 %, poor 30.4%, bad 21.4 %

83-1

4. Consumption

(1) rice	120 Kg/capita annual
(2) cassava +	62,2 Kg/capita annual
(3) maize +	14,7 Kg/capita annual
(4) others	4,5 Kg/capita annual

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5. Road Network

(1) National road length	0 Km		
(2) Provincial road length	0 Km		
(3) Kabupaten road length	473 Km	(411)	
(4) Total	473 Km		

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KAB. KEPULAUAN RIAU (WIThout Project)

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							Methodat Salat us to			MOD CONS	CONSTRUCTION		
•		ð.	8	COPS PRODUCTION									Production to be
Xear	Popula-	wet paddy	DEY Peddy	CABBAVA +	Malze +	Coconut	Clove	Rubber	Rice	CARRAVA +	Mater +	Others	granaportad.
6	401,980	370 hA 3.70 toh	0.70 1.50	6, 600 6, 10 40, 260	300 0.95 290	40,000 0.40 16,000	3,500 0.10 350	58,500 - .0.20 11,700	46,240	25,000	5,910	1,810	94,060
- 62	410,020	3-77 3-77 1,390	220 0-70 150	6,860 6.10 41,850	510 0.96 300	40,800 0.40 16,320	3,710 0,10 370	57,330 0.20 11,470	49,200	25,500	6,050	1,850	100,350
.	418,220	370 3.83 2,420	230 0.70 160	7, 140 6.10 43,550	320 1.01 320	41,620 0.40 16,650	3,930 0.10 390	56,180 0.20 11,240	50,190	26,010	6,150	1,680	102,760
79.	426,580	370 3.90 2,440	230 0.70 160	7,420 6.10 45,260	340 1.04 350	42,450 0.40 16,980	4,170 0,10 420	55,060 0.20 11,010	51,190	26,530	6,270	1,920	105,200
- 92 	435,220	370 3.97 1,470	240 0.70 170	050'1* 07'080 07'1	350 1.07 370	43,300 0.40 17,320	4,420 0-10 440	53,960 0.20 10,790	52,220	27,060	6,400	1,960	107,780
186	443,020	370 4.05 1,500	240 0.70 170	6,030 6.10 48,980	360 1.10 400	44,160 0.40 17,660	4,600 0.10 470	52,860 0.20 10,580	53,260	27,610	6,520	2,000	110,440
69 .	452,690	370 4.12 1,520	250 0.70 180	8,350 6.10 50,940	380 1.13 430	45,050 0-40 18,020	4,960 0.10 500	51,820 0.20 10,360	54,320	28,160	6,650	2,040	012,611
¥8.	461,750	370 4.19 2,550	250 0.70 180	8,690 6.10 53,010	390 1.17 460	45,950 0.40 18,380	5,260 0.10 530	50,790 0.20 10,160	55,420	28,720	6,790	2,060	051,011
6.	470,980	370 4.27 1.580	260 0.70 180	9,030 6.10 55,080	410 1.20 490	46,870 0.40 18,750	5,580 0,10 560	49,770 0.20 9,950	56,520	29,290	6,920	2,120	119,050
8	480,400	370 4.34 1,610	260 0.70 180	9,390 6.10 57,280	430 1.24 530	47,800 0.40 19,120	5,910 0.10 590	48,770 0.20 9,750	57,650	29,080	7,060	2,160	011,221
76	010'06*	370 4.42 1,640	270 0.70 190	\$,770 6.10 56,600	1-20 560	48,760 0.40 19,500	6,270 0,10 630	47,800 0.20 9,560	58,800	30,480	7,200	2,210	125,350
. 92	019,004	370 4.50 1,670	270 0.70 190	10,160 6.10 61,980	1.32 1.32 590	49,730 0.40 19,890	6,640 0.10 660	46,840 0.20 9,390	59,980	31,090	7,450	2,250	128,770
а.	509,810	370 4.58 1,690	280 0.70 200	10,570 6.10 64,490	470 1.35 630	50,730 0.40 20,290	7,040 0.10 700	45,910 0.20 9,160	61,180	017,15	7,490	2,290	021,251

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•	
(With Project)	
NIAU	
NVDOTOGADY	
KXN.	

		70	OD CROPS	PS PRODUCTION		CASH CR	CROPS PRODUCTION	UCTION		POD CONS	CONSUMTRION		Bunditan i an 1
Yeer	Popula- tion	Wet paddy	Dry paddy	CABBAVA +	Maize +	Coconut	Clove	xequn	עניפ	Cassava +	Maizo +	Ochers	
18.	401,980	370 ha 3.70 t/ha 1,370 ton	0.720 150 0.7220	6,600 6.10 40,260	300 0.95 290	40,000 0.40 16,000	3,500 0.10 350	58,500 0.20 11,700	48,240	25,000	016'\$	1,810	98,050
82	410,420	3.77 3.77 1.390	0.70 150 150	7,100 6.10 63,510	320 0.98 310	42,130 0.40 16,850	3,710 0.10 370	59,220 0.20 11,840	49,250	25,530	6,030	1,850	102,720
	419,040	370 3.83 1.420	0-70 160 160	7,610 6.10 46,420	350 1.01 350	44,290 0.40 17,720	3,930 0.10 390	59,970 0.20 11,990	50,280	26,060	6,160	1,890	107,480
.84	427,840	370 3.90 2.440	50.50 70 700 70.50 70 700 700 700 700 700 700 70	8,130 6.10 49,590	370 1.04 380	46,450 0.40 18,580	170 0.10 420	60,740 0.21 12,760	51,340	26,610	6,290	1,930	112,950
58	436,820	370 3.97 1.470	0-240	8,470 6.10 \$1,670	390 1.07 420	47,380 0.40 18,950	4,420 0.10 440	59,470 0.21 12,490	52,420	27,170	6,420	1,970	115,770
8	446,000	370 4.05 1,500	0.70 170	6,830 6,10 53,860	400 1.10 440	48,320 0.40 19,330	4,680 0.10 470	58,220 0.21 12,230	53,520	27,740	6,360	2,010	118,780
18.	455, 360	370 4.12 1,520	0, 70	9,200 6.10 56,120	420 1.13 470	49,290 0.40 19,720	4,960 0.10 500	56,990 0.21 11,970	34,640	28,320	6,690	2,050	121,870
	464,930	370 4.19 1,550	0, 70 250 1,80	9,580 6.10 50,440	440 1.17 510	50,280 0-40 20,110	5,260 0.10 530	55,800 0.21 11,720	55,790	28,920	6,830	2,090	125,030
80	474,690	370 4.27 1,580	260 0.70 180	9,990 6.10 60,940	450 2.20 540	51,280 0.40 20,510	5,480 0.10 550	54,630 0.22 12,020	56,960	29,530	6,980	2,140	128,960
°.	484,660	370 4.34 1,610	260 0.70 180	10,410 6.10 63,500	470 1.24 .580	52,310 0.40 20,920	5,910 5,910 5,90	53,480 0.22 11.770	58,160	30,250	7,120	2,180	132,420
ä	494,640	570 4.42 1.640	270 0.70 190	10,840 6.10 66,120	490 1127- 620	53,350 0.40 21,340	6,270 0.10 630	52,360 0.22 11,520	59,380	30,780	7,270	2,230	135,980
8	505,230	370 4.50 1.670	270 0.70 1.190	11,300 6120 62,930	510 1.32 670	54,420 0.40 21,770	6,640 0.10 610	51,260 0.22 11,280	60,630	31,430	7,430	2,270	139,720
2	515,840	370 - 4.58	260-0.70	11,770- 6.10	540 1.15	55,510	7,040 0.10	50,180 0.23		-		-	

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KABUPATEN LAHAT SUPPORT WORK 3 YEARS 1. WITHOUT PROJECT 498,900/1981 2.8 %/annual (1) Population (2) Harvested Area 21,700 ha 2.8 %/annual - food crops a. wet paddy - 4.0 %/annual b. dry paddy 12,600 ha c. cassava + 2.6 %/annual 1,000 ha sweet potato d. maize + soya 6.0 %/annual 3,400 ha been 38,200 ha 6.0 %/annual a. coffee cash crops (3) Yield Rate 1.6 %/annual 4.50 t/ha a. wet paddy - food crops 0.9 %/annual 2.25 t/ha b. dry paddy 0.0 %/annual 5.10 t/ha c. cassava + 2.5 %/annual d. maize + 0.90 t/ha a. coffee 0.55 t/ha 0.0 %/annual - cash crops 2. WITH PROJECT 2.9 %/annual 489,900/1981 (1) Population 21,700 ha 2.8 %/annual a. wet paddy (2) Harvested Area - 1.8 %/annual 12,600 ha b. dry paddy 1,000 ha 2.7 %/annual c. cassava + 6.2 %/annual 3,400 ha d. maize + (3) Yield Rate 4.50 t/ha 1.6 %/annual - food crops a. wet paddy b. dry paddy 2.25 t/ha 0.9 %/annual 0.0 %/annual 5.10 t/ha c. cassava + 0.90 t/ha 2.5 %/annual d. Eaize + 0.0 %/annual 0.55 t/ha - cash crops a. coffee

3. Road condition

area	; rolling area
road surface type	; earth 16.1% gravel (stone) 68.5%
road length	; total 325 Km, supported 255 Km
surface condition	; good 45,4% fair 4.5% poor 22.1% bad 28%

4. Consumption

(1) rice	120.0 Kg/capita annual	
(2) cassava +	62.2 Kg/čapita annual	
(3) maizet	14.7 Kg/capita annual	•
(4) others	4.5 Kg/capita annual	(salt,sugar,pepper, cocking oil)

5. Road Network

(1) national road length	125
(2) provincial road length	260
(3) Kabupaten road length	325 " (255)
(4) Total	710

		POOD CROPS	MOOD CROPS PRODUCTION		CASH CHOPS PRODUCTION		T000 CON	FOOD CONSUMPTION		PRODUCTION TO DE	KOAD. LENCTH
POPULATION	wet paddy	dry paddy	Gassevat	melsot	coffee	rice	CABBAVA+	matza+	ochere	TRANSPORTED	
	21,700 ha	12.600	1,000	007*6	38,200				 :	•	j j
006.864	4.50t/ha	2.25	5.10	0.90	0.55	010	010	7.330	2.230	29,610	100
	27. 65QEER	28.350	1991	000.0	21010	22-21%	××××				
	22, 310	12,420	1,060	3,720	41,540		,				170
513,370	. 25. 4	2.27	5.10	0.92	cc.0			015	010 0	81.360	
	101.940	29,190	943-2	3.420	22.019	61.600	31.430	Acce y	77.04	222	
	22,930	12,250	1,120	4,050	65. 630					·.	
528.260	4.64	2.29	5,10	0.95	0.55			1	004		
	105.400	28.050	5.710	050-0	23,100	000 00	12.860	7.770	2000	N04176	
	23,570	12,080	1.180	4.410	49.570						226
543,580	4 72	2.31	5.10	0.97	0.55					6 87 10	}
	111,250	27,900	6.020	4,280	27,260	63, 230	1 33,810	1 990	007 2	70-2-1	
	24,230	11.910	1,210	4.680	32,640						
550.360	4.70	2,23	5.10	0.00	0.55						2
	116.060	27,750	6.170	4.630	2A.950	. 67.120	34.790	A,220	2,220	95,420	
	24.910	11,740	1,240	4,970	55,910						
373.560	4 87	2.35	5.10	1.02	0.35						222
	121.310	27.590	4.320	5.970	30.750	62.026	33.A00	8.460	2.390	99.750	
	25, 610	11.580	1,280	5,280	59.370					_	*34
542.250	4.95	.2.37	5.10	7.04	0.35			;	1	008 101	}
	126.779	27.440	0.5.0	269	32.650	21.970	26.840	8.710	07.6.2	100.000	
	26.330	11,420	1.310	5.610	63,050			-			244
609,430	5.00	2.40	5.10	1.07	0.53					V 37 BV1	
	121.650	27.430	0.640	000-0-	24.480	201.02	32.910	R 940	2,140	A24 10A1	
	27,060	11,260	1.350	5,960	66,960						į
627,100	5.00	2,42	5.10	1.10	0.55						3
	135.300	27,250	6.AA0	94.4	1 30.830	75.250	10.010	9.220	2.420	111,200	
	27,820	11,100	1,360	6.330	71.120						į
645,290	5.00	2.44	5.10	1.12	0.33						<u>,</u>
	179,100	1 27.040	070.2	7.090	29.120	77.430	071-07	9.490	2,900		
	24.600	10,940	1.420	6,720	75,520		-				284
664,000	5.00	2.46	5.10	1.15	0.55	_					rc ,
	143,000	24.910	7.240	7.739	07-17	79.440	41.300	9.740	2,990	086-211	
	29,400	06/ 10	1.460	7.140	A0.210						
683.250	5.00	2.48	5.10	1.18	0.55						â
	147,000	26,740	7.450	A 430	621120	A1.390	1 42,500	10,040	020.0	120 410	
	30,230	10,640	1,500	7.580	85,180						2
703.070	9.00	2.50	5.10	1.21	0.55						222

XANUPATEN LANAT (Wichout project)

	-	F.	MOOD CROWS PRODUCTION	ODUCTION		PRODUCTION		. 2000 C	rood consumption		er of
がおと		Vet paddy	dry paddy	CARSAVOT	mai kot	coffee	Y1Ce	CARACVAN	matket	ochera	TRANSPOR
	-	21.700 ha	12,600	1.000	007*0	36,200					
1961	000 867	4.50C/ha	2.25	01.0	0.90	0.55					
		1 97.550ton	28.250	, 100	3.000	21.010	59.870	31,030	7.330	2,250	79 610
		22.310	12,100	1,030	3, 600	067'07					
1982	512,670	4.57	2.27	5.10	0.92	0.53					
		101.960	27.470	2.250	016.6	22,270	61.540	006.15	2.540	2,310	R2,260
		22,930	11,610	1,050	3,820	42,920		-		-	
1983	527,230	4.64	2.29	5.10	0.95	0.55	-				
		104.400	26.590	2,360	000.0	23.610	63.270	32.790	7.750	2.370	85 010
		23,570	11,150	1,080	4,050	45.500					
786T	241.990	4.72	2.31	5.10	0.97	0.55		-			_
r I		111.250	25.740	5,5,0	2.230	23,000	65,040	33.710	026.7	2.40	8A 240
		24,230	10,700	1,110	4,290	48,230					
1985	557,170	4.79	2.33	5.10	0.99	0.55					;
	-	116.060	24.930	5,660	4 230	26 530	A6.R60	34.660	A.190	2.510	91.450
		24,910	10,270	1,140	4,550	51,120					
1986	572.770	4.87	2.33	5.10	1.02	0.55					
		121.310	24,130	010.6	4.640	28.120	68, 730	35.630	8,420	2.580	95,040
		25,610	9,860	1.170	4,820	54,190					
1987	588,810	4.95	2.37	5.10	1.04	0.55					
		126,770	2779	979.6	5,010	29.800	20.660	36.620	94640	2,650	980
		26,330	0.470	1,200	5,110-	37.440					
1988	605,290	5.00	2.40	5.10	1,07	0.55					
-		132.650	22.730	1,120	2.420	31,590	72.630	32.020	6.900	2 /20	AC# 201
		27,060	060*6	1.230	5.420	60, 880					
1989	622,240	5.00	2.42	2.10	1.10	0.55					
		132.300	22,000	6.270	0 40	017 CC	74.670	38,700	0510	2,800	104 000
		27,820	0.730	1,260	5,740	64.340	-				
1990	639,660	5.00	2.44	5.10	1.12	0.55					
		139,100	21.200	6.430	6.430	35,500	76.760	39.790	007.6	2,880	107,150
-		28,600	6,380	1,290	6,090	68.410					
1991	657,580	5.00	2.46	5,10	1.13	0.55	_	-			
		143.000	20.610	6.3RQ	7.000	37.630	1 78.910°	40.900	979-8	2,960	109.710
		29,400	070*8	1.330	6,430	72,520					
1992	673.980	5.00	2.48	5.10	1.18	0.55	:				
		147,000	19.940	6.7NO	7.610	068 6C	81,120	42.050	9,940	3.040	112,370
		30,230	7.720	1,360	6,840	76,870					
1993	016.469	- 2*00 -	2.50	01.6	1.11	0.55					
										_	

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KABUPATEN LAMPUNG SELATAN

SUPPORT WORK 3 YEARS.

1. WITHOUT PROJECT

(1) Populatión	1,663,470/1981	3.5 %/annual
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(2) Harvested Area 49,000 ha 2.8 %/annual a. wet paddy - food crops 0 %/annual 30,500 ha b. dry paddy c. cassavatsweet 13,000 ha 0 %/annual potato d. maizetsoya bean 10,100 ha 0 %/annual 3.5 %/annual 71,250 ha a. coffee ~ cash crops 0 %/annual 1,000 ha b. pepper 3.5 %/annual 38,700 ha c. clove 0 %/annual 4,750 ha d. rubber 3.5 %/annual 58,600 ha e. coconut (3) Yield Rate %/annual 4.35 t/ha 1 a. wet paddy - food crops %/annual 2.00 t/ha b. dry paddy 0 %/annual 13.50 t/ha c. cassavat 0 %/annual 2.15 t/ha 0 d. maize + 0.60 t/ha %/annual Ó a. coffee - cash crops %/annual 0.55 t/ha 4 b. pepper %/annual 0.20 t/ha 0 c. clove 0.35 t/ha 0 %/annual d. rubber %/annual 0.45 t/ha 0 e. coconut 2. WITH PROJECT 1,663,470/1980 3.7 %/annual (1) Population (2) Harvested Area 2.8 %/annual 49,000 ha a. wet paddy - food crops

b. dry paddy	30,500 ha	0 %/annual
c. cassavat	13,000 ha	0 %/annual
d. maize +	10,100 ha	0 %/annua1

- cash crops	a. coffee	71,250 ha	3.7 %/annual
	b. pepper	1,000 ha	0 %/annua1
	c. clove	38,700 ha	3.7 %/annua1
	d. rubber	4,750 ha	0 %/annua1
. :	e. coconut	58,600 ha	3.7 %/annual

(3) Yield Rate

- food crops	a. wet paddy	4.35 t/ha	1 %/annual
	b. dry paddy	2.00 t/ha	1.0 %/annua1
	c, cassavat	13.50 t/ha	1.0 %/annua1
	d. maizet	2.15 t/ha	1.0 %/annua1
- cash crops	a. coffee	0.60 t/ha	1 %/annual
	b. pepper	0.55 t/ha	4 %/annual
	c. clove	0.20 t/ha	l %/annual
	d. rubber	0.35 t/ha	l %/annual
	e. coconut	0.45 t/ha	l %/annual

3. Rood condition

area	; flat
road surface type	; earth 0 % gravel (stone) 67.1 %
road length	; 348 Km supported 225 Km
surface condition	; good 71.2% 1.3 poor 18.4, bad 9.1%

4. Road Network

(1)	national road length	38 Km
(2)	provincial road length	432 Km
(3)	Kabupatèn road length	348 Km (225)
(4)	Total	818 Km

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KANUPATEN LANDUNG SULATAN (Michoue Broject)

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										And a lot of the lot o					
-		7060	POOD CROPS PKOD	PKODUCTION			CASH" CRO	CASH" CROPS PRODUCTION	NOLL			FOOD CONSUMPTION	NOTION		PRODUCTION TO BE
YEAR POP	POPULATION	wet paddy		ddy casaava+	mailket	GOCONUT	softee	redded	clove	rubber	r1ce	CARRAVA+	mailyoth	ochera	TRANSPORTED
-[-	1210 17		00.0	13.300	10.100	58,600	71,250	1,000	38,700	4.750		-			
1961 1.6	1.663.470	4 35c/ha	2.00	13.50	2.15	0 43	0.00	0.55	0.20	035		1			101 A4A
		212.1505cm	01-000	125 500	21.720	26.370	42.750	22	7 740	1.669	119.62	103-670	24.420	7.490	144 4.00
		50, 370	30.500	13.000		60,650	074.64	1 000	40,050	4, 750					
1982 1.7	1.721.690	4.39	2.00	13.50	2.15	0.45	0.60	0.57		20			V 10 10	-	005 901
_	_	221 120	61.000	175,500	21.720	27.290	44.240	220	R.010	1 000 1	205 400	107-090			
 		11, 780	30,500	13,000	10.100	62, 770	76,320	1,000	047 17	4.750	•				
1083 1.1	1.781.950	4.44	2,00	1.5	2.15	0.43	0.6	0.59	0	0.35					
	-	229.900	000.14	175.500	21.720	28.250	45.790	965	A. 220	1 440	213,830	213 830 110 840	24.190	R 020	198,090
		53.230	30.500	13,000		046 49	79.000	1,000	42,910	4,730	_			-	
1 1 284	1 844 120	4.48	2.00	13.5		0.43	0.6	0.62	0.2	55.0					
_		278.47D	41.000	175.500		29-240	47.400	520	A 580	1 640	221 320	114 720	27,110	A 300	201.210
		54.720	005.00	13.000		67.240	81.760	1,000	44.410	4,750					
1985 1.5	1.906.870	4.33	2,00	13-5	2.15	0.45	0.0	0.64	0.2	0,35					
		247. AHO	41.000	173,500	21,720	30.260	040.04	079	A ARO	099 1	229 ONO	229,040, 118, 730	24,060	H 590	203,460
 		36.260	30.500	13,000	۰ i	69,600	84.620	1,000	096.64	4,750					
1986 1.	1.975.680	4.57	2.00	5.51		0.45	0.6	0.67	0.2	0.35					
		257.110	61.000	175,500	21,720	31.320	022 04	670	9.190	1.660	237,040	122,890	29,040	968.8	206, 100
		57, HJO	30.500	13.000		72.030	87,580	000	47.370	4.750					
1987 2.(2.044.830	4 62	2.00	13.5		0.45	0.0	0.70	0.2	0.33					
		267,170	61,000	177.500	21.720	32.410	52.530	200	0,0,0	1,640	242.340	127,190	30.040	9,200	2012 200
		59,450	30,500	000.01		74.500	90,450	1,000	49 240	4.730					
1988 2.	2.116.400	4.66	2.00	5.61	2.15	0.45	0.0	0.72	0.2	\$5.9			;	.	004 115
		277.040	41,000	175.200	21.720	012.05	000.30	720	2.430	049	253.970	1.11.140	31, 110	220	0001777
		61,110	30,500	13,000	001'0T	77,170	93, 820	1,000	50,960	4.750					
1989 2.	2,190,470	4.71	2.00	10.5	2.15	0.45	0.0	0.2	0.5	0.35				010 7	000 110
		267,830	41.000	173,500	21, 720	9621-%	202.44	730	10.100	1.460	242,860	1.16 230	32,200	7 200	NUA 1012
-		62, 830	30,500	13,000	10,100	79,470	97,110	1,000	52,740	4,750					
1990 2.	2,267,140	4.75	2.00	13.5	2.15	0,45	0.6	0.78	0.2	0,35			:		
		299.070	61.000	175,200	21, 720	33.940	38.270	047	10.5.0	1.640	272.010	222.040 143.020	010.00	10,200	210.030
-		64,380	30.500	13,000	10,100	82.660	100.310	1,000	54,390	4,750					
1991 2.	2.346,490	18.4	2.00	13.5	2.15	0.45	0.6	0.81	0.2	0.35					
		310.530	41,000	173,000	1.21.720	37.200	A0.010	0 11	10.920	1.660	2,81,540	281.580 145.950	34,490	10, 200	514 417
-		66.390	30,500	13.000	10.100	85.50	104.020	1,000	56,500	4,750					
1092 2.	2.428.620	4.83	2.00	13.5	2.15	0.45	0.6	0.83	0.2	0,35					
			600,14	173,500	21,720	34.500	62 610	A50	11.300	1.660	291,430	201 430 151 069 192	33.700	10,930	222, 640
-		68,250	30.500	13,000	10,100	H0.550	107.660	1,000	58,480	4,750	_				
1993 2.	2,513,620	4.90	2.00	13.5	2.15	0.45	0.0	0.88	0.2	0.35					
											4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

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KANTRATEN TAMPUNG SELATAN (MICh Drojege)

		000	Jag Suaus uvva	PRODUCTION		_	CASH COR	CASH CORD'S PRODUCTION	CTION	-		POOD CONSUMPTION	NOLLTH		L'RUUUCTTON
			-												TO BE
ž	NOTIVITAIOA	wer paddy dry pa		day cansava+	malet	coconuc	coffee	regged	clove	rubber	rice	CABBAVA+		others	TRANSPORTED
	(400.1)	49.000 ha	30,500	13,000	10.100	38.600	71,250	1.000	36,700	4,730					
1981	1.663.470			13.30	2, 13	0.45	0.60	0.53	0.20	0.25					
		213,150500	41,000	175.300	21,720	36.370	42.750	530	7.740	1.000	199-620	103.470	24,450	06.9 Z	194,200
		0/5.05	30.500	13,000	-	60,770	73.890	1.000	40,130	4,750					
1982	1,725,020		2.02	13.64	2.17	0.43	0.61	0.57	0.20	20.33					000 001
		221,120	A1.410	177.320	21,920	27.350	45.070	570	0.0.0	2000	207 200	107-100	000002	Nu/ 1/	172.000
		084.15	30.500	000*01		62,020	76.620	1.000	41,620	4,750					
1983	1.785.840		2:04	12.77	2.19	0.46	0.61	0.59	0,2 0 [.]	0.36					-
		~	42,220	179.010	22,120	28, 290	46.740	3	926.4	1 220	214 640	111,270	26.300	8 030	201, 370
		53.230	30,500	13,000	10,100	65.330	79.450	1,000	43,160	4,730					
7961	1.855.030		2.06	13.91		0.46	0,62	0.62	0.21	0.36					
		•	A2.830	140,430	22.420	30.040	49.260	620	9,040	1 710	222 600	115, 340	27,270	8 330	204, 770
F		54.720	30,500	13,000		67.770	82,390	1.000	44,750	4 750		_			
1985	1.923.760		2.08	14.05		0.47	0.62	0.64	0.21	0.36		-			
			43.440	182, 530		31.830	51,090	.07V	9,400	1.710	230.840	119,650	29,280	9 640	213,560
[56.260	30, 500	13,000	_	70,270	85,440	1,000	46.410	4, 750					
1986	1 994 840		2.10	14.19		0.47	0.63	067	0.21	0.37					
			64.050	1.44.470	22, 430	33.030	53.630	470	9,750	1 760	239.380	239.380 124.080	29.320	8 980	219,010
		57.630	30.500	13,000	001,01	72,870	86,600	1,000	001,84	4,730					
1987	2.068.650		2,12	14.33	2.28	. 0.48	0.64	0, 0	0.21	0.37					
			64,660	186,290	23.030	34.980	56.700	700	10,110	1.760	248,240	128,670	017 00	0.310	225.050
		39,450	30,500	000,01	001 01	75,570	91,880	1.000	016*67	4,730	_				
1988	2,145,190		2.14	14.47	2.31	0.48	0.64	0.72	0.21	0.38				-	
		277.040	65.270	148.110	23.339	25.20	5A. 800	720	10.480	-918-6	257.420	252 420 233,430	31.5.10	0 2 2 0	229.910
		61,110	30,500-	000°C7		78,370	95,280	1.000	51.750	4,750					
1989	2, 224, 560		2.17	14.62	2.33	0.49	0.65	0.75	0.22	c.38					
		~	66.185	190.060	23.530	38.400	61.930	2.50	11.3%	1 810	266 950	138,370	32.700	10,010	236,860
		62,830	30,500	13,000	10,100	81,270	98.810	1.000	53,670	4.750					
1990	2,306,870	_	2.19	92.77	2.35	.67*0.	0.66	0.78	0.22	0.38					
		2	66.900	191.880	23.740	39.820	63.210	780	11.410	1, 810	276 820	276 820 143,490	33,910	10,380	242,740
ĺ		64,380	30,500	13,000	10.100	84.270	102,400	1,000	55.650	4,730					
1991	2,392,230	4.61	2.21	16.91	2.37	0.50	0.66	0.81	0.22	0.39					
		<u>_</u>	67.410	103. 830	23 940	42.140	47.420	018	12,240	1.830	287.070	287.070 148.800	32.170	10,770	248.910
		66,390	30,500	13.000	10,100	87,390	106,260	000	57,720	4, 750					<u>.</u>
1992	2,480,740		2.23	15.0	2.40	0.50	0.67	0.85	0.22	0.39	-				
		٠.	68.020	195.000	24.240	41,700	71,190	A30	12.700	1.830	297,690	154.200	36.470	11.160	254.940
		68,230	20,500	13,000	10,100	90,620	110,190	1,000	59.830	4,730					-
1993	2,572,530	4.90	2.25	13.0	2.42	10-01	0.68	0.88	0.23	60.0					
									_						

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KAB. MANGGARAI

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ì.	Without Project				
	(1) Population	385,020/181	1.7 %/annual		
-	(2) Harvested Area				
	o food crops	 a. wet paddy b. dry paddy c. cassava + sweet potato d. maize + soya bean + 		5.5 2.9	%/annual %/annual %/annual %/annual
	o cash crops	a. coffee b. coconut	12,500 ha 7,700 ha	10	
	(3) Yield Rate				
	o food crops	a. wet paddy b. dry paddy c. cassava + d. paize +	2.70 t/ha 0.35 t/ha 1.70 t/ha 0.70 t/ha	0 0 0 0	%/annual %/annual %/annual %/annual
	o cash crops	a. coffee b. coconut	0.20 t/ha 0.40 t/ha	0 0	\$∕annual \$∕annual
2.	With Project				
	(1) Population	385,020/'81	1.8 %/annual		
	(2) Harvested Area				
	o food crops	a. wet paddy b. dry paddy c. cassava +) 6 years d. maize +} 10 %	24,000 ha 23,100 ha 10,400 ha 27,200 ha	5.5 3.0	\$/annual \$/annual \$/annual \$/annual
	o cash crops	a. coffee) 6 years b. coconut) 10 %	12,500 ha 7,700 ha	10 4.2	%/annual %/annual
	(3) Yield Rate				
-	o food crops	a. wet paddy b. dry paddy c. cassava + d. maize +	2.70 t/ha 0.35 t/ha 1.70 t/ha 0.70 t/ha	0 0 0 0	%/annual %/annual %/annual %/annual
	o cash crops	a. coffee b. coconut	0.20 t/ha 0.40 t/ha	0 0	%/annual %/annual
3.	Road Condition				
•	. Area;	rolling			
-	Road surface type	earth 65.1 % gravel (s	tone) 33.7 %		

.Area;	rolling
Road surface type;	earth 65.1 % gravel (stone) 33.7 %
Road length;	total 408 Km supported 332 Km.
Surface condition;	good 60.9%, fair 1.5%, poor 14.8%, bad 22.8%.

4. Consumption

(1) rice	120 Kg/capita annual	
(2) cassava +	62,2 Kg/capita annual	
(3) maize +	14,7 Kg/capita annual	
(4) others	4,5 Kg/capita annual	(salt, sugar, pepper, etc.).
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	Road Network	
• :	(1) National road length	310 Km
•	(2) Provincial road length	25 Km
	(3) Kabupatèn road length	408 Km (332)
	(4) Totàl	743 Km
•	en al de la companya	

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KARUDATEN MANGGARAI (Without Project)

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Wet Dirg Camework - I Marge - I Constrat Catego wat Allow Catego wat Allow A				1000 CKOPS	PRODUCTION		CASH CROPS	CROPS		FOOD CONSI	CONSUMPTION		Production to be
35.000 21.000 10.400 27.200 7.700 23.000 46.200 3.000 46.200 3.000 46.200 3.000	4	rion -	wet peddy	Dry paddy	+	Masze + .		Coffee	Rice		Madize +	Others	Transported.
35,130 24,370 1,700 27,860 9,020 1,770 5,740 5,740 5,740 5,740 5,740 5,760	3	365,020	24,000 ha 2.70 c/ha 64,800 con			27,200 0.70 19,040	7,700 0.40 3,080	12,500 0.20 2,500	46,200	23,950	5,660	1,730	28,850
386.220 24,700 11,010 29,120 34.70 11,700 29,120 24,700 24,700 24,700 5,860	5	391.570	25,320 2,70 68,360	24, 370 0. 35 0. 530		27,660 0.70 19,360	8,020 0.40 3,210	13,750 0.20 2,750	46,990	24,360	5,760	1,760	27,730
464,990 28,130 11,130 28,610 3,130 28,610 3,130 48,600 5,950	83	398,220	26,710 2.70 72,120	25,710 0.35 9,000	11,010 1.70 18,720		8,360 0.40 3,340	15,125 0.20 3,020	47,790	24,770	5,850	1,790	30,430
41.080 23,730 24,550 1,760 29,160 1,760 29,160 1,760 20,030 1,700 0,030	4	404,990	28,180 2.70 76,090	27,120 0.35 9,490		28, 610 0.70 20,030	8,710 0.40 3,480	16,640 0.20 3,330	48,600	25,190	5,950	1,820	34,000
JI,770 JS,190 12,000 29,660 9,460 20,130 50,270 6,33 a4,700 J0,570 20,400 2,700 0,35 1,700 6,33 6,130 6,130 6,160 6,160 a4,700 J1,800 11,930 21,070 9,860 7,2140 5,1500 6,260 6,260 6,160 a26,000 31,060 12,170 31,010 21,070 3,940 4,430 5,1200 6,360 6,480 a26,010 31,060 12,700 21,070 30,490 11,760 21,070 3,940 5,130 6,130 a26,010 35,450 11,700 21,700 21,700 21,700 21,700 26,930 6,130 a40,610 21,730 0,170 31,130 10,700 31,990 25,740 6,130 a5,130 35,450 11,700 0,170 21,700 21,700 26,790 5,300 5,300 5,300 5,300 a5,130 11,130 27,	5	411,000	29,730 2.70 80,270	28,620 0.35 10,020		29,100 0.70 20,370	9,080 0.40 3,630	16,300 0.20 3,660	49,430	25,620	6,050	1,850	018,76
426,000 31,000 32,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000 31,000	8	410,880	31,370 2.70 84,700	30,190 0.35 10,570		29,660 0.70 20,760	9,460 0.40 3,780	20,130 0:20 4,030	50,270	26,050	6,160	1,880	41,900
433,240 34,910 33,600 12.700 30,610 0.700 0.700 24,950 51,790 51,790 51,990 20,300 6,370 6,370 54,950 5,370 6,370 6,370 51,990 20,700 51,990 20,700 51,990 26,950 6,370 6,370 5,450 11,760 31,130 0.700 21,790 21,990 21,410 6,480 6,480 21,410 6,480 21,410 21,410 6,480 6,480 21,410 6,480 21,410 6,480 21,410 6,480 21,410 6,480 21,410 6,480 21,410 6,480 21,410 21,410 21,410 21,4	87.	426,000	33,090 2.70 82,340	31,850 0.35 11,150		30,100 0.70 21,070	9,860 0.40 3,940	22,140 0.20 4,430	51,120	26,500	6,260	1,920	46,190
440.610 36,830 35,450 13,700 31,130 10,700 26,700 27,410 6,430 270 0.35 1.70 0.70 0.40 5.360 52,870 6,430 99,440 37,400 37,450 31,450 31,150 23,50 5350 57,410 6,430 448,100 36,600 37,400 13,450 31,650 11,150 29,470 5,3970 57,410 6,430 448,100 32,700 37,400 13,450 31,150 24,450 53,770 27,410 6,430 448,100 37,700 37,460 32,1390 11,620 32,420 5,370 5,590 455,710 2,700 39,460 13,460 32,130 11,620 32,420 5,390 5,770 5,390 455,710 2,700 31,620 32,130 11,620 32,420 5,360 5,730 6,490 455,710 2,700 31,620 32,130 35,650 5,530 6,490	3	433,240	34,910 2.70 94,260	33,600 0.35 11,760		30,610 0.70 21,430	10,270 0.40 4,110	24,360 0.20 4,870	51,990	26,950	6,370	1,950	50,840
446,100 38,860 37,400 13,450 31,660 11,150 25,470 6,590 6,700 6,590 6,700 6,590 6,700 6,700 6,700 6,700 6,700 6,700 6,700 6,700 6,700 23,400 110,700 13,810 13,710 14,650 34,650 6,700 23,700 6,700 23,700 6,700 24,600 6,700 23,700 6,700 23,700 23,700 23,700 23,700 23,700 23,700 23,700 23,700 24,600 6,700 6,700 23,700 23,700 23,700 24,600 6,700	83		36,830 2.70 99,440	35,450 0.35 12,410		31,130 0.70 21,790	10,700 0.40 4,280	26,790 0.20 5,360	52,870	27;410	6,480	1,980	55,770
435,710 41.000 39,460 13,960 32,190 11,620 32,420 6,700 435,710 2.70 0.35 1.70 0.70 0.40 0.20 6,480 54,600 28,350 5,700 453,460 13,7810 23,530 22,330 4,650 6,480 54,600 28,350 6,700 453,460 13,740 12,110 35,650 6,480 54,600 28,350 6,700 453,550 41,630 14,240 32,740 12,110 35,650 28,350 6,700 451,630 0.35 1.70 0.70 0.40 0.20 55,620 8,700 451,630 14,570 24,210 22,920 4,640 7,130 55,620 28,830 6,810 45,630 45,630 14,570 33,210 12,620 39,210 6,930 5,930 5,930 5,930 5,930 5,930 45,1340 2.700 0.12,620 39,210 12,620 29,330 5,930 5,930 5,930 5,930 5,930 45,1340 2.7130 <td>8</td> <td></td> <td>36,860 2.70 104,920</td> <td>37,400 0.35 13,090</td> <td></td> <td>31,660 0.70 22,160</td> <td>11,150 0.40 4,460</td> <td>29,470 0.20 5,890</td> <td>\$3,770</td> <td>27,870</td> <td>6,590</td> <td>2,020</td> <td>61,040</td>	8		36,860 2.70 104,920	37,400 0.35 13,090		31,660 0.70 22,160	11,150 0.40 4,460	29,470 0.20 5,890	\$3,770	27,870	6,590	2,020	61,040
463,460 41,630 14,540 32,740 12,110 35,660 6,810 6,810 463,460 0.35 1.70 0.70 0.40 0.20 6,810 6,810 116,780 14,570 24,210 22,920 4,840 7,130 55,620 80,830 6,810 45,630 43,920 14,660 33,300 12,620 36,230 6,810 6,810 45,630 43,920 14,660 33,300 12,620 36,230 6,930 6,930 471,340 2.700 0.35 0.700 0.400 0.200 55,560 6,930 6,930	16		41,000 2.70 110,700	39,460 0.35 13,810		32,190 0.70 22,530	11,620 0.40 4,650	32,420 0.20 6,480	54,690	28,350	6,700	2,050	\$6,660
471,340 2.70 43,920 14,660 33,300 12,620 39,230 2.70 0.35 1.70 0.40 0.20 12,310 24,00 2.20 29,320 6,930 6,930	8	463,460	43,250 2.70 116,780	41,630 0.35 14,570		32,740 0,70 22,920	12,110 0.40 4,840	35,660 0.20 7,130	55,620	26,830	6,810	2,090	72,660
	8	· · · ·	45,630 2.70 123,200	43,920 0.35 15,370		33,300 0.70 23,310	12,620 0.40 5,050	39,230 0.20 7,850		29,320	6,930	2,120	79,060

KANUPATTIN MANGGARAT (WIEh Drojage)

WEC DCy Commune Males Locol of the state Constant Locol of the state Constant Locol of the state Locol of the state <thlocol of="" t<="" th=""><th>1</th><th></th><th>O#</th><th>1000 CXOD2</th><th>PRODUCTION</th><th></th><th>CADH CROPS</th><th>. Saond</th><th></th><th>TOOD CONSI</th><th>CONSUMPTION</th><th></th><th>Production to be</th></thlocol>	1		O#	1000 CXOD2	PRODUCTION		CADH CROPS	. Saond		TOOD CONSI	CONSUMPTION		Production to be
136.000 27,000 77,300			wet paddy	Dry paddy		.Malko +		Colfee	Rice		Maire +		Tranaported.
23.1.310 3.5.70 1.0.64 2.8.10 1.3.60 1.3.10 <th1.3.10< th=""> <th1.3.10< th=""> <th1.3.10< <="" td=""><td>81</td><td></td><td>24,000 ha 2.70 t/ha 64,800 ton</td><td>64</td><td>10,400 1.70 1.7,680</td><td>27,200 0.70 19,040</td><td>7,700</td><td>12,500</td><td>46,200</td><td>23,950</td><td>5,660</td><td>1,730</td><td>28,850</td></th1.3.10<></th1.3.10<></th1.3.10<>	81		24,000 ha 2.70 t/ha 64,800 ton	64	10,400 1.70 1.7,680	27,200 0.70 19,040	7,700	12,500	46,200	23,950	5,660	1,730	28,850
399,000 25,710 21,730 21,300 26,100 27,200 24,600	62	1 <u> </u>	25,320 2,70 · 68,360	24, 370 0.35 0.530	10,840 1.70 18,430	28,140 0,70 19,700	8,150 0,40 3,260	13,960 0.20 2,790	47,030	24,300	5,760	1.760	27,980
M 466,100 39,140 31,140	3		26,710 2.70 72,120	25,710 0.35 9,000	11,380 1.70 19,350	29,100 0.70 20,370	8,620 0,40 3,450	15,550 0.20 3,110	47,880	24,820	5,870	1,800	30,580
13,500 29,700 29,700 29,700 29,700 29,700 29,700 21,000<	5	406,190	28,140 2.70 76,090	27,120 0.35 9,490	11,680 1.70 20,200	30,030 0.70 21,020	9,050 0.40 3,620	17,260 0.20 3,450	48,740	25,270	5,970	1,830	34,260
6 21,770 30,190 12,930 21,00 21,170 20,190 12,930 21,170 21,190 43,137 7 23,700 20,370 1,1460 21,700 20,700 20,190 1,190 43,137 7 53,090 31,460 21,900 10,450 21,300 30,190 1,190 45,130 8 35,060 31,1460 23,090 0,460 21,300 50,510 6,410 1,990 45,560 8 36,620 33,660 31,560 23,090 11,560 23,090 31,560 21,300 50,510 45,560 51,300 50,510 45,560 51,300 <td>65</td> <td></td> <td></td> <td>28,620 0.35 10,020</td> <td>12,400 1.70 21,080</td> <td>31,020 0.70 21,710</td> <td>9,590 0.40 3,840</td> <td>19,130 0.20 3,830</td> <td>49,620</td> <td>25,720</td> <td>6,080</td> <td>2,860</td> <td>38,050</td>	65			28,620 0.35 10,020	12,400 1.70 21,080	31,020 0.70 21,710	9,590 0.40 3,840	19,130 0.20 3,830	49,620	25,720	6,080	2,860	38,050
1 137,000 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 11,450 27,900 26,650 6,430 11,930 46,550 51,120 51,120	8		31,370 2.70 84,700	30,190	12,930 1.70 21,980	32,010 0.70 22,410	10,100 0.40 4,040	21,170 0.20 .4,230	50,510	26,180	6,190	1,890	42,170
16 34,230 34,230 33,560 11,060 25,730 0.45 0.20 0.20 0.20 0.20 0.21 0.21	6			31,850 0.35 11,150	, 13,460 ,1,70 ,22,880	32,990 0,70 23,090	10,630 0.40 4,250	23,390 0.20 4,650	51,420	26,650	6,300	1,930	46,550
10 35,630 35,450 14,060 35,630 35,450 14,060 27,630 55,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,560 5,500 5,742	8		34,910 2,70 94,260	33,600 0.35 11,760	13,860 1.70 23,560	33,580 0.70 23,510	11,080 0.40 4.430	25,730 0.20 5,150	52,350	27,130	6,410	1,960	51,100
00 38,860 37,400 14,710 34,800 12,030 31,140 21,20 0.70	8		36,630 2.70 92,440	33,450 0.35 12,410	14,200 1.70 24,280	34,190 0.70 23,930	11,540 0.40 4,620	26,310, 0.20 5,660		27,620	6,530	2,000	57.420
11 460,220 11,000 19,460 15,150 0,70 0,10 0.15 1.70 0,15 1.70 0,10 0.15 1.70 0.16 0.16 0.120 0.170 21,070 2.070 2.070 6.770 2.070 6.816 12 460,220 110,700 13,810 24,800 5.010 6,830 59,630 6,770 2.070 66.816 12 468,500 13,600 36,070 13,660 37,680 7.340 56,220 29,140 6,890 2,110 72,796 12 468,500 14,670 37,680 7.340 56,220 29,140 6,890 2,110 72,796 146,790 146,780 14,400 5,220 13,4140 5,890 2,114 7,010 2,130 7,130 146,930 21,730 26,570 36,720 13,4140 5,890 21,140 7,010 2,130 7,140	8		38,860 2.70 104,920	37,400 0.35 13,090	14,710 1.70 25,010	34,800 0,70 24,360	12,030 0.40 4,810	31,140 0.20 6,230	\$4,250	28,120	6,650	2,030	61,230
2 468,500 13,550 1.70 0.70 13,060 37,660 0.70 21,060 37,660 27,660 27,560 27,560 27,560 27,560 27,560 27,560 27,560 27,500 27,500 27,570 72,730 72,730 29,140 6,890 2,110 72,730 72,730 13 476,930 23,630 15,070 36,720 13,610 41,440 5,610 5,130 2,130 7,9140	2		41,000 2.70 110,700	39,460 0.35 13,810	15,150 1.70 25,760	35,430 0,70 24,800	12,530 0,40 5,010	34,250 0.20 6,850	55,230	28,630	6,770	2,070	66,810
476,930 43,630 15,070 36,720 13,610 41,440 476,930 2.70 0.10 0.70 0.40 0.20 2.150 21,70 21,70 2,700 5,440 0.20 26.670 7,010 2,150	20	· .	43,250 2.70 116,780	41,630 0.35 14,570	15,600 1.70 26,520	36,070 0.70 25,250	13,060 0.40 5,220	37,680 0.20 7,540	56,220	29,140	6,890	2,110	72,790
	ğ		45,630 2.70 123,200	43,920 0.35 15,370	16,070 1.70 27,320	36,720 0.70 25,700	13,610 0.40 5,440	41, 440 0, 20 8, 290	\$7,230	26,670	010,7	2,150	79,140

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KAB. BOL. MONGONDOW

1.	Without Project
	www.enderstandord.com/anderstandord.com/anderstandord.com/anderstandord.com/anderstandord.com/anderstandord.com

	(1) Population	308,570/'81	4.0 %/annual		
	(2) Harvested Area				
	o food crops	ă. wêt paddy b. dry paddy c. cassava + sweêt potato d. maize + soya bean +	23,300 ha 6,800 ha 2,300 ha 33,200 ha	4.5 %/ 2.0 %/ 1.5 %/ 6.0 %/	annual annual
	o cash crops	a. coffee b. clove c. coconut	1,350 hà 3,300 ha 37,200 ha	2.0 %/ 8.0 %/ 1.0 %/	annual
	(3) Yield Rate				
	o food crops	a. wet paddy b. dry paddy c. cassava + d. maize +	3.8 t/ha 1.5 t/ha 7.0 t/ha 1.2 t/ha	0 %/ 1 %/	'annual 'annual 'annual 'annual
	o cash crops	ă, coffee b, clove ^c , coconut	0.6 t/ha 0.05 t/ha 0.85 t/ha	7 8/	/annual /annuàl /annual
2.	With Project				
	(1) Population	308,570/'80	4.2 %/annual		
	(2) Harvested Area				
	o food crops	a. wet paddy b. dry paddy c. cassava+) 6 years d. maize+) 10 %	23,300 ha 6,800 ha 2,300 ha 33,200 ha	2.0 % 1.6 %	/annual /annual /annual /annual
	o cash crops	a. coffee 6 years 10% b. clove c. coconut 6 years 10%	1,350 ha 3,300 ha 37,200 ha	8.0 %	/annual /annual /annual
	(3) Yield Rate				
	o food crops	a. wet paddy b. dry paddy c. cassava + d. raize +	3.8 t/ha 1.5 t/ha 7.0 t/ha 1.2 t/ha	0 %	/annual /annual /annual /annual
	o cash crops	a. coffee b. clove c. coconut	0.6 t/ha 0.05 t/ha 0.85 t/ha	7 %	/annual /annual /annval

3. Road Condition

Area	rolling
Road surface type;	earth 57.6 % gravel (stone) 31.0 %
Road length;	total 591 Km supported 474 Km
Surface condition;	good 45.1%, fair 5.5%, poor 17.9%, bad 31.5%.

B3-17

4. Consumption

(1)	rice	120	Kg/capita	annual
(2)	cassava +	62,2	Kg/capita	annual
(3)	maize +	14,7	Kg/capita	annual
(4)	others	4,5	Kg/capita	annua 1

(salt, sugar, pepper, cocking oil etc.).

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5. Road Network

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- (1)	National road length	225,9	Km	
(2)	Provincial road length	97,8	Km	
(3)	Kabupaten road length	591,0	Km	(474)
(4)	Total	914,7	Kra	

XNAUPATTAN NOL. MONGONDOW (WILLHOUR Project)

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		К.	TOOD CROPS	S PRODUCTION		CASH CRO	NOLTODOOR SACK	NOIL:		TOOD CON!	NORLANDSNOO		Production to be
Year	Popular tion	wet peddy	Dery peddy	Cassava +	Maire +	Coconut	Coff	clove	Rice	Cassava +	Malze +	Others	Transported.
T0.	308,570	23,300 ha 3.80 t/ha 88,540 ton	6,600 1.50 10,200	2,300 7.00 16,100	33,200 1.20 39,840	37,200 0.85 31,620	1,350 0.60 810	3,300 0.05 170	37,030	19,190	4,540	1,390	108, 320.
20,	320,910	24,350 3.80 92,530	6,940 1.50 10,410	2,330 7.07 16,473	35,190 1.22 42,930	37,570 0.87 32,690	1,380 0.60 830	3,560 0.05 180	38,510	19,960	4,720	1,440	114,460
69.	333,750	25,440 3.90 96,670	7.070 1.50 10,610	2,370 7,14 16,920	37,300 1.25 46,630	37,950 0.88 33,400	1,400 0.60 840	3,850 0.06 230	40,050	20,760	4,910	1,500	120,870
- 97 7	347,100	26,590 3.80 101,040	7,220 1.50 10,830	2,410 7.21 17,380	39,540 1.27 50,220	36,330 0.90 34,500	2,430 0.60 860	4,160 0.06 250	41,650	21,590	5,100	1,560	127,700
sa.	360,980	27,790 3.80 105,600	7,360 1.50 11,040	2,440 7.25 17,760	41,910 1.30 54,480	38,710 0.90 34,840	1,46 0,66 0,00 0,00 0,00	4,490 0.07 310	43,320	22,450	5,320	2,620	134,630
98.	375,420	29,040 3.80 110,350	7,510 1.50 11,270	062'81 56"4 089'2	44,430 1.32 58,650	39,100 0,90 35,190	1,490 0.60 890	4,850 0.07 340	45,060	23,350	5,520	7,690	141,510
40.	390,440	30,340 3.80 115,290	7,660 1.50 11,490	2,510 7.43 18,650	47,090 2.35 63,370	39,490 0.90 35,540	1,520 0.60 910	5,240 0.08 420	46,860	24,290	5,740	1,760	149,340
88.	406,060	51,710 5.60 120,500	7,810 1.50 11,720	2,550 7.50 19,130	49,920 1.36 68,890	39,680 0.90 35,090	2,550 0.60 930	5,660 0.08 450	48,730	25,260	5,970	1,830	157,620
68.	422,300	33,130 3.80 125,690	7,970 1.50 11,960	2,590 7.56 19,630	52,920 1.41 74,620	40,280 0.90 36,250	1,580 0.60 950	6,110 0.09 550	50,680	26,270	6,210	1,900	166,470
°¢.	439,190	34,630 3.80 131,590	8,130 1-50 12,200	2,630 7,66 20,140	56,090 1.43 80,210	40,690 0.90 36,620	1.610 0.60 970	6,600 0.09 530	\$2,700	27,320	6,460	2, 980	175,350
76.	456, 760	36,180 3.80 137,480	8,290 1.50 12,440	2,670 7.73 20,640	59,460 1.46 86,810	41,090 0.90 36,980	1,640 0.60 980	7,120	54,810	28,410	6,710	2,060	185,300
• 92	475,030	37,810 3.80 143,680	8,450 2.50 12,680	2,710 7.81 21,170	63,020 1.49 93,900	41,500 0.90 37,350	1.670 0.60 1.000	7,690 0.11 850	57,000	29,550	6,980	09 1.40	196,120
£6.	494,030	39,510 3.80 150,140	8,620 1.50 12,930	2,750 7.89 21,700	66,800 1.52 101,540	41,920 0.90 37,730	1,700 0.60 1,020	8,310 910 920	59,280	30,730	7,260	2,220	207,480

KARUDATTRN ROL. MONCONDOW (WLED Project)

		ľ	TOOD CROPS	S PRODUCTION	:	CASH CRO	CASH CROPS PRODUCTION	CTION		TOOD CON	CONSUMPTION	·	
Year	Popula- tion	Wet paddy	Dry paddy	CASSENT +	Maleo +	Coconut	Cottee	cleve	Alce	Cassava +	Maize +	Others	Transported
76.	308,570	23.300 he 3.80 t/he 80,540 ton	6,800 1.50 10,200	2,300 7,000 16,100	33,200 1,20 39,840	37,200 0.85 31,620	1,350 0.60 810	3,300 0.05 170	37,030	19,190	4, 540	1,390	108,320
- 02 -	321,530	24,350 3.60 92,530	6,940 1.50 10,410	2,380 7,07 15,830	35,840 2.22 43,720	39,290 0.87 33,230	1,400 0.60 840	3,560 0.05 280	36,580	20,000	4,730	1,450	045,211
sø.	335,030	25,440 3.80 96,670	7,070 1.50 20,610	2,450 7.14 17,490	38,620 1.25 40,280	39, 190 0.86 34, 490	1,440 0,60 860	3,850 0.06 230	40,200	20,040	4,920	1,510	122,900
79.	349,110	26,590 3.80 101,040	7,220 1.50 10,830	2,530 7.21 18,240	41,540 1.27 52,760	40,290 0.90 36,270	1,500 900 900	4.160 0.06 250	41,090	21,710	5,130	1,570	130,810
- 36	363,770	27,290 3.80 105,600	7,360 1.50 11,040	2,610 7.28 19,000	44,600 1.30 57,980	41,190 0.90 37,070	1,550	4,490 0.07 310	43,650	22,630	5,350	1,640	138,810
sa.	379,050	22,040 3.80 110,350	7,510 2.50 21,270	2,690 7.35 19,770	47,830 1.32 63,240	42,200 0.90 37,980	1.600 0.60 960	4,850 0.07 340	45,490	23,580	5,570	.014'T	146,830
20.	394,970	30,340 3.80 015,290	7,660 1.50 11,490	2,760 7.43 20,510	51,220 1.35 69,150	43,210 0,90 38,890	1,650 990	5,240 0,08 420	47,400	24,570	s, alo	1,780	155,860
\$ 0.	411,550	31,710 3.80 120,500	7,810 1.50 11,720	2,800 7.50 21,000	54,450 1.38 75,140	43,640 0,90 39,280	1,680 0.60 1,010	5,660 0.08 0.08 0.08 0.08	49,390	25,600	6,050	1,850	264,720
ç0.	428,040	53,130 3.80 125,890	7,970 1.50 11,960	2,650 7.58 21,600	57,860 1.41 81,610	44,080 0.90 39,670	1,720 0.60 1,030	6, 110 0, 05 550 0, 05	51,460	26, 670	6,300	1,930	011, 771
°°.	446,850	34,630 3.80 131,590	8,130 1,50 12,200	2,890 7-66 22,140	61,520 1,43 87,970	44,520 0.90 40,070	1,750 0.60 1,050	6,600 590 590	\$3,620	27,790	6,570	2,020	163,590
۲۵.	465,620	36,160 3.80 137,480	8,290 1.50 12,440	2,940 7.73 22,730	65,400 2,460 95,480	44,960 0,90 40,460	1,790 0.60 1,070	7,120 0.10 710	55,870	28,960	6,840	2,100	194,340
192	485,180	37,810 3.80 143,680	8,450 1,50 12,680	2,990 7.61 23,350	69,520 1.49 103,580	45,410 0.90 40,870	1,820 0.60 1,090	7,690 0.11 850	58,220	30,180	7,130	2,180	205,840
£6.	505,550	041,021 08.5 05,200	8,620° 1.50° 12,930	3,040 7.89 23,990	73,900 1.52 112,330	45,870 0.90 41,280	2,860 0.60 1,120	8,310 0.11 910	60, 670	60; 670° - 31°, 450	7,430	2,270	218,060

KABUPATEN BONE

(1) Population	616,100/1981	0.3 %	annua1
(1) Population	,		
(2) Harvested Area			
- food srops	a. wet paddy	88,400 ha	4 %/annual
	b. dry paddy	6,900 ha	0 %/annual
	c. cassavat	4,900 ha	0 %/annual
	d. maizetsoya bea	an 89,100 ha	0 %/annual
- cash crops	a. coconut	105,000 ha	1 %/annua)
(3) Yield Rate	·		
- food creps	a. wet paddy	3.75 t/ha	3 %/annua
-	b. dry paddy	1.55 t/ha	2 %/annua
	c. cassavat	4.75 t/ha	4 %/annua
	d. maizet	0.60 t/ha	2 %/annua
- cash crops	a. coconut	0.50 t/ha	0 %/annua
2. WITH PROJECT			
(1) Population	616,100/1981	0.9 Z	/annual
(2) Harvested area			
- food crops	a. wet paddy	88,400 ha	4.2 %/annua
	b. dry paddy	6,900 ha	0.6 %/annua
	c. cassavat	4,900 ha	0.6 %/annua
	d. naize+	89,100 ha	0.6 %/annua
- cash crops	a. coconut	105,000 ha	l %/annu

(3) Yield Rate	-		
- food crops	a, wet paddy	3.75 t/ba	3 .2 %/ annual
	b. dry paddy	1.55 t/ha	2.1 %/annual
•	c. cassava l	4.75 t/ha	4.2 %/annual
	d. maizet	0.60 t/ha	2.1 %/annual
- cash crops	a. coconut	0.50 t/ha	0 %/annual

3. Rood Condition

area	; flat
road surface type	; earth 24.1 % gravel (stone) 70.1 %
road length	; 312 Km supported 295 Km
surface condition	; good 44.7%; fair 5.2%, poor 29.9%
`	bad 20.2%

4. Rood Network

(1) national road length	0 Km
(2) provincial road length	309 Km
(3) Kabupatèn road length	312 Km (295)
(4) Total	621 Km

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KANUPATRN RONR C wich project)

		<u></u>	FOOD CROPS PRODUCTION	CODUCTION		PRODUCTION					
NAX.	POPULATION		ubbar int			COCONCE	riae	CassaVat	maine +	- othere	TIMNSPORTED
		Let pady	dry pagey								
		88,400 ha	6,900	4.900	89,100	105,000					
1961	616,100	3.75c/he	1.55	4.73	0.60	0.50				-	
1		1 331. 500ten	10.700	23 240	53,460	32,500	006 02	022.40	000 6	21.10	744 400
		92,110	6.940	4,930	89.630	106,050					
1982	621,640	3.87	1.58	4.93	. 0.61	0.50					
		029,936	10.970	24.400	54.670	52.020	74.600	38.670	9,140	2,800	022-870
		95,980	6,980	096**	90,170	011.701					
1983	627.240	3.99	1.62	3.26	0.63	0.50					-
		787.940	010.11	25.590	56.810	23.560	75.270	39.010	9.220	2.620	174.970
		100,010	7,020	066*7	90,710	106.180					
1984	632,880	4.12	1. 05	5,37	0.64	0.50				-	
-		412.040	11.540	24,800	54,050	24, 090	75,950	39.370	9,300	2.850	403,020
		104,210	7,070	5,020	91,260	109,260					
1985	\$38.580	4.25	1.68	5.60	0.63	0.50					
	-	442 890	11.880	24,110	59,320	1 34.530	76.630	39,720	9.390	2.870	432.690
-		108,590	7,110	5,030	01%'16	096,011		_			
1986	055,444	4.39	1.72	5.83	0.67	0.50					
		476,710	12.230	29.440	012.10	25,189	77.320	A0.080	0 4 20	2,900	002 000
		113,150	7,150	3,080	92,360	111,460					
1987	650,130	4.53	1.76	6,08	0,68	0.50					
	_	512,570	12.580	70,890	52.800	- 052 - 55	78,020	077 07	9 260 9 560	2,930	0/ 0/ 0/
_		117,900	7,200	011.5	92,910	112.520					
1988	655,980	4.68	1.79	6.34	0.69					0.00	
		551, 770	12,490	52,400	44,110	-	74,720	00H 07	070 0	064.3	702-200
		122.860	7.240	5,140	93,470	004,611					
1989	661,880	4.82	1.63	6.60	0.71	0.50				600 6	
		592,190	13,250	33,920	AA, 360	56.850	79.430	41,170	N:7:X	AUX 19	~~~~~~~~~~~
		128,020	7,280	5,170	000,40	114,840					
1990	667.840	4,98	1.87	6.88	0.72	0.50				010 a	
		637,540	13,610	35.570	67,700	7 420	80,140	67776	7.720	7775	001 170
		133,390	7,230	5,200	94,590	115,990					
1661	673,850	5.00	1.91	7.17	0.74	0.50					
ļ		666,950	13,810	37.280	70,000	58,000	80,840	41.910	9-910	3,030	620.460
		138,990	000,7	5,230	95,160	021.711					
1992	679,910	5.00	1,95	7.47	9.75	0.50					
		694,950	14,290	39,070	21.370	34.540	A1.590	42,290	000	3 040	677.510
	•	028° 147	077"4	5.260	95.730	118,320					
1993	686,030	5.00	1.99	7.78	0.77	<u>8</u>					
			•					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

KANUTATTAN NONT (Without project)

maixe + coconuc 99,100 105,000 99,100 105,000 99,100 105,000 99,100 105,000 99,100 105,000 99,100 105,000 99,100 105,000 99,100 105,000 99,100 105,110 99,100 105,110 99,100 108,180 99,100 108,180 99,100 108,180 99,100 108,180 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 99,100 111,400 91,00 111,400		100	FOOD CROPS PRODUCTION	OUCTION		CANN CORUS		FOOD CONSUMPTION	LION		PRODUCTION
Mail Francy Mail <	NOLIVIANOA		1		matsa +	COCONUC	7100	CARANA+	maire+	othere	THANSPORTED
A16.100 88,400 h 6,900 4,700 6,100 105,100 73,570 93,400 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 93,500 94,500 93,500 94,500 93,500 93,500 94,500 93,500		WEL PAGGY	UTY PHOUY								
4.15 4.75 0.60 0.40 71,900 3,786/m 11.36 53,400 59,100 106,050 71,900 3,46 10,900 4,900 96,100 106,050 71,900 3,46 10,900 4,900 96,100 10,10 75,610 70,610 4,900 97,100 10,11 75,610 7,100 11,11 5,14 0,62 0,30 99,440 6,700 4,700 10,110 27,000 109,100 109,100 821,600 3,78 1,11 5,14 0,62 0,30 0,30 821,600 4,900 4,900 89,100 109,200 109,200 823,400 11,190 27,240 71,000 109,200 0,30 823,400 10,11 11,190 2,700 89,100 110,300 823,400 4,01 11,190 2,700 89,100 110,400 823,400 4,01 11,190 2,720 9,4030 0,50 <td></td> <td>88.400 ha</td> <td>6,900</td> <td>006 7</td> <td>69,100</td> <td>105,000</td> <td></td> <td></td> <td></td> <td></td> <td></td>		88.400 ha	6,900	006 7	69,100	105,000					
111.100.cm 10.100 27.280 37.460 32.300 91.940 0.900 4.900 97.100 107.110 91.940 1.138 4.04 0.61 0.50 91.940 1.143 5.100 107.110 91.410 1.141 5.124 95.200 107.110 10.111 1.1<51	616,100	3.75c/he	1.55	4.75	0.60	0.50					000
N1,940 0,900 4,900 99,100 106,050 617,950 35,4100 10,500 2,5,210 25,120 0.50 95,610 6,900 2,000 35,010 0,10 101,110 0.50 95,610 5,900 5,900 2,900 99,100 108,190 0.50 99,440 6,900 4,900 99,100 108,190 0.50 621,660 31,01 1,64 0.50 2,900 8,900 99,100 109,260 621,650 4,700 11,11 5,70 77,020 74,020 0.50 621,650 4,700 99,100 100,360 0.50 2,90 0.50 621,640 4,71 1,56 5,12 0.50 0.50 0.50 621,640 4,75 1,71 5,70 91,00 100,30 0.50 621,640 4,700 1,11 5,70 0.65 0.50 0.50 0.50 0.50 621,640 1,11,15		231, 5005en	10.700	23.240	057-65	32.500	27.920	28.220	000	2,770	707 477
11.7 1.96 1.94 0.61 0.30 95.610 5,900 26.210 26.230 25.030 95.610 6,900 26.210 26.200 23.030 95.610 6,900 4,900 95,100 10.110 95.610 1.01 21.00 19.10 13.10 95.610 1.01 21.10 25.190 95,100 105.10 97.440 0,900 4,900 85,100 109.200 0.50 97.440 1,1320 5.13 0.65 0.50 25.30 621,660 4.10 11,320 5.16 97.00 109.20 625,400 4.05 5.36 9.06 0.65 0.65 627,270 4.75 11.12 5.78 9.100 110,260 627,200 4.75 1.71 5.78 9.400 0.50 627,200 4.75 1.11 5.79 9.400 10.12 627,200 1.171 5.78 0.45		076.16	6,900	4,900	89,100	106,050					
334,800 10,800 24,300 10,800 24,300 10,10 24,300 10,10 24,300 10,10 24,300 10,110 24,300 10,110 24,300 10,110 21,400 89,100 10,110 21,300 21,200 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 21,300 20,300 <td>417 050</td> <td>9. R.</td> <td>1,38</td> <td>4.94</td> <td>0.61</td> <td>0.30</td> <td></td> <td></td> <td></td> <td></td> <td></td>	417 050	9. R.	1,38	4.94	0.61	0.30					
95,610 6,900 4,900 89,100 101,110 5,14 0,62 0,50 101,100 5,14 0,62 0,50 10,50 10,50 10,50 10,50 0,50 0,50 0,50 10,50 0,50 10,50 0,50 10,50 0,50 10,50 0		154. 490	10.900	24,210	54, 320	53,030	74.159	3A,440	9, ONO	2.7R0	00C*/9C
619,800 3.94 1.61 5.24 0.62 0.50 99,440 6,700 4,900 89,100 108,180 621,660 4.10 1.64 5.34 0.50 621,660 4.10 1.64 5.36 0.50 108,180 621,660 4.10 1.66 5.36 0.50 109,260 623,530 4.25 1.1,190 27,220 14,000 100,360 623,500 4.25 1.1,190 27,220 27,020 10,050 623,630 4.7,60 6,900 4,900 89,100 110,60 623,500 4.35 1.71 5.76 27,320 25,00 623,500 4.50 6,900 4,900 89,100 111,400 623,200 4.61 1.71 5.76 26,00 25,00 623,200 4.41 1.71 5.78 0.50 0.50 623,200 1.11,850 1.71 5.78 0.50 623,200 2.64,90		019-00	6.900	4.900	89,100	107.110					
Max. and the state Max. an	000 011		14.1	5.14	0.62	0.50					
MULTO CLANC CLANC <th< td=""><td></td><td></td><td></td><td>007.94</td><td>090 18</td><td>13.360</td><td>74.380</td><td>34,550</td><td>9,110</td><td>2,790</td><td>371,680</td></th<>				007.94	090 18	13.360	74.380	34,550	9,110	2,790	371,680
621,660 4,110 1,66 5,34 0,64 0,50 621,550 407,700 11,120 25,470 11,120 0,102,260 623,550 407,700 11,120 5,900 4,900 89,100 109,260 623,550 4,550 1,150 5,900 4,900 89,100 110,360 623,500 4,07,800 11,900 27,240 89,100 110,360 623,500 4,07,800 1,171 3,78 0.66 0.55 623,200 4,07,800 1,17 3,78 0.66 0.56 623,200 4,07 1,17 3,78 0.66 0.56 623,200 4,07 1,17 3,78 0.66 0.56 623,200 4,07 1,17 3,760 3,5,70 0.56 623,200 4,010 116,300 6,900 4,900 9,100 111,460 623,200 4,010 1,178 0.69 6,900 4,900 9,100 114,800 <tr< td=""><td></td><td>211, 220</td><td></td><td>000 Y</td><td></td><td>104-180</td><td></td><td></td><td></td><td></td><td></td></tr<>		211, 220		000 Y		104-180					
621,660 4.10 1.64 3.34 0.64 0.54 407,700 11,320 25,170 7,020 44,000 407,750 6,900 4,900 89,100 109,260 623,400 4.25 11,590 27,240 7,920 44,600 111,850 6,900 4,900 89,100 110,360 9.50 623,400 4.35 1.71 5.78 0.66 9.50 111,850 6,900 4,900 89,100 111,460 111,850 6,01 0.68 0.66 9.66 111,850 6,01 0.690 4,900 89,100 111,460 629,160 1,173 6.01 0.690 4,900 9.50 111,650 2.9,450 1,12 9.500 111,400 111,600 2.9,450 0.690 4.01 0.50 110,040 4.61 1.73 6.01 0.690 0.50 110,040 4.61 1.73 6.51 0.51<		744.05	207.0						-		
407,700 11,120 26,170 77,020 75,020	621,660	4.10	1,64	3.34	79.0	0,30	;			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	398,780
103.420 6,900 4,900 89,100 109,260 4.25 1.66 5.36 0.65 0.30 4.25 1.00 11,900 27,240 57,920 34,600 107.550 6.900 4,900 89,100 110,360 0.50 623,400 4.75 6.900 4,900 89,100 111,460 111.850 6.900 4,900 89,100 111,460 0.50 111.850 6.900 4,900 89,100 111,460 0.50 111.850 6.900 4,900 89,100 111,460 0.50 111.850 6.900 4,900 89,100 112,570 0.50 116.330 9,900 9,600 4,900 112,570 0.50 116.330 6,900 4,900 89,100 112,570 0.50 116.330 6,900 4,900 89,100 112,570 0.50 556,160 53,6,90 12,590 0.50 0.50 0.50 0.50 <td>i</td> <td>407,700</td> <td>13.220</td> <td>26.120</td> <td>17,020</td> <td>2000 75</td> <td>74.500</td> <td>220</td> <td></td> <td>200</td> <td></td>	i	407,700	13.220	26.120	17,020	2000 75	74.500	220		200	
623,530 4.25 1.68 5.36 0.65 0.30 107.550 6.900 4.900 89,100 110.360 0.50 107.550 6.900 4.900 89,100 110.360 0.50 625,400 4.35 1.71 5.78 0.50 0.50 627,270 4.48 1.71 5.78 0.65 0.50 111.650 6,900 4,900 89,100 111.460 0.50 111.650 6,900 4,900 89,100 111.460 0.50 111.650 6,900 4,900 89,100 111.460 0.50 629,160 4.61 1.78 6.01 0.50 0.50 629,160 4.51 29,420 89,100 112.70 0.50 631,040 4.51 7.420 81.23 0.50 0.50 629,160 1.23 8.23 0.65 0.50 0.50 631,040 4.51 7.50 8.100 112.70 0.50 </td <td></td> <td>103.420</td> <td>9,900</td> <td>006 7</td> <td>89, 100</td> <td>109,260</td> <td></td> <td></td> <td></td> <td></td> <td></td>		103.420	9,900	006 7	89, 100	109,260					
475,420 11,90 27,240 57,920 94,570 10,360 623,400 4.950 6.900 4.900 89,100 110,360 0.50 623,400 4.55 1.71 5.78 0.66 0.50 0.50 627,270 4.48 1.71 5.78 0.66 0.50 0.50 627,270 4.48 1.73 6.01 0.60 89,100 111,400 627,270 4.48 1.73 6.01 0.69 89,100 111,400 627,270 4.48 1.73 6.01 0.69 0.50 0.50 629,160 4.900 4,900 89,100 112,570 0.50 0.50 629,160 1.73 6.25 0.69 0.50 0.50 0.50 631,040 4.950 4.900 89,100 112,700 0.50 0.50 631,040 4.900 4.900 89,100 114,840 0.50 0.50 629,480 1.83 6.50	013 104	4.22	1.68	5.56	0.65	0.10			_		
107.350 6.900 4.900 89,100 110.360 623.400 4.7.460 1.71 5.78 0.66 0.50 111.650 6.900 4.900 89,100 111.400 0.50 627.270 4.48 1.73 5.01 0.65 0.50 111.400 627.270 4.48 1.73 5.01 29.450 89,100 111.400 629,160 4.61 1.73 5.01 6.900 4.900 89,100 111.400 629,160 4.61 1.73 6.01 6.06 0.50 0.50 629,160 4.61 1.78 6.23 0.65 0.65 0.50 629,160 4.900 6.9100 4.900 89,100 113.700 631,040 4.76 0.72 0.50 0.50 0.50 631,040 4.900 6.9100 4.900 89,100 114.800 631,040 1.253 31.270 31.270 31.270 0.51.00 114.800		007-907	11.500	27.240	57,920	54.630	74. 120	38, 780	9,170	2, 810	420,640
623,400 4.35 1.71 5.78 0.66 0.50 627,270 4.45 1.73 6.01 89,100 111,460 111,650 6,900 4,900 89,100 111,460 0.50 627,270 4.48 1.73 6.01 0.66 0.50 629,160 4.61 1.78 6.25 0.65 0.50 629,160 4.61 1.78 6.25 0.65 0.50 629,160 4.61 1.78 6.25 0.65 0.50 629,160 4.61 1.78 6.25 0.65 0.50 629,160 4.78 6.25 0.65 0.50 0.50 631,040 4.78 6.50 4.900 89,100 114,840 631,040 4.890 4.900 89,100 114,840 0.50 623,930 613,200 4.900 89,100 114,840 0.50 624,830 1.85 6.50 0.72 0.50 50.50 <tr< td=""><td></td><td>107 550</td><td>006 9</td><td>7 900</td><td>89,100</td><td>110,360</td><td></td><td></td><td></td><td></td><td></td></tr<>		107 550	006 9	7 900	89,100	110,360					
627,270 11,650 1,750 2,370 95,810 21,460 11,460 21,200 4,900 89,100 112,570 0.50 25,220 25,230 21,270 20,450 6,12,20 0,500 25,230 25,230 20,450 21,270 21,270 21,270 21,270 21,270 21,270 21,270 21,270 0,500 21,420 0.500 25,420 611,040 4,750 1,182 6,500 4,900 89,100 114,840 0.50 <td< td=""><td></td><td></td><td></td><td></td><td>0.66</td><td>0.50</td><td></td><td></td><td></td><td>-</td><td></td></td<>					0.66	0.50				-	
$m_{17, m_{10}}$ $m_{112, m_{12}}$ $m_{112, m_{12}}$ $m_{112, m_{12}}$ m_{12} $m_$	007.029	0.0	· · · ·		AP AID	55,180	75.050	3A_900	061.0	2,810	456,590
627,270 1.11,630 0,700 0,100 0,100 0,100 0,100 0,100 0,112,570 629,160 4.6L 1.73 6.01 0.68 0.50 55,720 629,160 4.6L 1.73 6.25 0.690 4,900 89,100 112,570 629,160 4.6L 1.73 6.25 0.69 89,100 112,700 631,040 4.75 1.82 6.50 0.70 0.50 76,290 631,040 4.75 1.82 6.50 0.70 0.15 700 631,040 4.75 1.82 6.50 0.70 0.36 720 631,040 4.89 1.82 6.76 0.72 0.50 0.50 610,050 1.82 6.76 0.72 0.50 0.50 53,420 6135,060 1.82 7.00 89,100 114,840 0.50 53,420 6136,050 4.500 4.900 89,100 114,500 53,420		0.01/104	202 1			111.460					
627,270 4.48 1.73 6.01 0.08 0.08 0.08 0.09 12,086 59,100 112,570 53,230 116,330 4.61 1.78 6.25 0.69 0.50 13,270 236,280 1.78 6.25 0.69 89,100 112,770 53,230 256,280 12,280 5,900 4,900 89,100 112,700 0.50 576,590 12,550 1,850 6,900 4,900 89,100 112,700 576,690 1,850 6,900 4,900 89,100 114,840 0.50 576 1,25,930 4.590 6,76 0.72 0.50 0.50 623,930 4.590 4,900 89,100 114,840 0.50 5.420 623,4830 5.00 1.85 7.03 0.72 0.50 5.420 654,4830 1.550 1.850 6.76 0.72 0.50 5.420 654,4830 5.000 4,900 89,100 <	• •	DCS.III	006.00	004.4	ANT 40						_
501.090 12.089 29.450 6.25 6.290 89,100 115.370 629.090 4.01 1.78 6.25 0.69 0.50 0.50 256.280 5.900 4,900 8,100 112.70 0.50 0.50 120.980 6,900 4,900 89.100 112.70 0.50 0.50 576.280 12.580 1.82 0.50 89.100 112.70 0.50 576 574 1.82 0.50 89.100 114,840 0.50 623,930 4.89 1.85 0.76 0.72 0.50 0.50 623,930 4.89 1.85 6.76 0.72 0.50 0.50 624,830 1.85 6.76 0.72 0.50 0.50 0.50 634,830 5.00 4,900 89,100 114,840 0.50 634,830 1.85 7.03 0.73 0.740 9.50 634,830 5.00 1.90 89,100 117,	627,270	4.48	1.73	6.01	0.68	0.50	-	000 00	0 220	2.820	007"687
116,330 6,900 4,900 89,100 112,570 0.29,160 4.01 1,78 6.25 0.69 0.50 356,280 12,280 30,430 4,100 112,700 120,980 6,900 4,900 89,100 112,700 576,280 12,550 12,550 12,550 13,000 13,000 574,660 12,550 11,850 6,100 114,840 631,040 4.990 89,100 114,840 631,040 4.990 89,100 114,840 623,930 6,900 4,900 89,100 114,840 623,930 6,900 4,900 89,100 114,840 623,830 1.85 6.76 0.72 0.50 634,830 5.00 1.85 6.76 0.72 634,830 5.00 1.95 7.03 0.73 634,830 5.00 1.90 89,100 117,130 634,830 5.00 1.90 89,100 117,130 634,830 5.00 1.90 89,100 117,130 634,830 5.00 1.90 89,100 117,130 634,850 5.90 1.90 99,100 117,130		201.090	12,049	29 4 50	10.290	22.22		X4224 2.4			
629,160 4.61 1.78 6.25 0.69 0.50 536,280 120,980 6,900 4,900 89,100 113,700 631,040 4.75 1.82 0.50 0.70 0.50 576,280 1.82 0.50 0.70 0.50 0.50 574,660 12,590 1.859 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 624,830 1.85 5.70 114,840 0.50 634,830 5.00 4,900 89,100 114,840 654,830 5.00 4,900 89,100 117,130 654,830 5.4450 7.03		116.330	9,900	7 900	89,100	112.570					
536,280 12,280 30,630 61,480 554,280 556,280 6,900 6,900 89,100 113,700 0.50 1.81 0.50 1.81 0.50 <th< td=""><td>629,160</td><td>4.61</td><td>1.78</td><td>6.25</td><td>0.69</td><td>0.50</td><td></td><td></td><td></td><td>-</td><td>\$23,012</td></th<>	629,160	4.61	1.78	6.25	0.69	0.50				-	\$23,012
120,980 6,900 4,900 89,100 113,700 531,040 4.75 1.82 0.50 0.70 0.50 574,660 12,590 1,850 0.70 0.50 0.50 125,820 6,900 4,900 89,100 114,840 0.50 623,930 4.89 1.485 6.76 0.72 0.50 623,930 4.89 1.83 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 624,830 6,900 4,900 89,100 114,840 634,830 5.00 1.30,000 89,100 115,990 634,830 5.00 1.50 7.03 0.70 0.50 636,740 5.00 13,040 7.91 0.75 0.50 636,740 5.00 13,050 117,150 0.50 0.50 636,740 5.00 13,00 13,00 13,00 13,05 0.50 638,650		536,280	12 280	20.630	61 480	56, 290	75, 500	32.430	V62-Y	7000	
631,040 4.75 1.82 6.50 0.70 0.50 974,660 12.540 71.850 6.900 4.900 89,100 114,840 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 6.76 0.72 0.50 623,930 4.89 1.85 7.03 0.72 0.50 624,830 5.00 12.870 33,120 6.400 89,100 113,990 634,830 5.00 1.89 7.03 0.73 0.50 0.50 654,850 13,040 34,450 6.900 4,900 89,100 117,130 656,740 5.00 1.93 7.31 0.75 0.50 5.60 659,450 13,600 1.93 7.31 0.75 0.50 636,740 5.00 1.93 7.31 0.75 0.50 639,450 1.93 </td <td></td> <td>120,980</td> <td>6,900</td> <td>4.900</td> <td>89,100</td> <td>115,700</td> <td></td> <td></td> <td></td> <td></td> <td></td>		120,980	6,900	4.900	89,100	115,700					
576,660 12,550 31,850 62,370 36,590 125,820 6,900 4,900 89,100 114,840 623,930 4,89 1.85 6.76 0.72 0.50 623,930 4,890 89,100 114,840 0.50 57,420 0.50 623,930 6,132,260 12,85 6.76 0.72 0.50 53,420 130,830 6,900 4,900 89,100 113,990 53,420 634,830 5,900 4,900 89,100 113,790 53,420 654,130 12,640 34,450 54,000 89,100 117,130 636,740 5,000 1,950 7,31 0.75 0.50 636,740 5,000 1,950 7,31 0.75 0.50 636,740 5,000 1,33,20 117,130 0.50 6.50 636,650 5,000 1,33,20 14,300 89,100 116,320 638,650 5,000 1,07 39,100 <td< td=""><td>070.159</td><td>4.75</td><td>1.82</td><td>6.50</td><td>0.70</td><td>0.50</td><td></td><td></td><td></td><td></td><td>450 720</td></td<>	070.159	4.75	1.82	6.50	0.70	0.50					450 720
123,320 6,900 4,900 89,100 114,840 623,930 4.89 1.85 6.76 0.72 0.50 613,260 12,770 33,120 64,150 135,430 634,830 5.00 1.89 6.703 0.72 0.50 634,830 6,900 4,900 89,100 115,990 0.50 634,830 5.00 1.89 7.03 0.73 0.50 634,830 6,900 4,900 89,100 117,136 636,740 5.00 13,040 34,450 6.900 137,136 636,740 5.00 1,320 7.31 0.75 0.50 636,740 5.00 1,320 37,320 0.50 1.17,136 636,740 5.00 1,320 37,320 0.50 1.18,320 638,650 5.00 1,07 7.60 0.76 0.50		574.660	12.550	31.850	62.370	36,850	75.220	39,250	9.280	2.540	
623,930 4.89 1.85 6.76 0.72 0.50 113,280 12,00 12,120 12,120 51,420 120,830 6,900 4,900 89,100 113,990 634,830 5.00 13,040 34,450 63,040 634,830 6,900 4,900 89,100 113,990 634,830 5.00 13,040 34,450 63,040 636,740 5.00 13,040 89,100 117,130 636,740 5.00 13,320 35,820 0.50 636,450 6,900 4,900 89,100 117,130 636,740 5.00 13,320 35,820 0.50 638,50 5.00 13,320 99,100 116,320 638,650 5.00 1.97 7.60 0.76 0.50		125,820	6,900	4,900	89,100	114,840					
(13, 200 (12, 770 (13, 120) (4, 150) (51, 420) 100,850 6,900 4,900 89,100 115,990 654,830 5.00 1.89 7.03 0.73 0.50 654,830 5.00 13,040 34,450 63,040 117,150 636,740 5.00 13,040 4,900 89,100 117,150 636,740 5.00 13,320 7,31 0.75 0.50 636,740 5.00 13,320 35,820 6,900 4,900 89,100 117,150 638,740 5.00 13,320 35,820 6,900 4,900 89,100 117,150 638,50 5.00 13,320 35,820 6,900 4,900 89,100 116,320 638,650 5.00 1,07 7.60 0.76 0.50 13.05	623, 930	4.89	1.85	6.76	0.72	0,50					0
130,830 6,900 4,900 89,100 115,990 634,830 5.00 1.89 7.03 0.73 0.50 634,830 5.00 13,040 34,450 67.000 93,000 634,830 5.00 13,040 34,450 67.000 93,000 636,740 5.00 1,93 7.31 0.75 0.50 636,740 5.00 1,93 7,31 0.75 0.50 636,740 5.00 1,93 7,31 0.75 0.50 638,740 5.00 1,93 7,31 0.75 0.50 638,650 5.00 1,97 7.60 0.76 0.50		615,260	12.770	33.120	64 150	57.420	73.950	39.370	8 9 38	2,830	2004 540
624,830 5.00 1.69 7.03 0.73 0.30 136,090 13,040 34,450 63,000 23,000 136,090 6,900 4,900 89,100 117,130 636,740 5.00 1,93 7.31 0.75 0.50 636,740 5.00 1,93 7.31 0.75 0.50 636,740 5.00 1,93 7.31 0.75 0.50 636,740 5.00 1,93 7.31 0.75 0.50 638,740 5.00 1,93 7.31 0.75 0.50 638,740 5.00 1,93 7.50 39,100 116,320 638,50 5.00 1,97 7.60 0.76 0.50		130,850	6,900	006 7	89,100	115,990				•	
654,250 13,040 34,450 63,000 13,040 34,450 63,000 117,150 636,740 5.00 1.93 7.31 0.75 0.50 636,740 5.00 1.93 7.31 0.75 0.50 636,740 5.00 1.93 7.31 0.75 0.50 636,740 5.00 1.93 7.31 0.75 0.50 638,740 5.00 1.3320 39,820 60,430 38,380 638,650 5.00 1.97 7.60 0.76 0.50	634.830	5.00	1.89	7.03	0,73	0.50		-			012 919
136,090 6,900 4,900 89,100 117,130 636,740 5.00 1.93 7.31 0.75 0.50 680,450 13,320 35,820 65,960 58,380 141,530 6,900 4,900 89,100 118,320 5.00 1.97 7.60 0.76 0.50		654.250	13,040	34.450	65.040	38,000	76.180	29.490	9 310	2,460	242-000
636,740 5.00 1.93 7.31 0.75 0.50 680,450 13,320 35,820 65,830 58,390 58,320 58,320 141,530 6,900 4,900 89,100 116,320 6.50 4,900 0.76 0.50		136,090	9:60	006.7	89,100	117,150					
680,450 13,320 39,820 66,830 58,500 51,820 51,820 51,520 51,950 51,520	446 740	5-00-	1.93	16.7	0.75	0.50	•		1		
141.530 6,900 4,900 89,100 118.320 638,650 5.00 1.97 7.60 0.76 0.50		680.450	13.320	35.820	66,830	58.580	76.410	39,610	092 6	1 2,870	007 700
638,650 5.00 1.97 7.60 0.76 0.50		141.530	906 9	4,900	89,100	118,320					
	628.650	5.00	1.97	7.60	0.76	0.50			,		
202 40 11 500 37.240 67.720 59.160			11.500	37.240	67 720	59.160	76.640	19 720	9.390	2.870	688.270

KAB. BUTON

1.	Without Project				
	(1) Population	307,050/'81	0.2 %/annual		
	(2) Harvested Area				
	o food crops	a, wet paddy b. dry paddy c. cassava + sweet potato d. maize + soya bean +	-	7 7 2 4	%/annual %/annual %/annual %/annual
	ó cásh cróps	a. coffée b. coconut	750 ha 9,300 hà	2 1	%/annual %/annual
	(3) Yield Rate				
	o food crops	a. wet paddy b. dry paddy c. cassava + d. maize +	3.0 t/ha 1.4 t/ha 5.9 t/ha 0.7 t/ha	0 0 5 0	%/annual %/annual %/annual %/annual
	o cash crops	a. coffee b. coconut	0.25 t/ha 0.65 t/ha	0 0	\$/annual \$/annual

2. With project

(1)	Population	307,050/'81	0.21 %/annual		
(2)	Harvested Area				-
	o food crops	a. wet paddy b. dry paddy c. cassava +) 6 years d. maize +) 10 %	3,500 ha 6,700 ha 24,000 ha 32,500 ha	7 2.1	%/annual %/annual %/annual %/annual
	o cash crops	a. coffee) 6 years b. coconut) 10 %	750 ha 9,300 ha	2 1	%/annual %/annual
(3)	Yield Rate				
	o food crops	a. wet paddy b. dry paddy c. cassava + d. maize +	3.0 t/ha 1.4 t/ha 5.9 t/ha 0.7 t/ha	0	%/annual %/annual %/annual %/annual
	o cash crops	a. coffee b. coconut	0.25 t/ha 0.65 t/ha	0 0	%/annual %/annual

3. Road Condition

Area;	flat
Road surface type:	earth 40.5 \$ gravel (stone) 49.1 \$
Road length;	total 580 Km supported 405 Km
Surface condition;	good 22.9%, fair 0.2%, poor 10.8%, bad 66.1%.

4. Consumption

(1)	rice	120	Kg/cápita annuál	
(2)	cassava +	62,2	Kg/capita annual	
(3)	maize +	14,7	Kg/capita annual	
(4)	others	4,5	Kg/capita annual	

5. Road Network

- (1) National road length
- (2) Provincial road length
- (3) Kabupatén róad léngth 580 Km (405)
- (4) Total

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KUNUPATRIN AUTON (Without Project)

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		Ř	TOOD CROPS	CROPS PRODUCTION		NEVO	NOLTOUCH		FOOD CONSUMPTION	NOLTON		production to De
Year	Popula-	wet peddy	Drry paddy	Canaava +	Makze + .	Coconut	Coffee	R1.00	CassaVa +	Matzo +	Others	Tranaported.
10.	307,050	3,500 ha 3.0 t/ha 10,500 ton	6,700 1.4 9,380	24,000 5.9 141,600	32,500 0.7 22,750	9,300 0,65 6,050	0.25 2.25 2.90	36,850	19,100	4,510	2,300	סבג,ניג
÷ 82	307,660	3,750 3.0 11,250	7,170 1.4 10,040	24,480 6.20 151,780	33,800 0.7 23,660	9,390 0.65 6,100	770 0.25 190	36,920	19,240	4,520	2,380	163,430
C8.	308,280	4,010 3.0° 12,030	7,670 1.4 10,740	24,970 6.50 162,310	35,150 0.7 24,610	9,490 0.65 6,170	780 0.25 200	36,990	19,170	4,530	1,390	194,130
48.	308,900	4,290 3.0 12,870	8,210 1.4 11,490	25,470 6,83 173,960	36,560 0,7 25,590	9,580 0.65 6,230	0 2200 2000 2000	37,070	19,210	4,540	1,390	205,880
şe.	309,510	4,590 3.0 13,770	8,780 1.4 12,290	25,980 7.17 186,280	30,020 0.7 26,610	9, 680 0. 65 6, 290	810 250 200	37,140	19,250	4,550	1,390	218,270
ະ ເ	051.015	4, 210 3.0 14, 730	9,400 1.4 13,160	26,500 7.53 199,550	39,540 0.7 27,680	9.770 0.65 6.350	830 0.25 210	37,220	19,290	4,360	1,400	231,910
6.	957.0IC	5,250 3.0 15,750	10,050 1.4 14,070	27,030 7.91 213,810	41,120 0.7 28,790	9,870 0.65 6,420	840 0.25 - 210	37,290	19,330	4,570	1,400	245,880
99.	072, LLC'	5,620 3.0 16,860	10,760 1.4 15,060	27,570 8.30 228,830	42,770 0.7 29,940	9,970 0.65 6,480	860 0.25 220	37,360	19,370	4,580	1,400	260,870
69.	212,000	6,010 3.0 18,030	11,510 1.4 16,110	28,120 8.72 245,210	44,480 0,7 31,140	10,070 0.65 6,550	880 0.25 220	37,440	19,410	4,590	1,400	277,200
<u>8</u> .	312,620	6,430 3.0 19,290	12,320 1.4 17,250	28,680 9.15 262,420	46,260 0.7 32,380	10,170 0,65 6,610	0-25 0.25	37,510	19,450	4,600	1,410	294,290
3	313,250	4,890 3.0 20,670	13,180 1.4 18,450	29,260 9.61 281,190	48,110 0.7 33,680	10,270 0.65 6,680	910 0.25 230	37,590	19,480	4,600	1,410	312,920
. 92	313,870	7,370 3.0 22,110	14,100. 1.4 19,740	29,840 10.09 301,090	50,030 0.7 35,020	10,360 0.65 6,750	0.25 230	37,660	19,520	4,610	1,410	332,590
£6.	314,500	7,880 3.0 23,640	15,090 1.4 21,130	30,440 10.59 322,360	52,030 0.7 36,420	10,480 0.65 6,810	950 0.25 240	37,740	19,560	4,620	1,410	353,580

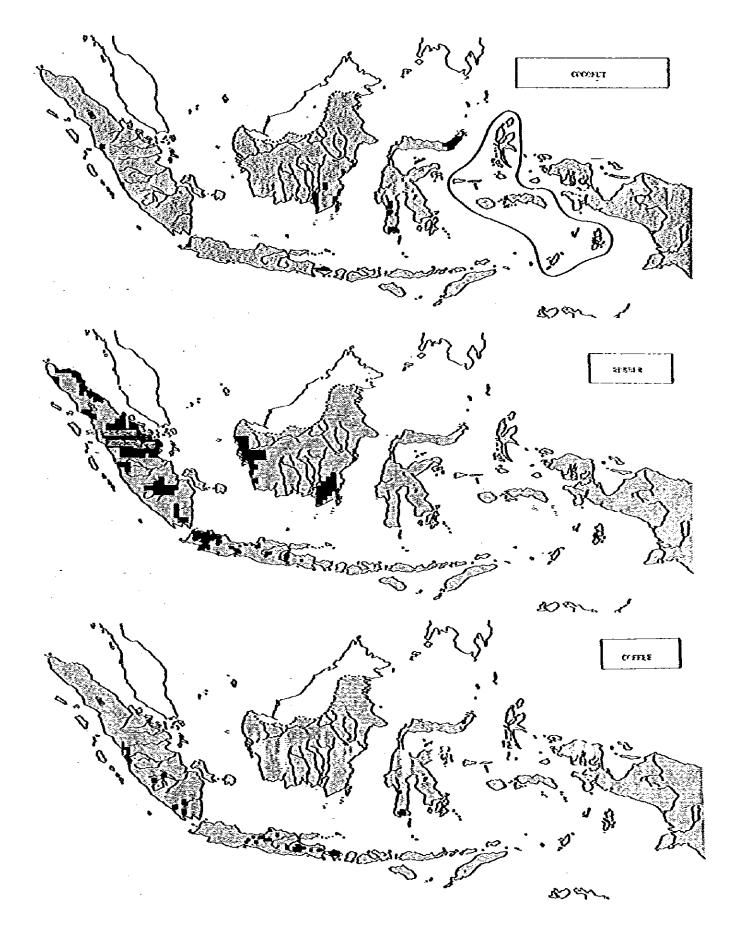
KARUPATTN AUTON (WACh Project)

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	an lime	04	FOOD CROPS	PRODUCTION		CASH CROPS PRODUCTION	NOH		FOOD CONSUMPTION	NOILAWO		Production to be
X00X	r.ton	wet pardy	Dry paddy	Cassava +	Maire +	Çoqonut	Coffee	R100	Cassava +	Maizo +	Othere	Tranaported.
to.	307,050	3,500 he 3.0 t/he 10,500 ten	6,700 1.4 9,380	24,000 5.9 141,600	32,500 0.7 22,750	9,300 0.65 6,050	750 0.25 190	36,850	19,100	4,510	1,380	173,120
60 •	207,690	3,750 3.0 11,250	7,170 1.4 10,040	24,500 6,21 152,140	34,410 0.7 24,090	4,550 0.65 6,210	0.25 200 200	36,920	19,140	4,520	1,380	164,340
çe.	308,340	4,010 3.0 12,030	7,670 1.4 10,740	25,020 6.54 163,630	36,370 0.7 25,460	9,800 0.65 6,370	0.25 200	37,000	19,160	4,530	1,390	196, 300
- 07	306,990	4,290 3.0 12,870	8,210 1,4 1,490	25,540 6.89 175,970	38,390 0.7 26,870	10,050 0.65 6,530	0-25 210	37,000	19-220	4,540	1,390	209,480
92	309,640	4,590 3.0 13,770	8,780 1.4 12,290	26,080 7.25 189,080	40,480 0.7 28,340	10,300 0.65 6,700	860 25 220	37,160	19,260	4,550	1,390	223,240
98.	310,290	4,910 3.0 14,730	9,400 2.4 13,160	26, 630 7.64 203, 450	42,630 0.7 29,840	10,550 0,65 6,860	6,25 220 220	37,230	19,300	4,560	1,400	236,180
40.	310,940	5,250 3.0 15,750	10,050 1.4 14,070	27,190 8.04 218,610	44,850 0.7 31,400	10,800 0.65 7,020	0.25 23 0 23 0	57,310	29,340	4,570	1,400	253,930
88 •	955,115	5,620 3.0 16,860	10,760 1.4 15,060	27,760 8.47 235,1130	46,730 0.7 32,710	10, 910 0, 65 7, 090	940 0,25 240	37,390	19,380	4,580	1,400	270,690
60,	.312,250	6,010 3.0 18,030	11,510 1.4 16,110	28,340 8,92 252,990	48,700 0.7 34,090	11,020 0.65 7,160	0.25 240 0	37,470	19,420	4,590	1.410	288,390
<u>8</u> .	312,900	6,430 3.0 19,290	12,320 1.4 17,250	28,940 9.39 271,750	50,740 0.7 35,520	11,130 0.65 7,230	50 86 52 86	37,550	19,460	4,600	1,410	307,430
10	313,560	6,890 3.0 20,670	13,180 1.4 18,450	29,540 9,89 292,150	52,870 0.7 37,010	11,240 0.65 7,310	1,000 25 250	37,630	19,500	4,610	1,410	327,430
• 92	314,220	7,370 3.0 22,120	14,100 1.4 19,740	30,160 10.41 313,970	55,090 0.7 38,560	11,350 0.65 7,380	1,020 0.25 260	37,710	19,340	4,620	1,420	349,690
£6	314,880	7,880	15,090 1.4 21,130	30,800 10,90 337,570	57,410 0.7 40,190	11,460 0.65 7,450	1,040 0.25 260	37,790	19,590	4.630	1, 420 .	373,240
l							 .					

APPENDIX B-4 SEVERAL CASH CROPS PRODUCTION AREAS

IN INDONESIA



APPENDIX B-5 TRANSPORT COST CALCULATION RESULTS

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Coord Part Coord Part Toor Lat Coord Part Poor Part <			MOTON CYCLE	artoy:			LICHT BUS	\$M\$:	LIGHT TRUCK	TRUCK			다 요구	NEDITA TRUCK	
Cool Zis To Lo To To <tht< th=""><th></th><th></th><th></th><th></th><th>ļ</th><th>1</th><th>Had v</th><th>Poor</th><th>1 Tad</th><th>Cood</th><th>Tair</th><th>Poor</th><th>Bad.</th><th>Cood</th><th>Vair</th><th>Poor</th><th>J</th></tht<>					ļ	1	Had v	Poor	1 Tad	Cood	Tair	Poor	Bad.	Cood	Vair	Poor	J
100 100 100 100 100 100 100 100 100 0.050 0.070 0.080 0.230 0.260 0.300 0.460 0.390 0.460 0.391 0.460 0.395 0.230 0.480 0.395 0.230 0.480 0.395 0.391 0.460 23.6 0.391 0.460 23.6 23.4 23.4 23.4 23.4 23.4 23.7 39.7 44.4 23.7 39.7 44.6 23.6 45.0 13.1 13.1 23.7 39.7 44.6 23.6 45.0 23.6 45.0 23.6 45.0 23.6 45.0 23.6 45.0 23.7 23.7 29.7 44.6 23.7 24.7 23.7 <th></th> <th>200 200 200</th> <th>1</th> <th>1007</th> <th>2</th> <th>99 97</th> <th>1 8</th> <th>2</th> <th>-</th> <th>9</th> <th>ខ្ល</th> <th>21</th> <th>ŝ</th> <th>9 3</th> <th>8</th> <th>8</th> <th>2</th>		200 200 200	1	1007	2	99 97	1 8	2	-	9	ខ្ល	21	ŝ	9 3	8	8	2
0.640 0.070 0.080 0.120 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130 0.140 0.130			1		ľ			8				8				2	
4.0 3.5 7.0 8.0 27.0 35.0 52.0 <th< td=""><td>_I</td><td>0,040</td><td>1 2</td><td>0.070</td><td>0,080</td><td>0.270</td><td>0.350</td><td>0.550</td><td>0.620</td><td>0,260</td><td>0.530</td><td>0.460</td><td>0.580</td><td>0.395</td><td></td><td>0.680</td><td>0.850</td></th<>	_ I	0,040	1 2	0.070	0,080	0.270	0.350	0.550	0.620	0,260	0.530	0.460	0.580	0.395		0.680	0.850
No. 25,450 26,450 27,70 11,7 27,1 25,7 35,7 35,7 35,7 44,4 7,15 13,1 137,7 35,7 35,7 44,4 7,15 35,7 44,4 7,15 35,7 35,7 44,4 7,15 35,7 35,7 44,45 7,15 35,7 35,7 44,45 7,15 35,7 35,7 44,45 7,15 35,7 36,7 44,45 7,15 35,7 36		0		7.0	8,0 8	27.0	35.0	55.0	62.0	26.0	53.0		. 58.0	5.51		23.8	29.8
2 4 4 4 4 10	al + Old Cost (Kp/Km)						26.4	8			26.4	8				-000-1	
21,000 20,00 13,200 11,600 10,00 10,00 10,00 10,00 11,00 13,10 13,100 11,900 13,100 11,900 13,100 11,900 13,10 13,10 13,10 13,00 11,900 13,00 11,900 13,10 13,00 11,900 13,10 13,00 11,900 13,10 13,00 13,10 13,00 </td <td>of the set of the set</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>-3</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>¢</td> <td></td>	of the set of the set			4			-3				4					¢	
21,000 21,000 13,00 13,00 13,00 13,00 13,10 13,1	_									000 11	004-01	0.400	7.000	14.000		11,900	9°00
2:9 3:3 3:6 4.4 7.8 8:0 9.8 11.7 7.9 10.9 12.4 7.8 10.100 7:3 (4537 Tax) 5:504 (117 Tax) 5:504 (117 Tax) 4.291 (137 Tax) 10.100 90 90.000 81.000 72,000 96.000 324.000 324.000 224.000 224.000 224.000 4.291 13.7 10.100 11.7 12.5 13.5 15.3 20.2 23.3 23.4 20.3 18.4 19.6 21.1 23.9 9.9 11.7 12.5 13.5 13.5 20.2 23.3 23.4 20.3 18.4 19.6 21.1 23.9 34.6 30.9 9 8 9.6 9.6 13.2 20.2 23.1 10.7 24.6 32.6 11.7 12.5 13.5 20.5 20.5 23.6 9.9 13.1 21.6 32.6 3.3 9.6 9.8 26.4 52.6 20.7 10.9 12.4 10.5 11.7 12.5 9.5 13.5 20.6 10.7 9.6 12.4 10.5 12.4 13.7 20.7 20.7	* (Ka)	21,000	20,000	17,900	13.200	12,000	007,11		14.1	9.6	1.01	11.3	13.1	37.7		4.44	56.7
725 (45X Tax) 5.50% (11X Tax) 4.291 (13X Tax) 10,190 90.000 11.0 22,000 55.000 224,			2.2		4.4	8	8.8	9.9	11.7	9.6	10.9	12.4	14.9	15.2	16.7	19.0	22.8
X0 90.000 81.000 724.000 360.000 324.000 <t< td=""><td>part e referencemente com - avive -</td><td></td><td>725 (43</td><td>Z Tax)</td><td></td><td></td><td>5.50</td><td>(XMT XII</td><td></td><td></td><td>4.291</td><td>(13% Tax)</td><td></td><td></td><td>10,190</td><td>(127 Tax</td><td></td></t<>	part e referencemente com - avive -		725 (43	Z Tax)			5.50	(XMT XII			4.291	(13% Tax)			10,190	(127 Tax	
XV. Mo. V.	_!.	000	000	10 000	000 09	000-046	324.000	288.000	240.000	360,000	324,000	288.000	240,000	180,000 4	132,000	384,000	320,0
X) 11.7 12.5 13.1 20.2 23.4 20.3 18.4 19.0 21.1 21.9 34.6 39.7 No/Kn 11.7 12.3 13.5 13.5 13.5 20.2 23.5 29.3 18.4 19.0 21.1 21.9 34.6 39.7 No/Kn 31.7 11.7 12.3 13.5 13.5 20.2 23.5 29.5 31.2 24.6 39.7 No 31.3 5.3 8.8 13.2 0.6 8.8 26.6 52.8 9.9 13.2 24.6 30.7 No 30.7 100 X1 100 X1 100 X1 100 X1 100 X1 111.0 17.9 23.9 0.05 adate (Ton) 11.2 13.9 9.0 11.0 17.9 23.9 0.05 0.05 0.05 c (Ko/Yaanemaar 13.2 13.1 29.1 20.6 0.1 0.05 0.1 0.15 24.8 c (Ko/Yaanemaar 13.2 13.1 29.1 0.1 10.7 24.1 20.6 50.6		~~~~~	>>>	20244												-	
11.7 12.5 13.5 15.3 20.2 23.4 20.3 18.4 19.6 21.1 23.6 30.9 30.7 3.3 5.3 8.8 13.2 50.4 32.6 52.8 9.9 13.2 26.4 30.9 30.7 3.3 5.3 8.8 13.2 6.6 8.8 26.4 52.6 9.9 13.2 26.4 30.9 30.7 3.5 5.3 8.8 13.2 50.6 13.2 26.4 52.6 9.9 13.2 26.4 20.9 20.0 1.1 1.0 100 X1 100 X1 100 X1 100 X1 115.4 16.5 24.8 1.1 50 X1 100 X1 100 X1 100 X1 115.4 16.5 24.8 1.1 6.3 8.3 25.0 30.0 7.4 9.8 19.7 59.0 12.4 16.5 24.8 1.1 1.1 8.5 0.0 17.9 25.9 0.05 0.85 50.0 50.6 50.6 50.6 50.6 1.1 1.1.0 17.9 25.9 0.05 111.0 17.9 25.7 39.1 50.1 50.1 50.2 50.1 50.2	portunity Cost (1)				_		9 5					0			6	÷	
11.1 13.2 6.6 6.8 26.4 22.8 9.9 13.2 26.4 79.2 24.6 32.8 49.2 3.3 5.3 8.8 13.2 6.6 6.8 26.4 27.8 9.9 13.2 26.4 79.2 24.6 32.8 49.2 1 105 X 1 105 X 1 105 X 1 105 X 1 115 X 1 360 X 1 115 X 1 1 50 X 1 105 X 1 105 X 1 105 X 1 105 X 1 360 X 1 1 5.0 50.0 7.4 9.8 19.7 59.0 12.4 16.5 24.8 1 1 1 105 X 1 105 X 1 105 X 1 105 X 1 36.0 12.4 16.5 24.8 1 1 1 1 1 1 1 1 1 50 1 1 1 1 1 1 1 1 50.0 1 1 1 1 1 1 1 1 50.0 1 1 1 1 1 1 1 1 50.0 1 1 1 1 1 1 1 1 50.0 <td></td> <td></td> <td>1.</td> <td></td> <td></td> <td>20.0</td> <td>6-12</td> <td>25.4</td> <td>2.5</td> <td>18.4</td> <td>19.6</td> <td>21.1</td> <td>6.12</td> <td>34.6</td> <td>30.9</td> <td>39.7</td> <td>43.0</td>			1.			20.0	6-12	25.4	2.5	18.4	19.6	21.1	6.12	34.6	30.9	39.7	43.0
3.3 3.4 0.6 1 190 X 1 190 X 1 360 X 1 andate 200 X 1 50 X 1 105 X 1 105 X 1 360 X 1 andate 50 X 1 50 0 7.4 9.8 19.7 39.0 12.4 10.5 24.8 andate 1.7 6.3 8.3 25.0 30.0 7.4 9.8 19.7 39.0 12.4 10.5 24.8 andate 1.7 6.3 8.3 25.0 30.0 7.4 9.6 12.4 10.5 24.8 andate 1.7 8.5 0.35 25.9 90.0 11.0 17.9 25.9 0.85 113.0 161.1 294.2 27.7 32.6		, , , ,					8.8	26.4	52.8	9.9	13.2	26.4	79.2	24.6	32.8	49.2	98.4
Andale 105 X 1 105 X 1 115 X 1 Andale 50 X 1 50 X 1 105 X 1 105 X 1 Andale 1.7 6.3 8.3 25.0 50.0 7.4 9.6 12.4 16.5 24.8 a (Ton) 1.7 8.5 0.05 7.4 9.6 19.7 59.0 12.4 16.5 24.8 x (Ton) 1.7 8.5 0.35 5.0 0.35 5.0 x (Ton) 1.7 25.9 0.35 5.0 0.35 5.0 x (Ton) 1.7.9 25.9 - - - - - x (Ton) - - 95.5 113.6 161.1 290.2 27.7 32.2	and the Cost < Ko/Ka >	2		0.0	*						9				360	ר א ג	
1.7 6.3 8.3 25.0 30.0 7.4 9.8 19.7 59.0 12.4 16.5 24.8 1.7 8.5 0.30 7.4 9.8 19.7 59.0 12.4 16.5 24.8 1.1 15.7 24.3 9.0 11.0 17.9 25.9 0.35 50.5 50.6 1.1 1.1 17.9 25.9 - 95.5 113.6 161.1 294.2 27.7 32.2 39.6	tiver's Wage (Kp/hr)		• 1	; ;							501	 	_		113	x 1	
1.7 8.5 8.5 5.0 13.2 13.9 19.7 24.5 9.0 11.0 17.9 25.9 - - - 5.0 - - - - 92.5 113.6 161.1 294.2 27.7 321.2 390.6					1	6.3	6.8	25.0	30.0	7.4	9.8	19.7	39.0	12.4	16.5	24.8	49.5
13.2 13.9 19.7 24.5 9.0 11.0 17.9 25.9 • • • • 0.85 • • • • • • • • • • • • • • • • • • •							a a								1	•	
13.2 13.9 19.7 24.3 9.0 11.0 17.9 25.9 -	terage Passangers per Vehidle urimum Loada mer Vahidle (Ton)			} 				i			ō	.85			Ŷ	0	
	histe Operation Coat (RD/Passenkar	13.2	13.9	19.7	24.5	:	11.0	17.9	25.9	•	3	*	3	1	,	•	•
	Km) Vehicle Operating Cost (kp/fon.km)	٩	*	٩		•	•	•	•	95.5	9.611	1.161	294.2	27.7	32.2	39.6	\$°.8

B5-1

VENTCLE TYPE		MOTOR CYCLIC	CYCL I		•	LICKT NUS	SUS 1		-	LICHI	LICHT TRUCK	:	2	NID IN TRUCK	ð	
koad Surtage Condicion Average Running Speed (Km/hr)	Coot 40	7air 30	Poor 15	5#d 10	600d 60	7air 35	Poot 15)ad v	2000 200	Fair 35	Peer 20	Jad J	40 40	Teår 35	Poor 20	P 0
ruel Unic Price (Rp/1)		007				001				न	8			ņ	35	
Fuel + Oil Consumption (L/Km) (Fuel Equivalent)	0,040	0.050	0.070	0.080	0.270	015.0	067.0	0.620	0.200	0.300	0.410	0.580	0.395	0,460	0.680	9.850
Fuel + Oil Cost (Rp/Km)	4.0	5.0	2.0	9 . 0	27.0	31.0	49.0	62.0	26.0	0.00	41.0	58.0	13.8	16.1	23.8	29.8
Cost of New Tyre (Rp) No.of Tyre per Vehicle		- 2,300 2	8			26.	26.450 4			26	26.450 4			88,000 6	8	
New Type Service Life (Km)	25,000	22,500	17,500	11,700	14.000	ä	9.800	6,500	13,000	11,700	9,100	6,000	16.500	14.900	11.600	7.600
Tyre Cost (Rp/Km) Repair & Maintenance Cost (Rp/Km)	2.9	0 7 7 7	0 9 0 6	7 7 7 7	9 99 	v v v	8 8 6	11.7	1.0	5.0	12.4	14.9	15.2	16.7	19.0	22.8
New Vahicle Price (10 ³ No)		725 (452 Tax)				5.504 (112 Tax)	LZ Tax)			4.291 (132 Tax)	JZ TAX)			(xeT ZZI) 001.01	(xet 22)	-
Vehicle Life (km)	90,000	81,000	72,000	60,000	360,000	360,000 324,000	288,000	240.000	240,000 360,000		324.000 288.000	240,000		480.000 432.000 384.000 320.000	384,000	320.0
Opportunity Cost (%)				-		81					18 90			- 18 95	~ ^	
Distance Dep.Cost (Rp/Kn)	11.7	12.5	13.5	15.2 2 2	20.2	2.5	25.4	29.3 52.8	18.4	19.6	21.1 19.8	23.9	34.6	36.9 28.1	39.7 49.2	45.0.
Scenarie Were (NS/NY) Driver's Vage (NS/NY) Mainer's Vare (NS/NY)					;	200 X 50 X				190	190 X 1 105 X 1			380 115	7 7 7 X	
Wage Cost (Rp/Km)					6.9	7.1	10.7	50.0	7.4	8.4	14.8	59.0	12.4	14.1	19.8	49.5
Average Passengers per Vahicla Maximum Loads per Vahicla (Ton)	ļ	11				÷.	~		-	0.85	15		-	- °*		
Vahidle Operating Cost (Kp / Passenger Km)	1.61	15.2	19.7	24.6	8.9	1.01	13.2	26.1								
Vehicle Operating Cost (Kp/Ton Km)						Ĩ			8.29	104.9	142.0	297.2	24.5	29.5	39.4	63.0

B5-2

Prepared by acreening Teasibility Project office. Yegyakarra Rural Roads Study Report by Enex of New Zealand.

	Back Pack or Over Head	Animal Cart	Bicycle
Xovable Distances(K9)	25	30	60
Hours (hr)	8	8	8
Average Speed (Km/br)	3	4	8
Average Capacity (Kg)	20	100	60
Wage Rate (Rp/Day) Vehicle Price (Rp)	800 	1,000	1,500 50,000
Transport Cost (Rp/Ton K¤)	1,667	333	391

TRANSPORT COST BY MANPOWER OR ANIMAL

Source : JICA Field Survey

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APPENDIX B-6 PRODUCER'S SURPLUS CALCULATION TABLES

OF

7 KABUPATENS

(86)

KABUPATEN KEPULAUAN RIAU

1. Reduction of transport Cost

- 107 Rps./ton.km,
- Average transport distance 10.8 km.
- Cost Reduction 107 Rps./ton.km x 10.8 km = 1,156 Rps./ton.

2. Agricultural production cost

- Čassava	21, 380	>	21,380	Fps./ton
- Coconut	91,200	>	91,200	Rps./ton
- Clove	127,200	>	127,200	Rps./ton
- Ribber	70,000	\rightarrow	70,000	Fp./ton

3. Farngate price

-	Cassava	40,000	>	41,156	Rps./ton
-	Coconut	115,000	>	116,156	Fps./ton
-	Clove	9,600,000	>	9,601,156	Rps./ton
-	Ribber	200,000	• >	201,156	Rps./ton

4. Transport cost

-	On improved road	59	Fps./ton.km
-	On non-improved road	166	Pps./ton.km

5. Market price of consumption

-	Rice	225	₽ _₽ s./kg
•	Cassava	90	Fps./kg
-	Naize	175	Fps./kg

KABUPATEN KEPULAUAN RIAU (Without Project)

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(EAR		AGRÍCULA	IURAL PRO	DUCTION		LÓCAI	l consumé	TION			5 U R B	LUS	5		PRODUCTION COST	PRODUCTION PRIČE	PRODUCTION BENEFIT	FOOD CON	SUMPTION
	PADDY	CASSAVA	COCOMUT	CLOVE	PUBBER	PADDY	CASSAVA	MAIZE	OTHEPS	CASSAVA	COCONUT	CLOVE	RUBBER	OTHERS	HILLION Rps.	MILLION Rps.	HILLION Aps.	TRANS. COST	PRICE
1981	425	11,800	4,690	100	3,430	22,085	7,325	1,730	\$30	4,475	4,690	100	3,430	- 16,120	776.2	2,364.4	1,588.2	28.9	3,421.
982	430	12,260	4,780	110	3,360	22,525	7,470	1,765	<u>540</u>	4,790	4,780	110	3, 360	- 16,445	· 787.5	2,469.3	1,681.8	29,5	3,490
1983	440	12,760	4,880	115	3,295	22,975	7,620	1,800	550	5,140	4,880	115	3,295	- 16,770	800.2	2,529.8	1,729.6	30, 1	3,560
1984	445	13,260	4,975	125	3,225	23,435	7,775	1,835	560	5,485	4,975	125	3,225	- 17,110	812.6	2,636.5	1,823.9	30.7	3,631
1985	455	13,800	5,075	1 30	3,160	23,905	7,930	1,875	575	5,870	5,075	130	3,160	- 17,460	826.1	2,698.4	1,872.3	31.3	3,704
1986	465	14,350	5,175	135	3,100	24,385	8,085	1,910	\$85	6,265	5,175	135	3,100	- 17,805	840.1	2,761.7	1,921.6	31.9	3,778
1987	475	14,925	5,280	145	3,035	24,870	8,250	1,950	595	6,675	5,280	145	3,035	- 18,155	855.1	2,873.2	2,018.1	32.5	3,854
1988	480	15,530	5,385	155	2,975	25,370	8,415	1,990	610	7,115	5, 385	155	2,975	- 18,530	871.2	2,986.9	2,115.7	33.2	3,93
1989	490	16,140	5,495	165	2,915	25 , 875	8,580	2,030	620	7,560	5,495	165	2,915	- 18,895	887.8	3,101.3	2,213.5	33.9	4,010
1990	500	16,765	5,600	170	2,855	26,395	8,755	2,070	635	8,030	5,600	170	2,855	- 19,275	903.9	3,168,2	2,264.3	34.6	4, 09
1991	510	17,460	5,715	185	2,800	26,920	8,930	2,110	645	8,530	5,715	185	2,800	- 19,655	923.1	3,334.4	2,411.3	35.2	4,17
1992	515	18, 160	5,825	195	2,745	27,460	9,105	2,155	660	9,055	5,825	195	2,745	- 20,060	941.8	3,453.1	2,511.3	36.0	4,25
1993	525	18,890	5,945	205	2,690	28,010	9,290	2,195	670	9,600	5,945	205	2,690	- 20,455	961,8	3, \$73. 7	3,611.9	35.7	4,34

KABUPATEN KEPULAUAN RIAU (With Project)

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5 11,795 0 12,690 0 13,600 5 14,530	сосонит 4,690 4,935 5,190 5,445	CLOVE 100 110 115 125	RUBBER 3,430 3,470 3,515	PADDY 22,085 22,550 23,020	CASSAVA 7, 325 7, 480 7, 635	PA12E 1,730 1,765	ÓTHERS 530 540	CASSAVA 4,470 5,210	COCONVT 4,690 4,935	CLOVE	HUBBER 3,430	OTHERS - 16,120	MILLION Rps. 776.1	HILLION Rps. 2,365.3	MILLION Pps. 1,589.2	TRANS. COST 27.4	PRICE 3,421.8
0 12,690 0 13,600 5 14,530	4,935 5,190	110 115	3,470	22,550	7,480					100	3,430	- 16,120	776.1	2,365.3	1,589.2	27.4	3,421.8
0 13,600 5 14,530	5,190	115				1,765	540	5,210	4.935								
5 14,530			3,515	23,020	7,635				.,	110	3,470	- 16,460	818.4	2,529.9	1,711.5	24,8	3,494.2
	5,445	125				1,805	550	5,965	5,190	115	3,515	- 16,805	861.5	2,649.6	1,789.1	22.0	3,567.4
		1.5	3,740	23, 505	7,795	1,845	565	6,735	5,445	125	3,740	- 17,170	918.3	2,854.3	1,936.0	19.3	3,643.5
5 15,140	5,550	130	3,660	24,000	7,960	1,890	575	7,180	5,550	130	3,660	- 17,525	932.4	2,919.8	1,987.4	16,2	3,719,5
15,780	5,665	135	3,585	24,505	8,125	1,920	590	7,655	5,665	135	3,585	- 17,895	948.4	2,988.8	2,040.4	13.1	3,797.8
16,445	5,775	145	3,505	25,015	8,295	1,960	600	8,150	5,775	145	3,505	- 18,265	964.7	3,103.4	2,138.7	11,6	3,876.8
80 17,120	5,890	155	3,435	25,545	8,470	2,000	615	8,650	5,890	155	3,435	- 18,655	982.3	3,219.3	2,237.0	11.9	3,957.4
0 17,855	6,010	160	3,520	26,080	8,650	2,045	625	9,205	6,010	169	3,520	- 19,045	1,011.7	3,321.2	2,309.5	12.1	4,042.8
00 18,605	6,130	170	3,450	26,625	8,830	2,085	640	9,775	6,130	170	3,450	- 19,445	1,031,2	3,440.5	2,409.3	12.4	4,126.9
10 19,375	6,250	185	3, 375	27,185	9,015	2,130	650	10, 360	6,250	185	3,375	- 19,850	1,051.3	3,607.5	2,556.2	12.6	4,214.0
15 20,195	6,380	185	3,305	27,755	9,205	2,175	665	10,930	6,380	195	3,305	- 20,275	1,072.9	3,730.4	2,657.5	12.9	4,303.2
25 21,035	6,505	205	3,380	28, 340	9,400	2,220	680	11,635	6,505	205	3,380	- 20,700	1,104.7	3,882.6	2,777.9	13.2	4,393.9
5 75 90 90	15,780 16,445 17,120 17,855 18,605 19,375 20,195	15,780 5,665 16,445 5,775 17,120 5,890 17,855 6,010 18,605 6,130 19,375 6,250 20,195 6,380	15,780 5,665 135 16,445 5,775 145 17,120 5,890 155 17,855 6,010 160 18,605 6,130 170 19,375 6,250 185 20,195 6,380 185	15,7805,6651353,58516,4455,7751453,50517,1205,8901553,43517,8556,0101603,52018,6056,1301703,45019,3756,2501853,37520,1956,3601853,305	15,780 5,665 135 3,585 24,505 16,445 5,775 145 3,505 25,015 17,120 5,890 155 3,435 25,545 17,855 6,010 160 3,520 26,080 18,605 6,130 170 3,450 26,625 19,375 6,250 185 3,375 27,185 20,195 6,360 185 3,305 27,755	15,7805,6651353,58524,5058,12516,4455,7751453,50525,0158,29517,1205,8901553,43525,5458,47017,8556,0101603,52026,0808,65018,6056,1301703,45026,6258,83019,3756,2501853,30527,1859,01520,1956,3801853,30527,7559,205	15,7805,6651353,58524,5058,1251,92016,4455,7751453,50525,0158,2951,96017,1205,8901553,43525,5458,4702,00017,8556,0101603,52026,0898,6502,04518,6056,1301703,45026,6258,8302,08519,3756,2501853,37527,1859,0152,13020,1956,3801853,30527,7559,2052,175	15,7805,6651353,58524,5058,1251,92059016,4455,7751453,50525,0158,2951,96060017,1205,8901553,43525,5458,4702,00061517,8556,0101603,52026,0898,6502,04562518,6056,1301703,45026,6258,8302,08564019,3756,2501853,30527,1859,0152,130655	15,7805,6651353,58524,5058,1251,9205907,65516,4455,7751453,50525,0158,2951,9606008,15017,1205,8901553,43525,5458,4702,0006158,65017,8556,0101603,52026,0808,6502,0456259,20518,6056,1301703,45026,6258,8302,0856409,77519,3756,2501853,37527,1859,0152,13065010,36020,1956,3801853,30527,7559,2052,17566510,930	15,7805,6651353,58524,5058,1251,9205907,6555,66516,4455,7751453,50525,0158,2951,9606008,1505,77517,1205,8901553,43525,5458,4702,0006158,6505,69017,8556,0101603,52026,0898,6502,0456259,2056,01018,6056,1301703,45026,6258,8302,0856409,7756,13019,3756,2501853,37527,1859,0152,13065010,3606,25020,1956,3801853,30527,7559,2052,17566510,9306,380	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 17,120 5,690 155 3,435 25,545 8,470 2,000 615 8,650 5,690 155 17,855 6,010 160 3,520 25,045 8,470 2,005 615 8,650 5,690 155 18,605 6,130 160 3,520 26,025 8,830 2,045 625 9,205 6,010 160 19,375 6,250 185 3,375 27,185 9,015 2,130 650 10,360 6,250 185 19,375 6,380 185 3,305 27,755 9,205 2,175 665 10,940 6,380 195	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 3,505 17,120 5,690 155 3,435 25,545 8,470 2,000 615 8,650 5,690 155 3,435 17,855 6,010 160 3,520 26,080 8,650 2,045 625 9,205 6,010 160 3,520 18,605 6,130 170 3,450 26,625 8,830 2,085 640 9,775 6,130 170 3,450 19,375 6,250 185 3,375 27,185 9,015 2,130 650 10,360 6,250 185 3,375 20,195 6,360 185 3,305 27,755 9,205 2,175 665 10,940 6,360 195 3,305	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 - 17,895 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 - 18,265 17,120 5,890 155 3,435 25,545 8,470 2,000 615 8,650 5,690 155 3,435 - 18,655 17,855 6,010 160 3,520 26,089 8,650 2,045 625 9,205 6,010 169 3,520 - 19,045 18,605 6,130 170 3,450 26,625 8,830 2,085 640 9,775 6,130 170 3,450 - 19,045 19,375 6,250 185 3,375 27,185 9,015 2,130 650 10,360 6,250 185 3,375 - 19,650 19,375 6,380 185 3,305 27,755 9,205 2,175 665 10,900 6,380 195 3,305 - 20,275 <	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 -17,895 948.4 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 -18,265 964.7 17,120 5,890 155 3,435 25,545 8,470 2,000 615 8,650 5,690 155 3,435 -18,655 982.3 17,855 6,010 160 3,520 26,089 8,650 2,045 625 9,205 6,010 169 3,520 -19,045 1,011.7 18,605 6,130 170 3,450 26,625 8,830 2,085 640 9,775 6,130 160 3,520 -19,445 1,031.2 19,375 6,250 185 3,375 27,185 9,015 2,130 650 10,360 6,250 185 3,375 -19,650 1,051.3 19,375 6,380 185 3,305 27,755 9,205 2,175	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 - 17,895 948.4 2,988.8 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 - 18,265 964.7 3,103.4 17,120 5,890 155 3,435 25,545 8,470 2,000 615 8,650 5,890 155 3,435 - 18,655 982.3 3,219.3 17,855 6,010 160 3,520 26,080 8,650 2,045 625 9,205 6,010 160 3,520 1,011.7 3,321.2 18,605 6,130 170 3,450 26,625 8,830 2,085 640 9,775 6,130 170 3,450 1,011.7 3,321.2 19,375 6,250 185 3,375 27,185 9,015 2,130 650 10,360 6,130 170 3,450 1,031.2 3,460.5 9,375 6,380 185 3,305 <td>15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 -17,895 948.4 2,988.8 2,040.4 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 -18,265 964.7 3,103.4 2,138.7 17,120 5,890 155 3,435 25,545 8,470 2,000 615 8,650 155 3,435 -18,255 982.3 3,219.3 2,237.0 17,855 6,010 160 3,520 26,020 8,650 2,045 6,010 160 3,520 1,011.7 3,321.2 2,309.5 18,605 6,130 170 3,450 26,625 8,830 2,085 640 9,775 6,130 17,035 1,031.2 3,440.5 2,409.3 19,375 6,250 185 3,315 21,85 640 9,775 6,130 170 3,012.2 3,440.5 2,409.3 19,375 6,250 185 3,315</td> <td>15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 -17,895 948.4 2,988.8 2,040.4 13.1 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 964.7 3,103.4 2,138.7 11.6 17,120 5,890 155 3,435 25,545 8,470 2,040 615 8,650 5,890 155 3,435 982.3 3,219.3 2,237.0 11.9 17,120 5,890 160 3,520 26,009 8,650 2,045 6,900 160 3,520 992.3 3,219.3 2,237.0 11.9 17,855 6,010 160 3,520 26,009 8,650 2,045 6,910 160 3,520 19,045 1,011.7 3,321.2 2,309.5 12,10 18,665 6,130 170 3,450 1,91 3,450</td>	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 -17,895 948.4 2,988.8 2,040.4 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 -18,265 964.7 3,103.4 2,138.7 17,120 5,890 155 3,435 25,545 8,470 2,000 615 8,650 155 3,435 -18,255 982.3 3,219.3 2,237.0 17,855 6,010 160 3,520 26,020 8,650 2,045 6,010 160 3,520 1,011.7 3,321.2 2,309.5 18,605 6,130 170 3,450 26,625 8,830 2,085 640 9,775 6,130 17,035 1,031.2 3,440.5 2,409.3 19,375 6,250 185 3,315 21,85 640 9,775 6,130 170 3,012.2 3,440.5 2,409.3 19,375 6,250 185 3,315	15,780 5,665 135 3,585 24,505 8,125 1,920 590 7,655 5,665 135 3,585 -17,895 948.4 2,988.8 2,040.4 13.1 16,445 5,775 145 3,505 25,015 8,295 1,960 600 8,150 5,775 145 3,505 964.7 3,103.4 2,138.7 11.6 17,120 5,890 155 3,435 25,545 8,470 2,040 615 8,650 5,890 155 3,435 982.3 3,219.3 2,237.0 11.9 17,120 5,890 160 3,520 26,009 8,650 2,045 6,900 160 3,520 992.3 3,219.3 2,237.0 11.9 17,855 6,010 160 3,520 26,009 8,650 2,045 6,910 160 3,520 19,045 1,011.7 3,321.2 2,309.5 12,10 18,665 6,130 170 3,450 1,91 3,450

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KABUPATEN LAHAT

- 1. Transport Cost Reduction
 - 225 Rps/ton Km
 - Average transportation distance 8.7 Km
 - Cost Reduction 225 Rps/ton Km X 8.7 Km = 2000 Rp/ton
- 2. Agricultural production cost Reduction

 - Coffee 138,000 ----- 138,000 Rps/ton
- 3. Farmgate production price increase
 - Paddy 90,000 ---- 92,000 Rps/ton
 - Coffee 800,000 ---> 802,000 Rps/ton
- 4. Transport cost
 - On improved road 89 Rps/ton Km
 - On non-improved road 314 Rps/ton Km
- 5. Market Price of Consumption Goods
 - Rice 225 Rps/Kg
 - Cassava 90 Rps/Kg
 - Maize 175 Rps/Kg

KARUPATEN LANAT (Without Project)

						VACA LACY				Surndine		Production Cost	on Coat	Production Price	in Price	Produc- Food Consumption	Tood Cone	mptron
	<	Nortonner vronnerton	7200001						2022	Co 1 40	Ochere	Paddy	Coffee	VDDAT		Deneffit	Trans.	Price
	Paddy	CABBBVA	Magre	Coffee	Paddy	CANAAVA	Maike	Ochere	ADDWA	B 1 1 2								
					-					-		X	X 106Rpa	×	X 10°Rpa	X 10°Rpu	X 10° %pe	Rpe
te.	29.355	1.190	014	4,895	21,795	7, 230	1.715	525	6,095	4,895	-7.570	336	676	675	3,916	3,453	ส	702
.82	30,160	1.225	765	5,190	22,405	7.430	1.760	0 75	6,245	5,190	-7.740	344	716	562	4,152	3,654	21	5
5 .	30,990	1.250	. 845	5.500	23,030	7.640	1,805	550	6.410	5.500	-7,900	353	759	577	-007*7	3,865	8	743
78.	21,925	1,285	515	5,630	23,675	7,855	1,855	565	6,655	5,830	-6.075	367	805	299	4.664	160.4	22	756
	32,850	1,320	066	6,180	24,340	8.075	016'1	585	6,865	6,180	-8,260	378	853	618	4.944	4.331	ន	769
.86	068.00	1.355	1,085	6,550	25,020	8,300	1,965	009	7,175	6,350	-8,425	395	36	\$45	5,240	4,587	ล	611
.81	34,980	066.1	1.165	6,940	25,725	8.530	2,020	615	7.505	6,945	-8,610	614	956	675	5,556	4.860	24	792
38 28	35,970	1.425	1.275	7.360	26,440	8.770	2.080	630	7.730	7,360		426	1 +016	696	5,888	5,142	24	Ř
*89	36,650	1.460	1,365	7,800	27,185	9,015	2,135	650	7.630	7,800	 8,955	420	1.076	687	6,240	3,431	35	811
8.	276, 75	1.500	1.495	8,270	27,945	9.720	2,190	670	7,560	8,270	-9,135	416	1,141	680	6.616.	5,739	ล	821
16.	-021-9C	1,535	1.630	8,770	28,730	9.330	2,250	690	7.485	å . 770	-9,305	412	1,210	674	7.016	6,068	ุ่ม	828
-92	38,895	1,580	1.770	9,295	29,530	9.795	2.360	705	7,420	9,295	-9,51.0	409	1.280	6 68	7.436	6,412	56	843
\$6.	39,715	1.615	1.930	9,850	30,360	10.070	2,380	730	7.370	9,850	-9,635	406	1,359	663	7.880	6, 778	26	840
															1			

B6-5

(With Project)
KANUPATIN LANAT

						Local Consumption	-uotadwa											
		- TRANSTING	VERTOULTER A TAUNUTUR	Coffee	Paddy	CARMAVO	Maire	Others	Paddy	Coffee	othere	Paddy	Coffee	Peddy	coltae	Beneff1t	Coat	*25C*
Ţ	ABOWA											X 10	X 10 ⁶ kpe.	DT X	X 100Rp#	X 10 ⁶ Rps	x lo ⁶ Rps	¢,Kp∎
19.	29,355	1,190	012	4,895	21,795	0.27.7	1,705	530	6,090	4,895	-7.365	585	676	286	3,926	3,475	18	702
.82	30,325	1,260	800	5,360	22,425	7,440	1,760	335	6,380	5,360	-7.675	351	240	5 82	4.299	3,795	ព	724
	31,325	066.1	006	5,830	23,080	7,655	1,810	555	6,685	5,850	-7.790	368	807	615	4.692	4,132	3	729
1 8	32,420	1,400	1.000	6,355	23,745	7,875	1,840	575	7.050	6,355	-7.910	388	877	649	5,097	4,481	s	222
	33.510	1,435	1,080	6 . 745	24,435	8,105	1,915	590	7.395	6,745	-8,095	407	931	680	5,409	4.751	\$	246
20	34,695	1,470	1,140	7.165	25,145	8.240	1,970	603	7,815	7,165	-8,265	430	989	513	5,746	5.046	\$	757
18,	35.930	1.520	1,280	7.605	25,510	8.585	2,030	615	8,620	7,605	-8.430	474	1,049	C6.4	6.099	5,369	~	767
88	090*40	1.555	1,400	6.080	26.625	8,835	2.085	635	8,585	8,080	-8.600	472	1,115	290	6,480	5,683	~	789
189	37.875	1,605	005,1	8,580	27,395	060"6	2,150	635	8,590	\$,580	-8,760	C74	1,184	262	6.881	6.014	~	782
\$	36,720	1,640	1,650	9,115	28,190	9,250	2,210	673	8.595	9,115	-8,945	C14	1.238	290	7.310	6.369	~	792
16.	39.590	1,685	1,800	9,675	29,010	9.620	2,275	200	8,600	9.675	011.6-	473	1.335	164	7.759	6.742	~	797
.92	40,485	1.735	1.965	10.280	29.845	9.900	2,340	720	8,615	10.280	-9,260	474	1.419	793	8,245	7.145	~	800
¢6.	41.415	1,780	2,140	10.915	20,715	10,190	2,410	735	8,630	10.915	-9,415	475	1.506	194	8,754	7,567	~	<u>ኝ</u> 8

KABUPATEN LAMPUNG SELATAN

- 1. Transport cost Reduction
 - 71 Rps/ton.Km

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- average transportation distance 5.0 Km
- Cost Reduction 71 Rps/ton.Km x 5.0 Km = 350 Rps/ton

2. Agricultural production cost Reduction

- coconut	91,200		91,200	Rps/ton
- coffee	138,000		138,000	Rps/ton
- pepper	329,200		329,200	Rps/ton
- clove	127,200	>	127,200	Rps/ton

3. Farmgate production price increase

- coconut	115,000)	115,350	Rps/ton
- coffee	800,000		800,350	Rps/ton
- pepper	960,000		960,350	Rps/ton
- clove	9,600,000	}9	,600,350	Rps/ton

4. Transport cost

-ron improved road	59	Rps/ton.Km
- on non-improved road	130	Rps/ton_Km

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KABUPATEN LANPUNG SELATAN (without project)

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	clove ot	others x 10 ⁶ Rps.	$\times 10^6$ Rps.		<u> </u>
20 450	······	i	x IU Xps.	X 1	0 ⁶ Rps.
,450	1,355 -20	-20,450 1,657	19,614	17,957	13
-20,388	1,400 -20	-20,388 1,721	20,277	18,566	13
-20,255	1,450 -20	-20,255 1,776	21,001	19,225	13
-20,190	1,500 -20	-20,190 1,838	21,730	19,892	13
-20,060	1,55520	-20,060 1,902	22,511	20,609	13
-19,975	1,610 -19	-19,975 1,976	23,305	21,329	13
-19,840	1,665 -19	-19,840 2,037	24,107	22,070	13
-19,750	1,725 -19	-19,750 2,110	24,971	22,861	13
-19,605	1,785 -19	-19,605 2,183	25,839	23,656.	13
-19,445	1,845 -19	-19,445 2,260	26,721	24,461	13
-19,280	1,910 -19	-19,280 2,339	27,663	25,324	13
-19,180	1,975 -19	-19,180 2,422	28,615	26,193	12
-19,000	2,045 -19	-19,000 2,507	29,627	27,120	12
	1,725 - 1,785 - 1,845 - 1,910 - 1,975 -		19,750 2,110 19,605 2,183 19,445 2,260 19,280 2,339 19,180 2,422	19,7502,11024,97119,6052,18325,83919,4452,26026,72119,2802,33927,66319,1802,42228,615	19,7502,11024,97122,86119,6052,18325,83923,65619,4452,26026,72124,46119,2802,33927,66325,32419,1802,42228,61526,193

KABUPATEN LAMPUNG SELATAN (with project)

YEAR			AGRICULT	URAL PROD	UCTIÓN				LOCAL CONSU	MPTION				SURPLUS			PRODUCTION COST	PRODUCTION PRICE	PRODUCTION BENEFFIT	TRÂNSPORT COST
IZAK	paddy	coconut	coffee	pepper	clove	cassavat	eaizet	rice	cassava+	ealze t	others	coconut	coffee	pepper	clove	others	x 10 ⁶ Rps.	x 10 ⁶ Rps.	× 10	Rps.
1981	47,975	4,615	7,480	95	1,355	30,710	3,800	34,935	18,105	4,280	1,310	4,615	7,480	95	1,355	-20,450	1,657	19,614	17,957	12
1982	49,475	4,785	7,885	100	1,405	31,030	3,835	36,225	18,775	4,435	1,360	4,785	7,885	100	1,405	-20,650	1,736	20,445	18,709	10
1983	51,120	5,075	8,180	105	1,455	31,325	3,870	37,565	19,470	4,600	1,410	5,075	8,180	105	1,455	-20,775	1,811	21,201	19,390	7
1984	52,710	5,260	8,620	110	1,585	31,645	3,925	38,955	20,190	4,770	1,460	5,260	8,620	110	1,585	-20,960	1,907	22,828	20,921	6
1985	54,480	5,575	8,940	110	1,645	31,965	3,960	40,395	20,940	4,950	1,515	5,575	8,940	110	1,645	-21,105	1,988	23,696	21,708	6
1986	56,200	5,780	9,420	115	1,705	32,280	3,995	41,890	21,715	5,130	1,570	5,780	9,420	115	1,705	-21,305	2,082	24,685	22,603	6
1987	58,070	6,120	9,920	120	1,770	32,600	4,030	43,440	22,515	5,320	1,630	6,120	9,920	120	1,770	-21,455	2,192	25,753	23,561	6
1988	59,905	6,345	10,290	125	1,835	32,920	4,080	45,050	23,350	5,515	1,690	6,345	10,290	125	1,835	-21,640	2,273	26,704	24,431	6
1989	61,950	6,720	10,745	130	1,995	33,260	4,115	46,715	24,215	5,720	1,750	6,723	10,745	130	1,995	-21,860	2,392	28,652	26,260	6
1990	64,025	6,970	11,410	135	2,065	33,580	4,155	48,445	25,110	5,935	1,815	6,970	11,410	135	2,065	-21,900	2,517	29,890	27,373	6
1991	66,155	7,375	11,835	140	2,140	33,920	4,190	50,235	26,040	6,155	1,885	7,375	11,835	140	2,140	-22,070	2,624	31,002	28,378	7
<u>\$1992</u>	68,250	7,645	12,460	150	2,220	34,125	4,240	52,095	27,005	6,380	1,955	7,645	12,460	150	2,220	-22,140	2,748	32,311	29,563	7
1993	70,535	8,090	13,110	155	2,410	34,125	4,275	54,020	28,000	6,615	2,025	8,090	13,110	155	2,410	-21,950	2,905	34,711	31,806	7

KABUPATEN MANOGARAI

1. Reduction of transport Cost

- 215 Rps./ton.km
- Avarage transport distance 27.7 km.
- Cost Reduction 215 Rps./ton.km x 27.7 km = 5,956 Rps./ton.

2. Agricultural production cost

- Paddy	55 ,0 80	\rightarrow	54,900	Rps./ton
- Haize	25,700	>	25,090	Rps./ton
- Coconut	91,200	∽→	91,200	Rps./ton
- Coffee	138,000	\rightarrow	138,000	Rps./ton

3. Farmgate price

- Paddy	90,000	>	95,956	Pps./ton
- Maize	60,000	>	65,956	Rps./ton
- Coconut	115,000	>	120,956	Rps,/ton
- Coffee	960,000	>	965,956	Pps./ton

4. Transport cost

-	On improved road	89	Pps./ton.kn
•	On non-improved road	304	Pps./ton.km

5. Market price of consurption

- Rice	225	Fps./kg
- Cassava	90	Rps./kg
- Kaize	175	Fps./kg

KABUPATEN MANOGARAI (Without Project)

YEAR		AGRICULT	URAL PRO	DUCTION		LOCAI	, CONSUMP	710N		S	UR	PLUS	;		PRODUCTION COST	PRODUCTION PRICE	PRODUCTIÓN BENEPIT	FOOD CON	SUMPTION
	PADDY	CASSAVA	KAIZE	COCONUT	COFFEE	PADDY	CASSAVA	MAIZE	others	PADDY	FAIZE	CÓCONVT	CÓFFEE	ÓTHERS	MILLION Rps.	MILLION Pps.	MILLION Rps.	TRANS. COST	PRICE
1981	21, 325	5,445	5,865	950	770	22,235	7,375	1,745	530	~	4,120	950	770	- 3,040	298.8	1,095.7	796.9	25.6	304.7
1982	22,500	5,600	5,960	990	845	22,610	7,500	1,770	540	-	4,190	990	845	- 2,550	314.6	1,176.5	861.9	21.5	186.8
1983	33,735	5,765	6,065	1,030	930	22,995	7,630	1,805	550	740	4,260	1,030	930	- 2,415	372.5	1,333.5	961.0	20.3	167.9
1984	25,040	5,930	6,170	1,070	1,025	23, 385	7,760	1,835	560	1,655	4,335	1,070	1,025	- 2,390	441.6	1,516.1	1,074.5	20.1	164.7
1985	26,420	6,105	6,275	1,120	1,125	23,785	7,830	1,865	570	2,635	4,410	1,120	1,125	- 2,355	515.9	1,710.6	1,194.7	⁻ 19.8	160.7
1986	27,875	6,285	6,395	1,165	1,240	24,190	8,025	1,895	580	3,685	4,500	1,165	1,240	- 2,320	596.0	1,926.0	1,330.0	19.5	156.6
1987	29,405	6,470	6,490	1,215	1,365	24,600	8,160	1,930	590	4,805	4,560	1,215	1,365	- 2,280	681.0	2,156.2	1,475.2	19,2	152.1
1988	31,020	6,650	6,600	1,265	1,500	25,020	8,300	1,960	600	6,000	4,640	1,265	1,500	- 2,250	772.1	2,403.8	1,631.8	18.9	148.5
1989	32,725	6,845	6,710	1,320	1,650	25,445	8,440	1,995	610	7,280	4,715	1,320	1,650	- 2,205	870.2	2,673.9	1,803.7	18.6	143.6
1990	34,530	7,040	6,825	1,375	1,815	25,875	8,585	2,030	620	8,655	4,795	1,375	1,815	- 2,165	975.8	2,967.2	1,991.4	18.2	139.1
1991	36,430	7,245	6,940	1,430	1,995	26,315	8,730	2,065	630	10,115	4,875	1,430	1,995	- 2,115	1,088.1	3,282.5	2,194.4	17.8	133.7
1992	38,435	7,455	7,060	1,490	2,195	26,765	8,890	2,100	640	11,670	4,960	1,490	2,195	- 2,065	1,209.1	3,626.5	2,417.4	17.4	128,3
1993	40,545	7,675	9,180	1,555	2,415	27,220	9,030	2,135	650	13,325	5,045	1,555	2,415	- 2,005	1,338.7	3,999.2	2,660.5	16.9	122.0

KABUPATEN MANGGARAI (With Project)

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EAR	AGRICULTURAL PRODUCTION LOCAL CONSUMPTION					S	URI	LUS			PRODUCTION COST	PRODUCTION PRICE	PRODUCTION BENEFIT	FOOD CON	SUMPTION				
	PADDY	CASSAVA	KA12E	COCONUT	Coffee	PADDY	CASSAVA	MAIZE	others	PADDY	KA12E	COCONUT	COFFEE	OTHERS	MILLION Rps.	KILLION Rps.	HILLION Rps.	TPANS. COST	PRIC
981	21,325	5,445	5,865	950	770	22,235	7,375	1,745	530	-	4,120	950	770	- 3,370	298.6	1,098,4	799.8	26.8	304.
982	22,500	5,675	6,065	1,005	860	22,635	7,510	1,775	\$40	-	4,290	1,005	860	- 2,510	319.9	1,207.7	887.8	17.4	184
983	23,735	5,960	6,275	1,065	955	23,040	7,645	1,805	550	695	4,470	1,065	955	- 2,235	381.0	1,388.0	1,007.0	13.2	151
984	25,040	6,220	6,475	1,115	1,060	23,455	7,780	1,840	560	1,585	4,635	1,115	1,060	- 2,120	452.6	1,595.6	1,143.0	10.5	140
985	26,420	6,490	6,685	1,180	1,180	23,880	7,920	1,870	570	2,540	4,815	1,180	1,180	- 2,000	531.6	1,829.4	1,297,8	7.9	120
986	27,875	6,770	6,900	1,245	1,300	24,310	8,065	1,905	580	3,565	4,935	1,245	1,300	- 1,875	614.3	2,072.6	1,458.3	5.5	11
987	29,405	7,045	7,110	1,310	1,440	24,745	8,210	1,940	590	4,660	5,170	1,310	1,440	- 1,755	703.7	2,337.6	1,633.9	4.3	10
1988	31,020	7,255	7,240	1,365	1,585	25,190	8,355	1,975	600	5,830	5,265	1,365	1,585	- 1,700	795.4	2,602.8	1,807.4	4.2	9
1989	32,725	7,480	7, 370	1,420	1,745	25,645	8,510	2,010	615	7,080	5,350	1,420	1,745	- 1,645	893.5	2,890.2	1,996.7	4.1	9
1990	34,530	7,705	7,500	1,480	1,920	26,105	8,660	2,045	625	8,425	5,455	1,450	1,920	- 1,580	999.3	3,201.9	2,202.6	3.9	6
1991	36,430	7,935	7,638	1,545	2,110	26,575	8,815	2,085	635	9,855	5,553	1,545	2,110	- 1,515	1,114.2	3,536.9	2,422.7	3,7	7
1992	38,435	8,170	7,775	1,605	2,320	27,055	8,975	2,120	650	11,380	5,655	1,605	2,320	- 1,455	1,233.2	3,900.2	2,667.0	3.6	
1993	40,545	8,415	7,915	1,675	2,555	27,540	9,135	2,160	660	13,005	5,755	1,675	2,555	- 1,380	1, 363. 7	4,298.1	2,934.4	3,4	6

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KABUPATEN BOLAANG MONGONDOW

1. <u>Reduction of transport Cost</u>

- 242 Rps./ton.km
- Average transport distance 8.5 km.
- Cost Reduction 242 Rps./ton.km x 8.5 km = 2,056 Rps./ton.

2. Agricultural production cost

- Paddy	55,080	>	55,020	Rps./ton
- Maize	25,700	\rightarrow	25,490	Rps./ton
- Cóconut	91,200	\rightarrow	91,200	Rps./ton
- Coffee	138,000	>	138,000	Pps./ton
- Clove	127,200	\rightarrow	127,200	Rps./ton

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3. Farmgate price

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- 3	Paddy	90,000	>	92,056	Rps./ton
- 1	Kaizė	60,000	>	62,056	Pps./ton
	Coconut	115,000	>	117,056	Rps./ton
-	Coffee	960,000	\rightarrow	962,056	Rps./ton
	Clove	9,600,000	\rightarrow	9,602,056	Rps./ton

4. Transport cost

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-	On improved road	89	Rps./ton.km
-	On non-improved road	331	Rps./ton.km

5. Market price of consumption

-	Rice	225	Fps./kg
-	Cassava	90	Rps./kg
-	Kaize	175	Rps./kg

KABUPATEN BOLAANG MONGONDOW (Without Project)

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	AGRICULTURAL PRODUCTION					LOCAL	, coksum	TION	SURPLUŠ						PRODUCTION COST	PRODUCTION PRICE	PRODUCTION BENEFIT	FOOD CONSUMPTION	
YEAR	PADDY	VAIZE	COCONUT	COFFEE	CLOVE	PADDY	MAISE	ÓTHERS	PADDY	MAIŻE	COCOLUT	COFFEE	CLOVE	OTHERS	MILLION Rps.	MILLION Rps.	MILLION Rps.	TRANS. COST	PRICE
1981	35,925	15,260	12,110	310	65	22,160	1,740	530	13,765	13,520	12,110	310	65	~ 530	2,261.1	4,364.3	2,103.2	1.5	
1982	37,445	16,440	12,520	315	70	23,045	1,810	555	14,410	14,630	12,520	315	70	- 555	2,364.4	4,588.9	2,224.5	1.6	
1983	39,035	17,860	12,790	320	90	23,970	1,880	575	15,065	15 ,980	12,790	320	90	- 575	2,462.5	4,956.7	2,494.2	1.6	
1984	40,705	19,235	13,215	330	95	24,925	1,955	600	15,780	17,280	13,215	330	95	- 600	2,576.1	5,205.5	2,629.4	1.7	
1985	42,440	20,865	13,345	335	120	25,925	2,035	620	16,515	18,830	13, 345	335	120	- 620	2,672.1	5,624.4	2,952.3	1.7	
1986	44,250	22,460	13,475	340	130	26,960	2,115	645	17,290	20,345	13,475	340	130	- 645	2,767.6	5,900.8	3,133.2	1,8	
1987	46,130	24,345	13,610	350	160	28,040	2,200	675	18,090	22,145	13,610	350	160	- 675	2,875.4	6,394.0	3,518.6	1.9	
1988	48,310	26,385	13,745	355	170	29,160	2,290	700	18,950	24,095	13,745	355	170	- 700	2.987.2	6,704.7	3,717.5	2.0	
1989	50,155	28,580	13,885	365	210	30, 325	2,380	730	19,830	26,200	13,885	365	210	- 730	3,109.0	7,319.9	4,210.9	2.1	
1990	52, 315	30,720	14,025	370	225	31,540	2,475	755	20,775	28,245	14,025	370	225	- 755	3,228.9	7,692.5	4,463.9	2.1	
1991	54,550	33,250	14,165	375	270	32,800	2,575	790	21,750	30,675	14,165	375	270	- 790	3,364.3	8,379.0	5,014,7	2.2	
1992	56,890	35,965	14, 305	385	325	34,115	2,675	820	22,775	33,290	14, 305	385	325	- 820	3,509.1	9,181.8	5,672.7	2.3	
1993	59,335	38,890	14,450	390	350	35,480	2,785	850	23,855	36,105	14,450	390	350	- 850	3,658.0	9,709.4	6,051.4	2.4	

KABUPATEN BOLAANG MONGONDOM (With Project)

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YEAR	•	AGRICULT	URAL PRO	DUCTION		LÓCAL	CÓNSUMI	*710N	SURPLUS				PRODUCTION COST	PRODUCTION PRICE	PRODUCTION BENEFIT FOOD CON		SUMPTION		
	PADDY	KAIZE	COCONUT	COFFEE	CLOVE	PADDY	MAIZE	ÒTHERS	PADDY	MA12E	COCONUT	COFFEE	CLOVE	OTHERS	MILLION Pps.	MILLION Rps.	MILLION Pps.	TRANS. COST	PRICE
1981	35,925	15,260	12,110	310	65	22,160	1,740	530	13,765	13,520	12,110	310	65	- 530	2,261.0	4,370.8	2,109.8	1.4	
1982	37,455	16,745	12,725	320	70	23,090	1,810	555	14,365	14,935	12,725	320	70	- 555	2,388.0	4,653.3	2,265.3	1.3	
1983	39,035	18,490	13,210	330	90	24,060	1,885	580	14,975	16,605	13,210	330	90	- 580	2,511.5	5,083.1	2,571.6	1.1	
1984	40,705	20, 205	13,885	345	95	25,070	1,965	600	15,635	18,240	13,855	345	95	- 600	2,650.4	5,395.5	2,745.1	1.0	
1985	42,440	22,205	14,200	355	120	26,125	2,050	625	16,315	20,155	14,200	355	120	- 625	2,772.0	5,882.3	3,110.3	0.8	
1986	44,250	24,183	14,545	365	130	27,220	2,135	655	17,030	22,045	14,525	365	130	- 655	2,891.0	6,226.5	3,335.5	0.6	
1987	46,130	26,485	14,895	360	160	28, 365	2,225	680	17,765	24,260	14,895	360	160	- 680	3,027.0	6,786.3	3,759.3	0.5	
1988	48,110	28,780	15,045	385	170	29,555	2,320	710	18,555	26,460	15,045	385	170	- 710	3,142.2	7,113.9	3,971.7	0.5	
1989	50,155	31,255	15,195	395	210	30, 795	2,415	740	19,360	28,840	15,195	395	210	- 740	3,267.3	7,747.0	4,479.7	0.6	
1990	52,315	33,690	15,345	400	225	32,090	2,520	770	20,225	31,170	15, 345	400	225	- 770	3,289.5	8,137.6	4,850.1	0.6	
1991	54,550	36,570	15,495	410	270	33,440	2,625	805	21,110	33,945	15,495	410	270	- 805	3,530.8	8,850.6	5,319.8	0.6	
1992	56,890	39,670	15,655	415	325	34,845	2,735	835	22,045	36,935	15,655	415	325	- 835	3,680.7	9,673.8	5,993.1	0.6	
1993	59,335	43,020	15,810	430	350	36,305	2,850	870	23,030	40,170	15,810	430	350	- 870	3,835.8	10,237.9	6,401.1	0.7	

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KABUPATEN BONE

- 1. Transport cost reduction
 - 101 Rps/ton.Km

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- average transportation distance 7.5 Km
- cost reduction 101^{Rps/t.Km} x 7.5 ^{Km} = 760 Rps/ton.

2. Agricultural production cost

- pađdy	55 , 080 →→	55,060 Rps/ton
- coconut	91,200 →	91,200 Rps/ton
- maize	25,700→	25,620 Rps/ton

3. Farmgate production price increase

– paddy	90,000>	90,760 Rps/ton
- coconut	115,000→	115,760 Rps/ton
- maize	60,000>	60,760 Rps/ton

4. Transport cost

- on improved road	59 Rps/ton.Km
- on non-improved road	160 Rps/ton.Km

5. Food Price

- cassava 90 Rps/Kg.

XANUPATIN BONT (without project)

	VCR	ACRICULTURAL PRODUCTION	PRODUCTI	ZO		LOCAL CONSUMPTION	MPTION			SULTURS	as		PRODUCTION		PRODUCTION	POOD CONSUMPTION	PTTON
ATAR	paddv	Cabasva+	1-2x7am	COCONUC	pady	paddy cannava"	mairet	ochera	Vbbad		coconut	ochera	× 10 ⁸ 8.	x 10 ⁶ Rps.	x 10 ⁰ Rps.	TRANS, COST	-rater-
1961	106.475	7.380	16,945 16,640	16,640	36,620	12,145	2,870	088	66.430	14.075	16,640	-5,645	5,538	8,737	3.199	4	429
1982	115,955	7,675	17,230	16.810	36,730	12,185	2,880	0#8	73.430	14.350	46,810	-5,390	5,947	707*6	3,457	4	907
1983	124.150	7.985	17.510 16.980	16,980	36,840	12,220	2,890	885	81.100	14.620	16.980	-5,120	192,3	10.129	3,738	4	381
7984	132,630	8,295	18,075	17,145	36,950	12,255	2,900	885	89.240	15,175	17,145	-4,845	6,869	10,914	4,045	-3	şç
1985	142,020	8,635	18,360	18,360 17.315	37.060	12,295	2,910	890	97.860	15.450	17,315	-4,550	7,366	11,726	6,360	c)	329
1986	152,050	8,975	18,640	18.640 17.490	37,170	12,330	2,915	890	107.275	15,715	17,490	-4,245	7,908	12.609	4.701	n	302
1987	162.670	252,9	19.205	19,205 17,665	37,280	12,365	2,925	668	117,255	16,280	17.665	-3,925	8,487	13,561	5.074	ň	5
1988	173,890	0*210		19,490 17,845	266,76	12,405	2,930	895	127,800	16,560	17,845	-3,590	9°093.	14,545	5.455	ñ	243
1089	186.150	560°01	10.095 19.770 18.020	18,020	37,505	077.21	2,940	006	139,335	16,830	18,020	-3,245	9,751	15,622	5,871	ત	211
1990	060*661	10,500	10,500 20,335 18,200	18,200	37.620	12,480	2,950	006	212,121	17,385	18,200	-2,880	10,451	58219T	6,338	6	178
1661	211.530	10.920	20,615	18,385	002.70	12,515	2,960	\$06	163,225	17.655	16,385	-2,500	121"11	17.863	6,742	64	144
1992	219.930	11,355	21,185	18,570	37.845	12,555	2.970	905	171.090	18,215	18,570	-2,105	11,584	18,626	7,042	м	108
1992	228,630	11.605	21,465	18,755	37,960	12,590	2,975	016	179,240	18, 450	18,755	-1.695	12,058	19,395	7,337		71

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KANUTATAN NONY (with project)

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TLANS	100000	677	407	C85	358	ın	304	273	240	202	170	132	16	8
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TTATAINER I	× 10°km	3,211	3,509	3,840	4,175	4,516	4,897	5,293	5,724	6,178	6.672	010.7	525.7	7,657
PRODUCTION	x 10 ⁰ Rpe.	8,749	127'6	10,260	880' TT	156.11	212,915	916,61	010,81	76,154	314,71	18,237	19,050	168.61
PRODUCTION (PRODUCTION (PRODUCTION) PRODUCTION (PRODUCTION)	x 10°Rps.	5,538	5,962	6,420	6,913	7.435	8,018	H, 623	9,286	9,276	10,745	11,247	11.727	12,234
	others	-5,645	-5,430	-5,150	-4,880	-4,590	-4,295	-3,945	-3,600	-3,245	-2,835	-2,425	-1,985	-1,530
50	COCONUE	16,640	16,810	16,980	17,145	210,71	17,490	17,665	17.845	18.020	18.200	18,385	18,570	18,755
รถานกุมกร	maike +	570, AL	24.430	15,085	15,450	15,825	16,495	16,880. 17,665	17,265	17,955	18,345	19,050	19,455	20,170
-	paddy	66.430	72,695	61,450	69,960	94,995	108,945	119,505	131,060	142,985	156.395	264.960	173,180	181,745
	others	880	885	568	006	016	920	925	555	945	950	960	970	975
NOTTON	The 2 H Bot	2,870	2,900	2,925	2,950	2.975	3.005	3.030	3,055	3,085	3,115	3,140	3,170	3,200
LOCAL CUNSTRATION	CAMBAVA+	.12,145	12,255	12,365	12,480	12,590	12,705	12.820	12,935	13.050	13.165	13,285	13,405	13,525
-	paddy	36,620	36,950	37.280	37.615	37,955	38,295	38,640	38,990	39,340		40,050	014,04	40,775
3	coconut	16.640	16,810	16.980	17.145	210.71	17.490	17,665	17,845	18,020	18,200	18,385	18.570	18,755
PRODUCTIC	mater		066,71	010.81	18.400	18,800	19,500	19,910	20,320	21,040	21.460	22,190	22,625	23.370
ACRICULTORAL PRODUCTION	Casesavat	7.280	051,7	8,110	8,500	8,910	000.0	9.790	10,270	10.750	11.280	11.820	060.21	12.970
Ş	paddy	342,801	074,611	, 124, 980	134.290	091.441	066"751	166.470	179,000	191.920	206,410	215,800	224.830	234,230
	NP.	1981	1982	1983	7987	.1985	1986	1987	1988	1989	- 066T	1991	1992	C661

KABUPATEN BUTON

1. Reduction of transport cost

- 170 Rps./ton.km.
- Average transport distance 20.25 km.
- Cost reduction 170 Rps./ton.km x 20.25 km = 3,443 Rps./ton.

2. Agricultural production cost

-	Cassava	21,380	\rightarrow	21,380	Rps./ton
-	Kaize	25,700	>	25,350	Rps./ton
-	Coconut	91,200	~~>	91,200	Rps./ton
-	Coffee	138,000		138,000	Rps./ton

3. Faregate price

- Cas	sava	40,000	>	43,440	Rps./ton
- Pai	ze	60,000	\rightarrow	63,440	Rps./ton
- Cóc	onut	115,000	>	118,440	Rps./ton
- Cộf	fee	960,000	>	963,440	Rps./ton

4. Transport cost

-	On improved road	59	Rp./ton.km
-	On non-irproved road	229	Pp./ton.km

5. Market price of consumption

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-	Rice	225	Fps./kg
-	Cassava	90	Fps./kg
-	Kaize	175	Rps./kg

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KABUPATEN BUTON (Without Project)

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		JKAL PR	DUCTION		LÓCAL	, CONSUMP	TION .		S	URI	<u>LU</u>	k		PRODUCTION COST	PRODUCTION PRICE	PRODUCTION BENEFIT	FOOD CON	SUMPTION
PADDY	CASSAVA	MAIZE	COCONUT	COFFEE	PADDY	CASSAVA	KA12E	others	CASSAVA	MAIZE	COCONUT	COFFEE	OTHERS	MILLION Rps.	MILLION Rps.	HILLION Rps.	TRANS. COST	PRICE
9,235	69,245	11,125	2,960	90	28,155	9,340	2,205	675	59,905	8,920	2,960	90	- 12,975	1,792.4	3,327.6	1,535.2	60.2	2,724,5
9,890	74,220	11,570	2,980	90	28,210	9,350	2,210	676	64,860	9,360	2,980	90	- 12,400	1,911.5	3,585,1	1,673.6	57.5	2,638.1
10,595	79,370	12,035	3,015	100	28,270	9,375	2,215	675	69,935	9,820	3,015	100	- 12,000	2,023.8	3,831.7	1,807.9	\$Š.6	2,548.1
11, 315	85,065	12,515	3,045	100	28, 325	9,395	2,220	680	75,670	10,295	3,045	100	- 11,565	2,160.1	4,090.7	1,930.6	53.6	2,449.5
12,105	91,090	13,010	3,075	100	28,380	9,415	2,225	680	81,675	10,785	3,075	100	- 11,095	2,303,8	4,363.7	2,0\$9.9	51.5	2,343.6
12,955	97,580	13,535	3,105	105	28,440	9,435	2,230	680	88,145	11,305	3,105	105	- 10,590	2,458.3	4,662.0	2,203.7	49.1	2,229,8
13,850	104,555	14,075	3, 140	105	28,495	9,450	2,230	685	95,105	11,845	3,140	105	- 10,055	2,624.1	4,976.8	2,352.7	46.6	2,108,9
14,830	111,900	14,640	3,170	110	28,550	9,470	2,235	685	102,430	12,495	3,170	110	- 9,465	2,797.8	5,311.7	2,513.9	43,9	1,975.7
15,860	119,905	15,225	3,205	110	28,610	9,490	2,240	685	110,415	12,935	3,205	110	- 8,845	2,986.7	5,669.9	2,683.2	41.0	1,836.0
16,975	128, 325	15,835	3,230	115	28,665	9,510	2,245	685	118,815	13,5%	3,230	115	- 8,165	3,200.0	6,049.9	2,849.9	37.9	1,683.4
18,175	137,500	16,470	3,265	115	28,725	9,530	2,250	690	127,970	14,220	3,265	115	- 7,440	3,415,1	6,457.9	3,042.8	34.5	1,519.2
19,440	149,680	17,125	· 3,300	115	28,780	9,545	2,255	690	140,135	14,870	3,300	115	- 5,975	3,679.2	6,987.5	3, 308. 3	27.7	3,345,0
20,795	157,635	17,810	3,330	120	28,840	9,565	2,260	690	148,070	15,550	3,330	120	- 5,840	3,869.1	7,354.0	3,484.9	27.1	1,158.5
	9,890 10,595 11,315 12,105 12,955 13,850 14,830 15,860 16,975 18,175 19,440	9,890 74,220 10,595 79,370 11,315 85,065 12,105 91,090 12,955 97,580 13,850 104,555 14,830 111,900 15,860 119,905 16,975 128,325 18,175 137,500 19,440 149,680	9,89074,22011,57010,59579,37012,03511,31585,06512,51512,10591,09013,01012,95597,58013,53513,850104,55514,07514,830111,90014,64015,860119,90515,22516,975128,32515,83518,175137,50016,47019,440149,68017,125	9,89074,22011,5702,98010,59579,37012,0353,01511,31585,06512,5153,04512,10591,09013,0103,07512,95597,58013,5353,10513,850104,55514,0753,14014,830111,90014,6403,17015,860119,90515,2253,20516,975128,32515,8353,23018,175137,50016,4703,26519,440149,68017,1253,300	9,89074,22011,5702,9809010,59579,37012,0353,01510011,31585,06512,5153,04510012,10591,09013,0103,07510012,95597,58013,5353,10510513,850104,55514,0753,14010514,830111,90014,6403,17011015,860119,90515,2253,20511016,975128,32515,8353,23011519,440149,68017,1253,300115	9,69074,22011,5702,9809028,21010,59579,37012,0353,01510028,27011,31585,06512,5153,04510028,32512,10591,09013,0103,07510028,38012,95597,58013,5353,10510528,44013,850104,55514,0753,14010528,49514,830111,90014,6403,17011028,55015,860119,90515,2253,20511028,61016,975128,32515,8353,23011528,65518,175137,50016,4703,26511528,780	9,89074,22011,5702,9809028,2109,36010,59579,37012,0353,01510028,2709,37511,31585,06512,5153,04510028,3259,39512,10591,09013,0103,07510028,3809,41512,95597,58013,5353,10510528,4409,43513,650104,55514,0753,14010528,4959,45014,830111,90014,6403,17011028,5509,47015,860119,90515,2253,20511028,6109,49016,975128,32515,8353,23011528,6659,51018,175137,50016,4703,26511528,7259,53019,440149,68017,1253,30011528,7809,545	9,89074,22011,5702,9809028,2109,3602,21010,59579,37012,0353,01510028,2709,3752,21511,31585,06512,5153,04510028,3259,3952,22012,10591,09013,0103,07510028,3809,4152,22512,95597,58013,5353,10510528,4409,4352,23013,850104,55514,0753,14010528,4959,4502,23514,830111,90014,6403,17011028,5509,4702,23515,860119,90515,2253,20511028,6109,4902,24016,975128,32515,8353,23011528,6659,5102,24518,175137,50016,4703,26511528,7809,5452,25519,440149,68017,1253,30011528,7809,5452,255	9,89074,22011,5702,9809028,2109,3602,21067610,59579,37012,0353,01510028,2709,3752,21567511,31585,06512,5153,04510028,3259,3952,22068012,10591,09013,0103,07510028,3609,4152,22568012,95597,58013,5353,10510528,4409,4352,23068013,850104,55514,0753,14010528,4959,4502,23068514,830111,90014,6403,17011028,5509,4702,23568515,660119,90515,2253,20511028,6109,4902,24068516,975128,32515,8353,23011528,6659,5102,24568518,175137,50016,4703,26511528,7259,5302,25569019,440149,68017,1253,30011528,7809,5452,255690	9,690 74,220 11,570 2,980 90 28,210 9,360 2,210 676 64,660 10,595 79,370 12,035 3,015 100 28,270 9,375 2,215 675 69,995 11,315 85,065 12,515 3,045 100 28,325 9,395 2,220 680 75,670 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 12,955 97,580 13,535 3,105 105 28,440 9,435 2,230 680 89,145 13,850 104,555 14,075 3,140 105 28,495 9,450 2,230 685 95,105 14,830 111,900 14,640 3,170 110 28,550 9,470 2,235 685 102,430 15,860 119,905 15,225 3,205 110 28,610 9,490 2,240 685 110,415 16,975 128,325 15,835 3,230 115 28,655 9,510 2,245 6	9,690 74,220 11,570 2,980 90 28,210 9,360 2,210 676 64,860 9,360 10,595 79,370 12,035 3,015 100 28,270 9,375 2,215 675 69,935 9,820 11,315 85,065 12,515 3,045 100 28,220 9,375 2,220 680 75,670 10,295 12,105 91,090 13,010 3,075 100 28,325 9,395 2,220 680 75,670 10,295 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 10,785 12,955 97,580 13,535 3,105 105 28,440 9,435 2,230 680 89,145 11,305 13,650 104,555 14,075 3,140 105 28,445 9,450 2,230 685 95,105 11,845 14,830 111,900 14,640 3,170 110 28,610 9,490 2,240 685 102,430 12,495	9,690 74,220 11,570 2,980 90 28,210 9,360 2,210 676 64,860 9,360 2,980 10,595 79,370 12,035 3,015 100 28,270 9,375 2,215 675 69,935 9,820 3,015 11,315 85,065 12,515 3,045 100 28,325 9,395 2,220 680 75,670 10,295 3,045 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 10,785 3,015 12,955 97,580 13,535 3,105 105 28,440 9,435 2,230 680 88,145 11,305 3,105 13,850 104,555 14,075 3,140 105 28,495 9,450 2,230 685 95,105 18,815 3,105 14,830 111,900 14,640 3,170 110 28,550 9,470 2,235 685 102,430 12,435 3,1205 15,860 119,905 15,225 3,205 110 <	9,133 0,143 11,153 1,163 1,063 1,075 1,063 1,063 1,063 1,063 </td <td>9,690 74,220 11,570 2,980 90 28,210 9,350 2,210 676 64,660 9,360 2,980 90 -12,400 10,555 79,370 12,035 3,015 100 28,270 9,375 2,215 675 69,995 9,820 3,015 100 -12,400 11,315 85,065 12,515 3,045 100 28,325 9,395 2,220 660 75,670 10,295 3,045 100 -11,565 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 10,785 3,045 100 -11,955 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 10,785 3,045 100 -11,955 12,955 97,580 13,535 3,105 105 28,440 9,435 2,230 685 95,105 11,815 3,140 105 -10,955 13,650 104,555 14,075 3,140 105 2,235 68</td> <td>9,733 03,743 11,125 11,125 15,000 11,125 1,125 3,015 100 28,225 9,395 2,215 675 69,935 9,820 3,015 100 -12,000 2,023,8 11,315 85,065 12,515 3,045 100 28,325 9,395 2,220 660 75,670 10,295 3,045 100 -11,565 2,160.1 12,105 91,090 13,010 3,075 100 28,380 9,415 2,220 660 81,455 10,785 3,075 100 -11,955 2,303,8 12,935 97,580 13,535 3,105 105 28,440 9,435 2,230 665 95,165 11,815 3,100 105 2,458,3 13,650 14,075 3,140 105 28,495 9,450</td> <td>9,233 09,143 11,113 <</td> <td>9,723 09,743 11,129 11,129 11,00 100 11,000 11,000 1</td> <td>9,25 69,48 11,15 2,960 90 28,10 9,400 20,10 676 64,60 9,360 2,900 90 1,610</td>	9,690 74,220 11,570 2,980 90 28,210 9,350 2,210 676 64,660 9,360 2,980 90 -12,400 10,555 79,370 12,035 3,015 100 28,270 9,375 2,215 675 69,995 9,820 3,015 100 -12,400 11,315 85,065 12,515 3,045 100 28,325 9,395 2,220 660 75,670 10,295 3,045 100 -11,565 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 10,785 3,045 100 -11,955 12,105 91,090 13,010 3,075 100 28,380 9,415 2,225 680 81,675 10,785 3,045 100 -11,955 12,955 97,580 13,535 3,105 105 28,440 9,435 2,230 685 95,105 11,815 3,140 105 -10,955 13,650 104,555 14,075 3,140 105 2,235 68	9,733 03,743 11,125 11,125 15,000 11,125 1,125 3,015 100 28,225 9,395 2,215 675 69,935 9,820 3,015 100 -12,000 2,023,8 11,315 85,065 12,515 3,045 100 28,325 9,395 2,220 660 75,670 10,295 3,045 100 -11,565 2,160.1 12,105 91,090 13,010 3,075 100 28,380 9,415 2,220 660 81,455 10,785 3,075 100 -11,955 2,303,8 12,935 97,580 13,535 3,105 105 28,440 9,435 2,230 665 95,165 11,815 3,100 105 2,458,3 13,650 14,075 3,140 105 28,495 9,450	9,233 09,143 11,113 <	9,723 09,743 11,129 11,129 11,00 100 11,000 11,000 1	9,25 69,48 11,15 2,960 90 28,10 9,400 20,10 676 64,60 9,360 2,900 90 1,610

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KABUPATEN BUTON (With Project)

	NORTCODE	URAL PRO	DUCTION		LOCAL	CONSUMP	tion		\$	UR	PLUŚ	3		PRODUCTION COST	PRODUCTION PRICE	PRODUCTION BENEFIT	FÓOD CON	SUXPTION
PADDY	CASSAVA	VAISE	COCONUT	COPFEE	PADDY	CASSAVA	MAIZE	OTHERS	CASSAVA	MAIZE	COCONUT	COFFFE	OTHERS	HILLION Rps.	MILLION Rps.	HILLION Rps.	TRANS. COST	PRICE
9,235	69,240	11,125	2,960	90	28,155	9,340	2,205	675	59,900	8,920	2,960	ÓŚ	- 12,785	1,792.0	3,377.8	1,585.8	55.8	2,724.5
9,690	74,395	11,780	3,035	95	28,215	9,360	2,210	675	65,035	9,570	3,035	95	- 12,405	1,925.5	3,682.7	1,7\$7.2	46.8	2,638.8
10,575	80,015	12,450	3,115	100	28,275	9,380	2,215	675	70,635	10,235	3,115	100	- 12,005	2,069.6	4,015.2	1,945.6	38.3	2,548.8
11,315	86,050	13,140	3,195	100	28,335	9,400	2,220	660	76,650	10,920	3,195	100	- 11,570	2,222.4	4,365.9	2,143.5	30.6	2,450,9
12,105	92,460	13,850	3,275	105	28,390	9,420	2,225	680	83,040	11,635	3,275	105	- 11,100	2,384.5	4,750.1	2,365.6	22.8	2,345.0
12,955	99,485	14,590	3,355	110	28,450	9,440	2,230	680	90,045	12,360	3,355	110	- 10,595	2,560.0	5,169.9	2,609.9	15.6	2,231.3
13,850	106,900	15,355	3,430	110	28,510	9,460	2,235	685	97,440	13,120	3,430	110	- 10,065	2,743.9	5,577.7	2,833.8	12,0	2,111.0
14,830	114,980	15,995	3,465	115	28,570	9,480	2,240	685	105,500	13,755	3,465	115	- 9,480	2,936.2	5,977.1	3,040.9	11.3	1,978.6
15,860	123,615	16,670	3,500	120	28,630	9,500	2,240	685	114,415	14,430	3,500	120	- 8,855	3,147.6	6,416.2	3,268.6	10.6	1,838.9
16,975	1 32, 885	17,370	3,535	120	28,690	9,515	2,245	685	123,370	15,125	3,535	120	- 8,180	3,360.0	6,853.4	3,493.4	9.8	1,687.0
18,175	142,660	18,095	3,575	120	28,750	9,535	2,250	690	133,325	15,845	3,575	120	- 7,460	3,594.8	7,336.3	3,741.5	8.9	1,522,8
19,440	153,530	18,855	3,610	125	28, 810	9,555	2,255	690	143,975	16,600	3,610	125	- 6,685	3,845.5	7,855.9	4,010.4	8.0	1,349,3
20,795	165,070	19,650	3,645	130	28,875	9,580	2,260	690	155,490	17,390	3,645	130	- 5,860	4,115.6	8,415.2	4,299.6	7.0	1,163.5
	9,890 10,575 11,315 12,105 12,955 13,850 14,830 15,860 16,975 18,175	9,69074,39510,57580,01511,31586,05012,10592,46012,95599,48513,850106,90014,830114,96015,860123,61516,975132,88518,175142,86019,440153,530	9,69074,39511,78010,57580,01512,45011,31586,05013,14012,10592,46013,85012,95599,48514,59013,850106,90015,35514,830114,96015,99515,860123,61516,67016,975132,88517,37018,175142,66018,055	9,89074,39511,7803,03510,57580,01512,4503,11511,31586,05013,1403,19512,10592,46013,8603,27512,95599,48514,5903,35513,850106,90015,3553,43014,830114,96015,9953,46515,860123,61516,6703,53518,175142,86018,0953,57519,440153,53018,8553,610	<table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-row><table-row><table-row><table-row><table-row><table-container><table-container><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row><table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-row></table-container></table-container></table-row></table-row></table-row></table-row></table-row></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container>	9,89074,39511,7803,0359528,21510,57580,01512,4503,11510028,27511,31586,05013,1403,19510028,33512,10592,46013,8603,27510528,39012,95599,48514,5903,35511028,45013,850106,90015,3553,43011028,51014,830114,98015,9553,46511528,63015,660123,61516,6703,50012028,63016,975132,68517,3703,53512028,63018,175142,66018,0553,61012528,810	9,69074,39511,7803,0359528,2159,36010,57580,01512,4503,11510028,2759,38011,31586,05013,1403,19510026,3359,40012,10592,46013,8603,27510528,3909,42012,95599,48514,5903,35511028,4509,40013,850166,90015,3553,43011028,5109,46014,830114,96015,9953,46511528,5709,46015,660123,61516,6703,53512028,6309,51518,175142,66018,0953,61012528,8109,555	9,89074,39511,7803,0359528,2159,3602,21010,57580,01512,4503,11510028,2759,3802,21511,31586,05013,1403,19510028,3359,4002,22012,10592,46013,6803,27510528,3909,4202,22512,95599,48514,5903,35511028,4509,4402,23013,85016,6703,43011028,5109,4602,24514,830114,98015,9953,46511528,5709,4802,24015,66013,53512028,6309,5152,24516,975132,68517,3703,53512028,6909,5152,24518,175142,66018,0953,51512028,7509,5352,25519,440153,53018,8553,61012528,6109,5352,255	9,89074,39511,7803,0359528,2159,3602,21067510,57580,01512,4503,11510028,2759,3802,21567511,31586,05013,1403,19510028,3359,4002,22068012,10592,46013,8603,27510528,3909,4202,22568012,95599,48514,5903,35511028,4509,4602,23568513,65016,69015,3553,43011028,5109,4602,24068514,830114,98015,9953,46511528,5709,4602,24068515,660123,61516,6703,50012028,6309,5002,24068516,975132,68517,3703,53512028,6309,5152,24568518,175142,66018,0953,61012528,6109,5152,25569019,440153,53018,8553,61012528,8109,5552,255690	9,89074,39511,7803,0359528,2159,3602,21067565,03510,57580,01512,4503,11510028,2759,3802,21567570,63511,31586,05013,1403,19510028,3359,4002,22066076,65012,10592,46013,6803,27510528,3309,4202,22566083,04012,95599,48514,5903,35511028,4509,4402,23066090,04513,650106,90015,3553,43011028,5109,4602,225668597,44014,830114,96015,9553,46511528,5709,4802,2406685105,50015,660123,61516,6703,53512028,6309,5002,2456685123,37018,175142,68018,0953,57512028,6909,5152,2456685123,37019,440153,53018,6553,61012528,8109,5552,255690133,325	9,89074,39511,7803,0359528,2159,3602,21067565,0359,57010,57580,01512,4503,11510028,2359,3802,21567570,63510,23511,31586,05013,1403,19510028,3359,4002,22066076,65010,92012,10592,46013,6603,27510528,3909,4202,22566083,04011,63512,95599,48514,5903,35511028,4509,4402,23066090,04512,36013,850166,99015,3553,43011028,5109,4602,23566597,44013,12014,830116,9953,46511528,5709,4602,240665105,50013,17515,660123,61516,6703,55512028,6309,5002,240665114,41514,43016,975132,88517,3703,53512028,6309,5152,245665123,37015,12518,175142,66018,0953,57512028,6309,5152,24566513,33215,12518,175142,66018,0953,57512028,6309,5152,245665123,37015,12518,175142,66018,0953,57512028,6309,5152,24566913,32515,64519,44015,35316,60013,555<	9,89074,39511,7803,0359528,2159,3602,21067565,0359,5703,03510,57580,01512,4503,11510028,2759,3802,21567570,63510,2153,11511,31586,05013,1403,19510028,3359,4002,22066076,65010,9203,19512,10592,46013,6603,27510528,3909,4202,22566083,04011,6353,27512,95599,48514,5903,35511028,4509,4602,23066090,04512,3603,35513,850166,90015,3553,43011028,5109,4602,23566597,44013,1203,43014,83014,99015,9553,46511528,5709,4602,240665105,50013,7553,46515,660123,61516,6703,50511228,6309,5002,240665105,50013,7553,46514,83014,99015,9553,64511228,6309,5052,240665105,50013,7553,46516,67114,96015,9553,63512028,6309,5152,245665105,50013,7553,53516,975132,68517,3703,53512028,6309,5152,245665123,37015,1253,54516,975122,6853,575120 <td< td=""><td>9,89074,39511,7803,0359528,2159,3602,21067565,0359,5703,03595510,57580,01512,4503,11510026,2759,3802,21567570,63510,2253,11510011,31586,05013,1403,19510028,3359,4002,22066076,65010,9203,19510012,10592,46013,6803,27510528,3309,4202,22566083,04011,6353,27510512,10599,46314,5903,25510528,3909,4202,225668080,04512,3603,45511013,65099,46314,5903,35511028,4509,4402,230668090,04512,3603,45511014,83016,67015,3553,43011028,5109,4602,235668597,44013,1203,45511014,83014,94015,9553,46511528,5709,4802,240665105,50013,7553,46511515,660123,61516,6703,55512026,6909,5152,245669013,32515,1453,53512016,975132,62516,09013,35512028,7509,5352,2556690133,32515,1453,53512016,175142,66016,0953,61012528,8109,5552,255<t< td=""><td>9,690 74,395 11,780 3,035 95 28,215 9,360 2,210 675 65,035 9,570 3,035 95 12,465 10,575 80,015 12,450 3,115 100 28,275 9,380 2,215 675 70,635 10,235 3,115 100 -12,055 11,315 86,050 13,140 3,195 100 28,335 9,400 2,220 660 76,650 10,920 3,195 100 -11,570 12,105 92,460 13,860 3,275 105 28,330 9,420 2,225 660 83,040 1,635 3,275 105 -11,100 12,105 92,460 13,860 3,255 110 28,450 9,440 2,230 660 90,405 1,635 3,455 110 -10,555 13,650 16,690 15,355 3,465 116 28,570 9,460 2,240 665 105,500 13,755 3,465 115 9,460 14,830 144,96 15,955 3,465 115 28,570 9,460</td><td>9,69074,39511,7803,0359528,2159,3602,21067565,0359,5703,0359512,4051,925.510,57580,01512,4503,11510028,2759,3802,21567570,63510,2153,115100- 12,0052,069.611,31586,05013,1403,19510028,3359,4002,22066076,65010,9203,195100- 11,5702,222.412,10592,46013,6803,27510528,3309,4402,22566083,04011,6353,275105- 11,1002,384.512,95599,46514,5903,35511028,4509,4402,23066090,04512,3603,455110- 10,5952,560.013,65016,69015,5553,43011028,5109,4602,23568597,4013,1203,430110- 10,6952,743.914,80016,99015,5553,43011028,5109,4602,245685105,5013,7553,46511,602,936.215,660114,99015,9553,46511528,5109,4602,245685105,5013,1203,455110- 10,6952,743.914,80014,99015,9553,46511528,6309,5052,245685114,11514,4303,500120- 8,8553,147.616,915132,66514,9</td><td>9.800 74,305 11,700 3.035 95 28,215 9,360 2,210 675 65,035 9,505 3,035 95 1,925.5 3,682.7 10,575 80,015 12,450 3,115 100 28,275 9,380 2,215 675 70,635 10,215 3,115 100 2,029.6 4,015.2 11,315 86,050 13,140 3,195 100 28,335 9,400 2,220 660 76,650 10,205 3,115 100 2,124.4 4,365.9 12,105 92,460 13,660 3,275 105 28,330 9,402 2,225 660 76,650 10,255 100 2,136.5 4,750.1 12,955 92,460 13,680 3,255 101 28,450 9,460 2,220 660 90,465 1,205 11,00 2,364.5 4,750.1 12,955 9,486 14,590 1,535 3,465 14,99 3,455 110 2,364.5 5,797.1</td><td>1.1.1.1 1.1.1.2 <t< td=""><td>1.1.1 1.1.1.1 1.1.1 1.1.1 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12,105 92,460 13,860 3,275 105 28,330 9,420 2,225 660 83,040 1,635 3,275 105 -11,100 12,105 92,460 13,860 3,255 110 28,450 9,440 2,230 660 90,405 1,635 3,455 110 -10,555 13,650 16,690 15,355 3,465 116 28,570 9,460 2,240 665 105,500 13,755 3,465 115 9,460 14,830 144,96 15,955 3,465 115 28,570 9,460</td><td>9,69074,39511,7803,0359528,2159,3602,21067565,0359,5703,0359512,4051,925.510,57580,01512,4503,11510028,2759,3802,21567570,63510,2153,115100- 12,0052,069.611,31586,05013,1403,19510028,3359,4002,22066076,65010,9203,195100- 11,5702,222.412,10592,46013,6803,27510528,3309,4402,22566083,04011,6353,275105- 11,1002,384.512,95599,46514,5903,35511028,4509,4402,23066090,04512,3603,455110- 10,5952,560.013,65016,69015,5553,43011028,5109,4602,23568597,4013,1203,430110- 10,6952,743.914,80016,99015,5553,43011028,5109,4602,245685105,5013,7553,46511,602,936.215,660114,99015,9553,46511528,5109,4602,245685105,5013,1203,455110- 10,6952,743.914,80014,99015,9553,46511528,6309,5052,245685114,11514,4303,500120- 8,8553,147.616,915132,66514,9</td><td>9.800 74,305 11,700 3.035 95 28,215 9,360 2,210 675 65,035 9,505 3,035 95 1,925.5 3,682.7 10,575 80,015 12,450 3,115 100 28,275 9,380 2,215 675 70,635 10,215 3,115 100 2,029.6 4,015.2 11,315 86,050 13,140 3,195 100 28,335 9,400 2,220 660 76,650 10,205 3,115 100 2,124.4 4,365.9 12,105 92,460 13,660 3,275 105 28,330 9,402 2,225 660 76,650 10,255 100 2,136.5 4,750.1 12,955 92,460 13,680 3,255 101 28,450 9,460 2,220 660 90,465 1,205 11,00 2,364.5 4,750.1 12,955 9,486 14,590 1,535 3,465 14,99 3,455 110 2,364.5 5,797.1</td><td>1.1.1.1 1.1.1.2 <t< td=""><td>1.1.1 1.1.1.1 1.1.1 1.1.1 <</td></t<></td></t<>	9,690 74,395 11,780 3,035 95 28,215 9,360 2,210 675 65,035 9,570 3,035 95 12,465 10,575 80,015 12,450 3,115 100 28,275 9,380 2,215 675 70,635 10,235 3,115 100 -12,055 11,315 86,050 13,140 3,195 100 28,335 9,400 2,220 660 76,650 10,920 3,195 100 -11,570 12,105 92,460 13,860 3,275 105 28,330 9,420 2,225 660 83,040 1,635 3,275 105 -11,100 12,105 92,460 13,860 3,255 110 28,450 9,440 2,230 660 90,405 1,635 3,455 110 -10,555 13,650 16,690 15,355 3,465 116 28,570 9,460 2,240 665 105,500 13,755 3,465 115 9,460 14,830 144,96 15,955 3,465 115 28,570 9,460	9,69074,39511,7803,0359528,2159,3602,21067565,0359,5703,0359512,4051,925.510,57580,01512,4503,11510028,2759,3802,21567570,63510,2153,115100- 12,0052,069.611,31586,05013,1403,19510028,3359,4002,22066076,65010,9203,195100- 11,5702,222.412,10592,46013,6803,27510528,3309,4402,22566083,04011,6353,275105- 11,1002,384.512,95599,46514,5903,35511028,4509,4402,23066090,04512,3603,455110- 10,5952,560.013,65016,69015,5553,43011028,5109,4602,23568597,4013,1203,430110- 10,6952,743.914,80016,99015,5553,43011028,5109,4602,245685105,5013,7553,46511,602,936.215,660114,99015,9553,46511528,5109,4602,245685105,5013,1203,455110- 10,6952,743.914,80014,99015,9553,46511528,6309,5052,245685114,11514,4303,500120- 8,8553,147.616,915132,66514,9	9.800 74,305 11,700 3.035 95 28,215 9,360 2,210 675 65,035 9,505 3,035 95 1,925.5 3,682.7 10,575 80,015 12,450 3,115 100 28,275 9,380 2,215 675 70,635 10,215 3,115 100 2,029.6 4,015.2 11,315 86,050 13,140 3,195 100 28,335 9,400 2,220 660 76,650 10,205 3,115 100 2,124.4 4,365.9 12,105 92,460 13,660 3,275 105 28,330 9,402 2,225 660 76,650 10,255 100 2,136.5 4,750.1 12,955 92,460 13,680 3,255 101 28,450 9,460 2,220 660 90,465 1,205 11,00 2,364.5 4,750.1 12,955 9,486 14,590 1,535 3,465 14,99 3,455 110 2,364.5 5,797.1	1.1.1.1 1.1.1.2 <t< td=""><td>1.1.1 1.1.1.1 1.1.1 1.1.1 <</td></t<>	1.1.1 1.1.1.1 1.1.1 1.1.1 <

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