Table 1.1. List of Data Collected

- 1. Project Statement Repelita III Tanaman Pangan (1979-1983), 1978, Agricultural Extension Services Kabupaten Soppeng, Wajo and Bone.
- 2. Annual Reports in 1976 to 1977, Agricultural Extension Services Kabupaten Sidrap.
- 3. Annual Reports in 1969 to 1977, Agricultural Extension Services Kabupaten Soppeng.
- 4. Annual Reports in 1969 to 1977, Agricultural Extension Services Kabupaten Wajo.
- 5. Annual Reports in 1976 to 1977, Agricultural Extension Services Kabupaten Bone.
- 6. Annual Reports in 1974 to 1977, Agricultural Extension Services Inspection of South Sulawesi province.
- 7. Annual Report 1977/78, Sekretariat Badan Pembina Harian BIMAS Sulawesi Selatan.
- Credit for BIMAS and INMAS for paddy and polowijo crops (1970/71 - 1978/79), 1978, Indonesia People's Bank.
- 9. Livestock production in South Sulawesi Province from 1969 to 1976, Livestock Services office file.
- 10. Lembaga Penelitian Pertanian Maros (1976 and 1979), South Sulawesi Branch Research Station of CRIA.
- 11. Pedoman Ringkas Melalui BUUD/KUD dan NON BUUD/KUD 1978/79, Depot Logistik Sulawesi Selatan.
- 12. Soil Map in South Sulawesi Province 1967 Soil Research Institute in Bogor.
- 13. South Sulawesi Regional Agricultural Development Planning/ATA-140 Project February-1979. The team of the Project on South Sulawesi RADP/ATA-140 in Ujung Pandang.
- 14. Reconnaissance Survey Report on Sanrego Irrigation Project in South Sulawesi, WECON Ltd., Feb. 1974 (IND/152)
- 15. Pembuatan Peta Petak Daerah Irigasi Bila di Propinsi Sulawesi Selatan, WECON Ltd.
- 16. Penyelidikan Geologi Teknik dan Mekanika Tanah Rencana Bendung Bila di Propinsi Sulawesi Selatan, Tricon P.T., Sep. 1976 (IND/355)
- 17. Penyelidikan Geologi Teknik dan Mekanika Tanah Rencana Bendung Sanrego di Propinsi Sulawesi Selatan, Tricon P.T., Sep. 1976 (IND/360)

to be continued.

- Laporan Penyelidikan Hidrolis Dengan Model, Terhadap Rencana Bendung Bila, D.P.M.A., Jul., 1977 (IND/388)
- Laporan Penyelidikan Hidrolis Dengan Model, Terhadap Rencana Bendung Type Cascade/Double Energy Dissipator untuk Bendung Sanrego di Sulawesi Selatan, D.P.M.A., Jul., 1977 (IND/413)
- 20. Proyek Irrigasi Bila, Bagian II, WECON Ltd.
- 21. Proyek Irrigasi Bila, Bagian IV, WECON Ltd.
- 22. Provek Irrigasi Bila, Bagian V, WECON Ltd.
- 23. Proyek Irrigasi Sanrego, Bagian II, WECON Ltd.
- 24. Proyek Irrigasi Sanrego, Bagian III, WECON Ltd.
- 25. Pembuatan Peta Petak Daerah Irrigasi Sanrego, WECON Ltd.
- 26. Pengukuran Dan Penggambaran Situasi Daerah Irrigasi Langkemme di Propinsi Sulawesi Selatan, NV. Pancha Bawana.
- 27. Laporan Tahunan Tahun 1978/2 Mei 1978, P.U. Seksi Pengairan Sidrap-Enrekang.
- Laporan Pekerjaan Selama Tahun Anggaran 1977-1978, P.U. Seksi Pengairan Soppeng-Wajo.
- 29. Laporan Pekerjaan Selama Tahun Anggaran 1977-1978, P.U. Seksi Pengairan Bone.
- Cultivated Area in Propinsi Sul-Sel, Bid. Pengairan, DPUP Sul-Sel, Apr., 1978.
- 31. List of Inventry of Irrigated Area in 1978, DPUP Sul-Sel, Oct., 1978.
- 32. Exploitasi & Pemeliharaan Jaringan Irigasi, P.U. Seksi Pengairan Sidrap-Enrekang, Mar., 1978.
- 33. Luas sawah areal baku dan luas sawah areal tanam propinsi Sul-Sel. 1975/76, 1976/77 & 1977/78, DPUP Sul-Sel, Oct., 1978.
- 34. Hydrologic Considerations, Irrigation Rehabilitation Project, series B, Aug., 1971, NEDECO.
- 35. Eplanatory Note on Irrigation and Drainage, Proyek Irrigasi I.D.A. Sub-project Saddang, July 1973, NEDECO.
- 36. Second Technical Note, Design Criteria, Luwu Irrigation Project, North Luwu plan, Sulawesi Selatan, Dec., 1976, DHV, ILACO.

Name	of Kabupaten	Name	of Kecamatan
(1)	Sidrap	(1)	Panca Lautang
		(2)	Tellulimpoe
		(3)	Maritengae
		(4)	Dua Pitue
(2)	Bone	(5)	Cenrana
		(6)	Ajangale
		.(7)	Dua Boccoe
		(8)	Tellusiatting
		(9)	Ponre
		(10)	Ulaweng
		(11)	Lamuru
	· · · ·	(12)	Lappariaja
		(13)	Libureng
		(14)	Kahu
		(15)	Bonto Cani
(3)	Soppeng	(16)	Lalabata
	· · · · · · · · · · · · · · · · · · ·	(17)	Liliriaja
		(18)	Marioriawa
		(19)	Marioriwawo
		(20)	Lilirilau
(4)	Wajo	(21)	Tempe
		(22)	Tanastitolo
		(23)	Maniang Pajo
		(24)	Belawa
		(25)	Sabbang Paru
		(26)	Pammana
		(27)	Takkalalla
	•	(28)	Majauleng
		(29)	Sajoanging

Table 1.2 Name of Kabupatens and Kecamatans

Selected for Agricultural Studies

	Gross Area (ha)		Population		Total Household		Average of family	No. of Fari Household
Kab. Sidrap	233,960	100	195,980 1		38,430	100	5.10	30,744
	-	100					5,22	2,902
PancaLautang	13,800		18,940		3,627		5.14	2,518
TelluLimpoE	4,300		16,190		3,149		4.82	6,011
MariTengaE	12,100		36,230		7,514			7,743
Dua Pitue	182,500		50,540		9,679		5.22	
Sub-total	212,700	90.9	121,900 6	2.2	23,969		5.09	19,174
Kab. Bone	455,600	100	622,320 1	00	101,100	100	6.16	80,880
Cenrana	14,800		24,320		3,931	÷.,	6,19	3,145
Ajangale	17,700		47,850		7,957		5.92	6,366
DuaBoccoE	15,900		40,430		6,707		6.03	5,366
TellSiatenge	14,600		45,200		7,263		6.22	5,810
Ponre	28,800		12,690		2,465		5.15	1,972
Ulawang	21,700		44,620		8,055		5.54	6,444
Lamur	73,600		37,010		6,101		6.07	4,881
	30,200		46,480		7,233		6.43	5,786
Lappariaja Lihuwana	36,800		20,640		3,310		6.24	2,648
Libureng					4,214		6.43	3,371
Kahu	25,600		27,080				6.24	1,610
Bonto Cani	36,200	<u> </u>	12,570		2,013	50 C	6.06	47,399
Sub-total	315,300	69.2	358,890 5		59,249	58,6	0.00	47,555
Kab. Soppeng	140,000	100	241,010 1	.00	44,740	100	5.39	33,457
Lalabata	40,000		64,080		11,626		5.51	8,694
Liliriaja	18,100		49,670		9,327		5.33	6,975
Marioriawa	30,000		45,140		6,215		7.26	4,648
Marioriawo	32,000		30,380		8,300		3.66	6,027
Lili-Rilau	19,900		51,740		9,272	· · ·	5.58	7,247
Sub-total	140,000	100	241,010 1	.00	44,740	100	5.39	33,771
Kab. Wajo	246,500	100	372,060 1	.00	63,636	100	5,85	45,818
Tempe	3,800		45,550		6,985		6,52	5,029
Tanasitolo	15,400		35,210		5,786		6.09	4,166
	23,600		20,870		3,340		6.25	2,405
Maniang Pajo			36,840		6,204		5.94	4,467
Belawa	17,300				6,547		6.30	4,714
Sabang Paru	13,100		41,260				6,18	4,474
Pamana	15,500		38,380		6,214		5,55	5,788
Takkalalla	35,300		44,630		8,039			5,077
Majauleng	23,100		33,510		6,103		5.49	4,394
Sajoanging	32,100		37,590	_	7,051		5.33	
Sub-total	179,200	72.7	333,840 8	39.	7 56,269	88,4	5.93	40,514
	· · · · · · · · · · · · · · · · · · ·	:					· · · · ·	
Grand Total	847,200		1,055,640		184,227		5.73	140,858

Table 2.1 Present Agro-economic Condition of the

Objective Area (1978)

Source : Statistic Offices of Sidrap, Bone, Soppeng and Wajo Kabupatens.

Table 3.1	(1)		Analysis
			A CONTRACTOR OF A CONTRACTOR O

	·				:			·								مى جەرىم چە جەرىسەن			
	No. of	Thickness of		oH	Specific	Total	Total	Available	Cation Exchange	Ex	changea	ble Bas	2	Base Satu- ration	Free Iron	Soi	1 Parti	cle	
Soil Pits *	Soil Horizon	Horizon (cm)	H ₂ 0 (1:1)	IN. KC1 (1:1)	Gravity		Nitrogen (%)	P (ppm)	Capacity (me)	Ca (me)	Mg (me)	Na (me)	K (me)	Degree (%)	0xide (%)	Clay (%)	Silt (%)	Sand (%)	Texture
1	2-1	0-30	4.5	5.0	1.92	0.34	0.120	1.5	28.3	5.4	8,8	0.26	0.46	56.25	0,54	54.29	14.71	31.0	Clay
	2-2	30-60	6.9	5.5	2.27	0.09	0.083	4.8	28.3	4.8	9.6	0.33	0.25	52.93	0.33	69.50	7.14	21.36	Clay
	2-3	60-100	7.7	5.6	2.27	0,05	0.048	5.9	26.9	12.4	2.64	0.46	0.31	58.77	.	58.77	22.20	19.13	Clay
10	10-1	0-15	7.1	6.1	1.92	2.84	0.441	2.0	47.60	27.3	2.63	0.70	0.15	64.66	0.08	69.61	27.90	2.49	Silty clay
11	11-1	0-25	6.9	5.5	2.08	1.03	0.166	5.0	22.4	7.2	1.16	0.37	0.85	44.11	0.45	58.21	21.47	17.32	Clay
	11-2	25-50	7.2	5.7	2.27	0.15	0.143	2.5	21.0	8.0	9.6	0.59	0.27	87.90		62.30	30.00	7.70	Silty clay
	11-3	50-100	7.7	6.7	2.27	0.10	0.055	4.6	28.6	19.6	1.52	0.61	0.25	76.85	-	36.07	60.80	3.13	S. cl. 1
7	7-1	0-10	7.2	6.0	2.08	0.89	0.214	1.5	24.8	8.4	8.88	0.33	0.13	71.53	0.22	44.17	52.86	2.97	Silty clay
	7-2	10-27	7.7	5.8	2.08	0.45	0.214	2.0	34.1	9.6	8.96	0.30	0.83	57.74	- '	81.36	15.79	2.85	Clay
	7-3	27-50	7.2	6.8	2.27	1.25	0.095	5.2	28.4	21.6	1.44	0.37	0.54	84.33	-	55.05	42.74	2.21	Silty clay
	7-4	50+	7.7	7.0	2,08	0.01	0.095	5.2	24.2	11.0	11.0	0.35	0.35	93.80		32.36	62.34	5.30	Silty clay
23	23-1	0-15	4.9	4.2	2.0	0.21	0.143	2.5	3.97	0.4	0.65	0.09	0.39	36.02	0.37	9.78	30.70	59.52	Sandy loam
	23-2	15-30	5.1	5.0	2,50	0.18	0.119	1.5	8.87	2.4	1.50	0.11	0.25	48.03	-	19.20	20.43	60.37	Sandy loam
	23-3	30-100	5.2	5.1	2.0	0.28	0.071	1.5	9.10	1.72	1.52	0.26	0.38	42.64	~	26.86	12.84	60.30	S. cl. 1
27	27-1	0-40		4.5	2.0	0.42	0.167	2.4	26.1	8.80	2.72	0.48	0.61	48.31	1.04	57.32	40.06	2.62	Silty clay
	27-2	60-100	4.7	4.3	2.0	0.29	0,071	4.8	29.9	13.75	1.45	0.87	0.29	54.71	1.38	67.86	30,95	1.19	Silty clay
41	41-1	0-80	5.9	4.3	2.5	0.50	0.075	2.5	18.6	15.4	2.20	0.45	0.83	101.50	0.57	65.93	29.65	4.42	Clay
	41-2	80-100	7.4	5.9	2.27	0.88	0.036	3.2	20.4	12.8	5.12	0.73	0.87	95.69	0.49	59,56	22.08	20.36	Clay
54	54-1	0-15	6.0	5.0	2.17	1.08	0.238	2.0	36.6	16.8	1.76	0.60	1.33	55.98	0.67	68.51	29.60	1.89	Clay
	54-2	15-30	5.9	4.3	2.08	1.21	0.071	1.0	41.1	18.8	1.04	0.65	1.40	53.26	-	70.01	28.05	1.94	Clay
	54-3	30-50	6.5	5.1	2.17	0,74	0.120	1.8	42.5	18.0	1.84	0.69	1.06	50.80	-	74.74	19.00	6.26	Clay
	54-4	50-80	7.5	5.6	2.27	0.46	0.06	2.0	40.5	9.71	11.04	0.71	0.43	54.05	-	80.36	17.32	2.29	Clay
	54-5	80+	7.0	5.6	1.92	0.224	0.095	2.0	29.2	7.50	15.83	0.74	0.48	84.07	-	87.32	11.47	1.21	Clay
116	116-1	0-15	5.1	3.7	1.92	0.790	0.143		16.41	4.77	2.42	0.48	0.26	48.32	0.66	55.82	29.51	14.67	Silty clay
	116-2	15-40	6.2	3.7	1.92	0.670	0.167	2.0	11.54	2.13	2.81	0.42	0.52	50.95	~ .	44.92	37.49	17.59	Silty clay
	116-3	40-60	5.9	4.4	2.27	0.790	0.083	1.50	11.23	3.96	2,52	0.47	0.66	67.76	-	72.44	14.04	13.52	Clay
	116-4	60+	6.0	4.9	1.92	0.20	0.095	1.20	10.61	3.46	0.20	0.54	0.46	43.92	_	48.44	47.32	4.24	Silty clay
117	117-1	0-7	4.4	3.7	2.00	1.56	0.226	1.00	9.67	0.66	2.41	0.50	0.37	40.74	0.51	52.68	29.79	17.53	Silty clay
	117-2	7-17	4.5	3.7	2.08	1.17	0.143	2.50	9.33	0,36	3.53	0.61	0.09	49.20	. —	58.24	14.39	27.37	Clay
	117-3	17-65	4.8	3.7	1.79	0.65	0.155	1.50	7:23	0.12	2.10	0.41	0.11	38.31	- ma	61.30	31.17	6.71	Silty clay
	117-4	65+	5.1	3.6	1.92	0.23	0.095	2.00	7.96	0,36	3.17	0.49	0.14	51.76		86.78	3.02	10.20	Clay

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No.oof	No. of	Thickness of	P	H	Specific	Total	Total	Available	Cation	Ex	changea	ble Bas	e	Base Satu-		Soi	1 Parti	.cle	
Soil Pits *	Soil Horizon	Horizon (cm)	H20 (1:1)	IN. KC1 (1:1)	Gravity	Carbon (%)	Nitrogen (%)	P (ppm)	Exchange Capacity (me)	Ca (me)	Mg (me)	Na (me)	K (me)	ration Degree (%)	Iron Oxide (%)	Clay (%)	Silt (%)	Sand (%)	Texture
119	119-1	0-18	5.3	3.6	2.27	0.90	0.143	1.50	36.22	4.95	1.95	0.52	0.49	48.77	0.33	25.30	15.41	39.23	Loam
	119-2	18-40	5.2	3.5	2.08	0.60	0.143	8.75	18.41	3.08	3.82	0.46	0.29	41.55	-	29.53	22.84	47.63	Sandy loam
	119-3	40-60	5.1	3.5	2.08	0.78	0.075	2.50	15.33	4.12	1.67	0.59	0.23	43,69	- ,	40.40	11.58	48.02	Sandy clay
	119-4	60-100	5.4	3.5	1.78	0.67	0.119	2.0	23.56	8.42	2.82	0.70	0.40	52.38	••	25.30	33.41	39.29	Loam
	119-5	100+	5.1	3.7	1.82	1.35	0.070	1.5	22.62	14.19	1.76	0.74	0.75	77.10	**	34.57	33.33	32.10	Clay loam
64	64-1	0-10	5.5	4.2	2.27	1.46	0.167	2.0	23.50	11.80	1.69	0.56	0.29	61.02	0.85	67.09	27.80	5.11	Clay
	64-2	10-45	6.6	5.2	2.27	0.21	0.214	1.5	24.18	9.94	3.06	0.79	0.11	57.61	-	56.13	26.57	17.30	Clay
	64-3	45+	6.7	5.1	1.92	0.19	0.083	1.5	23.24	10.11	3.23	0.91	0.11	61.79		16.30	15.21	68.49	Sandy loam
99	99-1	0-20	6.1			1.99	0.441	1,86	28.57	15.14	1.14	0.87	1.81	66.40	0.95	64.99	25.37	9.63	Clay
	99-2	20-40	6.5		4 1	0,86	0.404	1.80	22.50	8.20	4.14	0.70	1.85	66,20		80.41	11.82	7.75	Clay
	99-3	40 1	5.8			0.12	0,294	1.86	24.28	7.48	5.14	0.52	1.88	61.90	0.58	66.15	21.84	12.01	Clay

Table 3.1 (2) <u>Results of Soil Analysis</u>

4

* No. 2: Chromic Vertisols

10 : Rendzinas

11 : Eutric Fluvisols

7 : Orthic Luvisol

23 : Dystric Claysols

- 41 : Eutric Fluvisols
- 54 : Eutric Fluvisols

116 : Ferric Luvisols
117 : Dystric Nitrols

119 : Ferric Luvisols

64 : Eutric Fluvisols

99 : Chromic Luvisols

Table 3.2 Soil Classification

	Area (ha)	Proportional Extent (%)
Eutirc Fluvisols	109,000	29.3
Thionic Fluvisols	15,000	4.0
Dystric Gleysols	10,000	2.7
Chromic Vertisols	40,000	10.8
Orthic Luvisols	24,000	6.4
Chromic Luvisols	104,000	28.0
Ferric Luvisols	22,000	5,9
Dystric Nitosols	2,000	0.5
Ferric Acrisols	29,000	7.8
Rendzina	4,000	1.1
Lithosol	13,000	3.5
Total	372,000	100.0

Table 3.3 Land Capability Class

	Area (ha)	Proportional Extent (%)
Class I	118,000	31.7
Class II	44,000	11.8
Class III	127,000	34.2
Class IV	83,000	22.3
Total	372,000	100.0

Table 4.1 (1) Monthly Rainfall

,

(Rainy Days)

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Annual
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(-)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1,085 (84)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2,461 (145)
(3) (6) (7) (15) (14) (14) (11) (19) (14) (7) (9) 1976 38 23 173 193 132 339 221 85 (106) 149 153 31	1,738 (95)
	2,078 (133)
(4) (6) (8) (12) (9) (18) (8) (4) (-) (7) (9) (2)	- (-)
1977 76 40 66 223 189 (340) (114) 230 0 15 195 60 (8) (6) (4) (17) (8) (-) (-) (3) (0) (1) (11) (5)	()
1978 168 17 219 176 475 568 - 232 446 294 (6) (2) (8) (7) (13) (16) (9) (16) (6)	
Kanyuara	
7010 01 00 01 100 100 100 000 000 000 00	1,742 (193)
19/0 9/ 20 140 143 00 100 100 01 0 01 1	1,177 (145)
	1,037 (138)
	1,717 (182)
Sengkang	
1975 289 112 56 30 (19)(15)(9)(10)	-
1970 93 94 00 101 100 100 100	1,391 (121)
1977 91 64 130 228 102 284 73 62 0 0 88 56 (12) (11) (8) (18) (17) (14) (10) (4) (0) (0) (10) (10)	1,178 (114)
1978 97 44 186 241 166 180 273 120 166 222 104 - (11) (12) (21) (12) (14) (21) (22) (9) (14) (11) (11)	-

Table 4.1 (2)

Monthly Rainfall

(Rainy Days)

	н 1							- 				(mm/mo	nth)
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Watan	Soppend	3		-		2					·		:
1970	13 (4)	8 (1)	51 (3)			197 (_12)		-	-	-	112 (6)	**	-
1971	48 (3)	63 (6)	55 (15)	40 (5)	188 (12)	189 (13)	166 (10)	144 (_5_)	162 (9)		55 (6)	83 (4)	1,310 (92)
1972	291	132	64 (9)	112	207	9	7	21	0	0	23	205	1,069
1973	270 (14)	279 (11)	98 (12)	316 (13)	339 (13)	324 (17)	295 (16)	161 (12)		112 (9)		103 (10)	2,834 (155)
1974	287 (14)	149 (13)	199 (13)	148 (7)	165 (12)		163 (13)	23 (4)	80 (13)	262 (16)	85 (12)	66 (11)	1,717 (134)
1975	67	39		199	220	187	240	119	170	161	83	149	1,658 (146)
1976	71	56		160	217	160	168	16	0	110	228	101	1,396 (120)
1977	254 (16)	123 (19)	132 (13)	208 (18)	129 (15)	300 (12)	51 (6)	32 (3)	0 (0)		83 (6)	186 (12)	1,498 (120)
1978	101 (-)	56 (-)	200 (-)		-	-	-	-	-	-	-		
Batu	- Batu												
1973	68 (8)	174 (8)	55 (3)	67 (8)	89 (13)	250 (8)	188 (16)	130 (14)	455 (14)		131 (11)	208 (10)	1,869 (112)
1974	52 (6)	127 (10)	81 (9)	192 (15)	77 (11)	83 (6)		10 (3)	173 (9)	161 (16)	73 (6)	32 (4)	1,165 (109)
1975		10 (4)	127 (9)	108 (13)	246 (20)	168) (11)	144 (12)	127 (7)	110 (8)	366 (14)	52 (6)		_
1976	63 (8)	25 (1)	155 (6)	42 (4)	92 (_4)	·)	119 (6)	24 (3)	0 (0)	- 0	262 (9)	31 (3)	-
1977	167	142 (7)	117 (8)	318 (9)	152 (8	243) (7)	-	53 (2)	0	0 (0)	26 (4)	52 (8)	-
					÷.,								

Table 4.1 (3) Monthly Rainfall

(Rainy Days)

· .									<u> </u>			mm/mo	nth)
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Takkal	aya												
1970	184 (5)	19 (3)	154 (4)	80 (3)		206 (8)	276 (15)		74 (3)		309 (15)		2,110 (90)
1971		-		163 (8)		314 (15)	167 (10)	101 (4)	155 (10)	139 (7)	140 (6)	119 (7)	in.
1972	244 (14)	199 (10)	71 (8)	160 (6)			0 (0)			0 (0)	17 (2)	104 (10)	936 (60)
1973	266 (16)	166 (12)	104 (10)	277 (12)			424 (19)			86 (7)	421 (6)		2,915 (137)
1974	157 (8)	156 (9)	335 (16)	121 (8)			225 (20)			-	60 (8)	76 (10)	-
1975	54 (9)		95 (7)	180 (14)	321 (24)	155 (12)			146 (13)				1,674 (138)
L976	85 (10)	25 (3)	76 (5)	186 (14)	174 (9)		137 (7)	-	1 (1)				1,491 (102)
1977		129 (9)	115 (8)	129 (11)			69 (5)	11 (3)	0 (0)	-	131 (7)		1,619 (96)
1978	_98 ()		416 ()	111 (-)									

Table 4.1 (4) Monthly Rainfall

(Rainy Days)

	جــــــــــــــــــــــــــــــــــــ				·····	· .	<u>.</u>		· · · · · ·		(mm/mor	th)
Year	Jan.	Feb.	Mar.	Apr.	May	June.	Jul.	Aug.	Sep.	Oct,	Nov.	Dec.	Annual
Maradda	ı			· .									
1971		1 (1)	5 (5)			342 (12)	143 (9)				193 (7)	154 (8)	~
1972	230 (18)	103 (5)	48 (3)	288 (10)	0 (0)	135 (12)	21 (4)	25 (1)	0 (0)	0 ()	0 (0)	180 (9)	1,030 (62)
1973	141 (13)	322 (11)	133 (9)	211 (17)	196 (11)	411 (18)	377 (12)	194 (15)	212 (11)	116 (8)	61 (7)	82 (5)	2,456 (137)
1974	22 (3)	134 (6)	129 (_9)	158 (9)		282 (10)	25 7 (18)	33 (6)	214 (10)	253 (10)	54 (_6)	29 (6)	1,742 (102)
1975	118 (7)	30 (4)	71 (7)	157 (19)		373 (17)	406 (18)	268 (12)	185 (12)	229 (14)	62 (5)	92 (7)	2,471 (142)
1976	95 (6)	40 (3)	141 (7)	400 (9)		366 (12)	130 (6)	0	0 (0)	22 (3)	102 (6)	239 (11)	1,844 (73)
1977	82 (7) [*]	35 (4)		199 (7)	132 (12)	640 (20)	52 (16)	0 (0)	0 (1)	0 (0)	6 (1)	309 (15)	1,572 (93)
1978	93 (10)	47 (7)	115 (12)	112 (11)	189 (13)	144 (15)	293 (17)	128 (9)	89 (8)	115 (7)	-	- .	-
Sakkoli													
1970	3 (2)	12 (2)	191 (8)	122 (12)	506 (25)	385 (19)	433 (20)	157 (10)	190 (13)	69 (9)	146 (10)	34 (5)	2,248 (135)
1971	36 (5)	36 (1)	17 (1)		130 (4)	161 (6)	281 (6)	361 (6)		168 (6)	0 (0)	0- (0)	1,605 (46)
1972	130 (7)	0 (0)	0 ¹ (0)	246 (6)	218 (8)	142 (8)	0 (0)		0 (0)	37 (2)	123 (7)	280 (16)	-
1973	179 (13)	99 (5)	213 (7)	-	-	0 (0)	486 (16)	293 (16)		117 (13)	0 (0)	0	-
1974	0 (0)		46 (4)				445 (18)					0 (0)	1,691 (103)
1975	45	63	46 (4)	265	437	372	253 (20)	173	521	309	126	29 (7)	2,639 (148)
1976	4	2	149 (7)	396	371 (17)	584	360	45	0	186	172	178	2,447 (117)
		81	111	29	231 (7)	405	253 (8)	44	-	40	215	311	-
1978	-	_	213	(13)	330		/			, -/	, 51		

Table 4.1 (5) Monthly Rainfall

(Rainy Days)

	•										(mm/mor	th)
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Watam	Pone												
970	91 (6)		227 (10)			379 (13)		85 (5)			73 (4)		2,488 (105)
1971	85 (7)	100 (6)	51 (1)	155 (10)		45 <u>3</u> (15)						6 (1)	2,047 (87)
1972	102 (8)	102 (7)	74 (6)			11 (2)			7 (1)		43 (1)	80 (8)	744 (60)
1973	215 (15)	146 (8)	65 (8)	153 (13)		104 (19)			333 (16)			76 (8)	2,041 (151)
1974	27 (6)	114 (12)	87 (10)	307 (11)	292 (16)	322 (11)			117 (9)	278 (7)	· · -		
1975		-	a.	-	—	-	218 (11)		110 (11)		85 (7)	105 (10)	-
1976	65 (4)	43 (6)	176 (9)	126 (10)	424 (11)	229 (9)			0 (0)		240 (11)	148 (5)	1,746 (76)
1977	45 (3)	17 (4)	246 (12)		241 (11)	391 (13)		24 (2)	-		11 (2)	91 (7)	1,243 (65)
1978	17 (2)	182 (6)	332 (14)	262 (12)		212 (9)	204 (12)		222 (8)		125 (6)		2,036 (93)

Table 4.1 (6)

Monthly Rainfall

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(Rainy Days)
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· .			·					<u></u>				(mm/mc	onth)
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Arasoe								. •			·		
1970	268	163	322	282	751	430	368	. 66	164	34	0	129	2,977
	(19)	(11)	(22)	(18)	(26)	(16)	(18)	(4)	(9)	(2)	(0)	(7)	(152)
1971	199	228	39	215	208	419	196	209	335	212	185	75	2,520
	(8)	(8)	(6)	(8)	(10)	(22)	(15)	(14)	(17)	(11)	(17)	(11)	(147)
1972	171	91	132	188	355	145	40	54	11	0	31	17 <u>3</u>	1,391
	(21)	(13)	(9)	(16)	(23)	(8)	(7)	(2)	(3)	(0)	(2)	(13)	(117)
1973	222	134	202	315	425	452	518	254	388	125	145	100	3,280
	(19)	(19)	(15)	(21)	(25)	(23)	(19)	(19)	(19)	(12)	(16)	(16)	(223)
1974	138	52	127	297	271	299	355	121	311	126	180	147	2,424
	(13)	(14)	(17)	(17)	(23)	(10)	(23)	(7)	(18)	(14)	(9)	(15)	(180)
1975	172	69	211	262	595	313	303	217	121	136	122	91	2,612
	(16)	(11)	(11)	(20)	(28)	(25)	(24)	(18)	(16)	(17)	(10)	(14)	(210)
1976	63	47	177	345	401	521	72	32	0	118	97	124	1,997
	(11)	(6)	(18)	(-)	(22)	(21)	(11)	(6)	(0)	(7)	(13)	(20)	(-)
1977	62	20	307	173	368	548	61	178	1	1	90	288	2,097
	(14)	(8)	(23)	(19)	(24)	(23)	(13)	(10)	(1)	(1)	(6)	(22)	(164)
L978	59 (11)	238 (18)	238 (21)	213 (20)	321 (20)	229 (12)	434 (21)	405 (18)				-	
Cellu					· .								
1970	201	110	277	254	697	455	431	76	128	116	172	51	2,968
	(14)	(8)	(14)	(14)	(19)	(16)	(21)	(6)	(7)	(9)	(7)	(8)	(143)
1971	-80	178	37	91	195	407	174	131	221	270	184	53	2,021
	(8)	(10)	(3)	(9)	(9)	(18)	(8)	(12)	(3)	(10)	(10)	(3)	(103)
L972	129	134	106	169	200	43.	19	5	0	0	92	79	976
	(12)	(7)	(8)	(11)	(12)	(7)	(4)	(1)	(0)	(0)	(1)	(11)	(74)
1973	159 (15)	201 (15)		234 (17)		117 (19)	317 (14)				92 (13)	86 (14)	2,550 (186)
1974	12	266	93	614	282	333	324	49	204	40	45	66	2,328
	(4)	(15)	(10)	(13)	(15)	(11)	(12)	(4)	(12)	(6)	(5)	(6)	(113)
1975	249	85	94	190	300	386	185	126	231	145	91	108	2,190
	(13)	(5)	(_8)	(14)	(19)	(20)	(14)	(12)	(18)	(12)	(8)	(7)	(150)
1976	69 (6)	103 (7)	199 (15)	244 (15)		313 (18)	26 (7)	0 (0)	0 (0)	31 (8)	462 (18)	312 (13)	2,270 (123)
1977	~	90 (7)	258 (12)	94 (9)		539 (13)	55 (4)	235 (5)	0 (0)	5 (1)		145 (12)	
L978	66	162	365	230	200	166	279	215	324	65	141	249	2,462

			1			0
Table	4.2	Mean	Monthly	Air	Temperature	(~C).

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
 Kanyuara			<u>.</u>				., <u> </u>						
1975	26.7	27.4	27.8	27.9	27.0	26.3	26.0	26.4	26.9	27.8	27.8	26.9	27.1
1976							25.8						
1977							26.7						
1978							26.9						27.0
Average	26.9	27.1	27.4	27.4	27.0	26.2	26,3	26.4	27.1	27.6	27.7	26.9	27.0
		÷ .						· .					
Sengkang				•		20.0	26.1	- - - - - - - - - - - - - 	271 1	27 A	28.0	27.8	-
1975	<u>→</u> .	÷											
1976							24.8						
1977	28,7	29.0	28.0	28.7	29.0	27.0	27.0	27.6	26.9	28.0	28.0	27.0	27.9
1978	27.5	28.0	27.5	27.3	27.6	27.8	26.1	26.3	26.6	· - .	. –		·
Average	28.0	28.5	27.9	27.9	27.8	26.6	26.0	26.3	26.7	28.2	28.1	27.8	27.5
_						1		- - -					
Camming			_	_	-	24.7	24.5	24.9	25.9	26.5	5 26.4	26.]	
1974	25.0	- 	26.0	0 25 C	25.2		24.7			-	1.1	26.1	
1975							3 24.2			5 27.3	3 27.0	25.8	3 25.7
1976													
1977							3 24.5						_
1978	26.6	5 26.2	3 26.3	3 26.1	L 26.4	1 25.3	7 24.9	9 25.5	5 25.9	1 20.			_
Average	26,1	26.2	2 26.1	26.0) 25.7	7 25.0	24.6	5 24.9	9 25.7	7 26.8	3 26.9	€ 26.2	2 25.9

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Kanyuara													
1975	95.9	95.9	96.5	85.8	82.0	82.9	90.0	95.2	93,6	90.6	87.2	88.0	90.3
1976	90.0	89.0	90.0	91.0	91.0	93.0	95.0	94.0	96.0	97.0	96.0	96.0	93.2
1977	95.0	97.0	97.0	91.5	91.0	93.9	97.0	97.0	96.3	95.8	87.5	91.4	94.2
1978	91.5	98.3	98.8	99.0	98.9	91.9	87.3	84.2	84.3	81.2	84.0	87.5	90.6
Average	93.1	95.2	95.6	91.8	90.9	90.4	92.3	92.6	92.6	91.2	88.7	90.7	92.
Sengkang					,						•		
1975	-	-	 , .	_	78.3	78.7	75.7	75.2	74.8	75.5	72.2	71.9	-
1976	70-7	66.1	68.0	69.8									68.7
1977		65.0									· · · · · ·		
1978		80.4									-	-	-
Average	73.7	70.5	72.2	74,2	76.9	80.4	77.6	74.8	75.4	71.0	74.0	75.0	74.6
Camming				1		·	i.						
1975	 _		-	·_		 1.	· _	 .	-	-	75.7	76.2	-
1976	72.3	70.3	75.4	79.8	76.5	79.0	78.2	72.1	59.9	67.8	74.6	5.78.4	73.7
1977		74.9											
1978		77.1										-	-
Average	74.8	74.1	77.1	. 77.4	77.3	77.0	78.9	75.1	68.4	70.5	5 71.9	9 78.0	75.0

Table 4.3 Mean Monthly Relative Humidity (%)

Table	4.4	Mean	Monthly	Sunshine	Duration

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Kanyuara	(ml/4	lay)					•						
1975	18.2	17.2	20.2	17.4	17.3	15.7	15.8	16.7	18.1	21.5	20.5	18.5	18.1
1976	17.1	18.4	18.5	19.9	19.1	18.4	21.5	19.3	18.9	18.9	20.1	17.3	18,9
1977	16.6	17.3	20.5	19.2	18.8	17.5	18.1	19.3	20.7	20.0	18.1	19.3	18.7
1978	18.3	17.9	17.8	18.4	19.9	19.3	19.0	17,8	18.9	20.8	18.9	18.5	18.8
Average											19,4		18.6
			•										
Sengkang 1975	(hr/ -	month) -	÷.	_	139 (4.6)		209)(6.8	221)(7.4	215) (6.9	218)(7,3	155)(5.0	- }
1976	194 (6.3)	204 (7,3)	188 (6.1)	210 (7.0)	188 (6.1)	162 (5.4)	200 (6.5)	262 (8_4)	260 (8,7)	213 (6.9)	210 (7.0)	169 (5.5)	2,460 (6.7)
1977	147 (4.7)	117 (4.2)	192 (6.2)	185 (6.2)	201 (6.5)	145 (4.8)			279 (9.3)	307 (9,9)	231 (7.7)	174 (5.6)	2,413 (6.6)
1978	155 (5.0)	145 (5.2)	162 (5.2)	169 (5.6)	211 (6.8)	178 (5.9)	198 (6.4)	194 (6.3)	183 (6.1)	-		-	-
Average	165 (5.3)	155 (5,5)	181 (5.8)	188 (6,3)	200 (6.5)	156 (5.2)	196 (6.3)	224 (7_2)	236 (7.9)	245 (7.9)	220 (7.3)	166 (5.4)	2,332 (6.4)
							·						
Camming	(%)									÷	A A . C		
1975	-	-	-		-			-		-		5 41.6	
1976											5 61.7		
1977											9 73.2	: 30.5	5 56.9
1978	42.9	3 43.	45.8	3 50.9	9 53,0	0 43.9	9 49.9	5 58.	1 59.6	5 52.	1	-	-
Average	47.9	9 50.0	5 53.4	4 56.0	52,	5 41.4	4 53.	1 64.9	8 74.0	5 64.	7 59.8	3 41.0	5 55.0

		÷.,									(m/	sec)	
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Kanyuara		·				i.							
1975	2.5	2.2	2.9	2.5	3.7	2.4	2,3	2.0	2.4	1.9	2.6	2,9	2.5
1976	2.6	2.4	2.4	2.3	2.6	2.2	2.2	2.7	3.2	2.6	1.8	2.4	2.5
1977	2.1	3.3	2.3	2.2	1.8	2.0	2.5	2.9	3.2	2.9	1.4	1.6	2.4
1978	1.6	1.7	2.2	2.1	1.7	1.0	1.8	2.3	2.1	2.9	1.7	1.9	1.9
Average	2.2	2.4	2.5	2.3	2,5	1.9	2.2	2.5	2.7	2.6	1.9	2.2	2.3
Sengkang												·	
1975		-	-	-			-	1.0	0.8	0.6	0.7	1.4	-
1976	1.3	1.5	1.5	1.1	1.3	1.2	1.5	1.8	1.6	1.3	0,9	1.5	1.4
1977	1.5	2.0	1.3	1.1	1.0	1.4	1.8	2.0	2.0	2.0	1.4	12	1.5
1978	1.2	1.2	1.0	1.1	1.1	1.0	1.1	1.4	1.3	1.3	1.0	_	-
Average	1.3	1.6	1.3	1.1	1.1	1.2	1.5	1.5	1.4	1.3	1.0	1.4	1.3
Camming													
1975	-	-	→ .	-		-		· 		-	1.4	1,9	-
1976	0.9	1.0	0.6	1.0	0.7	0.7	0,9	0.9	0.7	0.8	0.7	0.7	0.8
1977	0.8	0.9	0.8	0.7	0.6	0.6	0.8	0.8	1.0	0,8	0.9	0,9	0.8
1978	0.5	0.6	1.3	0.5	1.8	1.1	1.4	0.5	0.6	0.5	` -	. —	 ·
Average	0.7	0.8	0,9	0.7	1.0	0.8	1.0	0.7	0.8	0.7	1.0	1.2	0.9

Table 4.5 Mean Monthly Wind Velocity

······································											(m	n/mon	th)
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Kanyuara										:			
1975	174	181	189	166	230	202	192	187	140	180	204	165	2,210
1976	174	201	220	180	199	147	198	217	270	228	184	190	2,408
1977	172	132	154	144	160	140	146	143	177	205	208	151	1,932
1978	142	162	150	186	128	98	108	147	163	202	173	157	1,816
Average	166	169	178	169	179	147	161	174	188	204	192	166	2,903
Sengkang											,		
1975				_	-	116	128	159	174	135	187	159	.
1976	185	184	185	158	145	113	143	180	206	197	158	168	2,022
1977	168	177	188	131	159	110	134	175	240	303	227	181	2,193
1978	176	176	175	169	140	135	138	160	154	164	148	-	-
Average	176	179	183	153	148	119	136	169	194	200	180	169	2,006
Camming									:				
1975	-	. –		-	-	-	-	-	-	-	159	149	-
1976	160	166	145	152	120	142	146	163	157	162	132	133	1,778
1977	117	121	144	127	117	-	118	128	106	176	139	123	-
1978	114	123	132	109	95	106	96	117	129	159	~~		
Average	130	137	140	129	111	124	120	136	131	166	143	135	1,602

Table 4.6 <u>Monthly Evaporation</u>

Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Monthly	Mean I	Air Te	empera	ture	(°C)								
1970	27.3	27.5	26.4	26.3	26.6	26.8	26.5	26,3	26.4	27.4	28.1	28.7	27.0
71	26.6	26.3	26.9	26.5	26.4	25.5	24.9	25.7	26.1	26.5	26.2	26.4	26.2
72	25.5	26.2	26.4	26.4	26.4	26.2	25.5	25.2	25.6	26.8	28.0	27.4	26.3
73	26.8	27.0	26.7	27.3	26.9	26,3	25.7	25.9	26.2	27.1	26.6	26.1	26.6
.74	26.5	26.7	26.5	26.7	26.8	26.1	25.7	26.0	26.9	27.5	26.7	26.4	26.5
75	26.4	26.6	26.4	26.6	26.2	25.9	26.5	26.8	27.2	27.2	26.5	26.3	26.6
76	25.5	25.4	26.8	26.8	26.4	25.5	25.5	25.6	26.7	27.9	26,2	26.5	26.2
77	25.9	26,8	26.7	27.2	27.0	25.5	25.4	25.3	27.0	27.3	28,5	25.7	26.5
78	27.2	26.7	27.0	26.7	27.2	26,5	25.7	26.1		-	-		1 - , -,
Average	26.4	26.6	26.6	26.7	26.7	26.0	25.7	25.9	26.5	27.2	27.1	26.7	26.5
Monthly	Moan	Polat	ive H	umidi	tτν ()	%)						'	
1970	76	74	82	80	83	81	80	77	78	75	76	73	78
			86	82	82	82	82	79	81	80	83	80	83
71	87	88	86 78	82 81	82 80	82 79	82 77	79 76	81 73	80 72	83 72	80 77	83 77
71 72	87 82	88 80											
71 72 73	87	88 80 81	78	81	80	79	77	76	73	72	72	77	77
71 72 73 74	87 82 81	88 80	78 82	81 82	80 83	79 86	77 83	76 82	73 82	72 79	72 81	77 81	77 82
71 72 73 74 75	87 82 81 78	88 80 81 77	78 82 77	81 82 83	80 83 82	79 86 81	77 83 82	76 82 80	73 82 79	72 79 79	72 81 80	77 81 79	77 82 80
71 72 73 74	87 82 81 78 80	88 80 81 77 79	78 82 77 80	81 82 83 84	80 83 82 84	79 86 81 83	77 83 82 78	76 82 80 76	73 82 79 77	72 79 79 82	72 81 80 81	77 81 79 80	77 82 80 80
71 72 73 74 75 76	87 82 81 78 80 82	88 80 81 77 79 80	78 82 77 80 82	81 82 83 84 81	80 83 82 84 80	79 86 81 83 82	77 83 82 78 77	76 82 80 76 73	73 82 79 77 72	72 79 79 82 72	72 81 80 81 83	77 81 79 80 91	77 82 80 80 80

Table 4.7 (1) Meteolorogical Data at Arasoe

Table 4.7	(2)	Meteolorogical Data at Arasoe	

Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Monthly	Mean S	unshi	ne Du	ratio	n (&)							
1970	45.6	-	-	64.8	56.5	45.8	51.2	61.8	65.0	60,9	66.9	44.1	-
70	37.5	42.0	48.0	60.3	51.0	41.0	48.0	57.8	44.6	41.5	34.0	45.7	46.0
72	26.9	18.4	39.1	49.2			68.3	75.5	91.1	84.2	83.0	49.4	
73	24.0	58.3	. .	38.3	-	-	52.0	42.7	55.3	84.5	51.3	54.5	 .
74	41.5	42.0	- .	41.9	65.1	60.2	51.1	69.8	68.3	70.6	53.6	45.8	-
75	48.4	43.7	49.5	71.5	56.3	42.8	62.1	73.7	76.6	72.7	61.0	-	-
76	-	18.3	-	-		-	•••• .	-	-		-	34.4	-
77	38,9	-	-	-	69.0	-	64.8	75.0		56.9	57.9		-
78	39.7	40.8	42.1	65.2	64.2	65.5	51.0	50.0	-	-	-		 .
Average	37.8	37.6	44.7	55,9	60.4	51.1	56.1	63.3	66,8	67.3	58.2	45.7	53.7
Monthly	Evapor	ation	(mm/	month)					•			
1971	-	85	126	78	59	71	82	106	95	90	82	114	-
72	94	138	138	96	92	111 :	135	161 1	180]	186	162	139	1,632
73	112	136	97	87	85	79	80	80	99 1	17	131	109	1,212
74	146	132	147	90	92	85	83	103	98 1	.22	112	114	1,324
75	112	110	83	42	63	59	81	81_1	111	94	108	115	1,059
76	94	109	97	96	93	71	L36	186 1	.80]	66	82	130	1,440
77	133	119	142	131 3	129	129	177	208 2	233 2	289 2	271	164	2,125
78	148	158	149	160 1	63	116	123	161 -	-	-	- .	-	-
Average	120	123	122	98	97	90 :	112	136 1	42 1	52	135	126	

Land Use Categories	Area	Proportional Percentage
	(ha)	(%)
Farm land	313,640	40.9
Paddy field	184,130	24.0
Upland	96,070	12.5
Estate crop land	33,440	4,4
Non farm land	453,470	59.1
Forest land	171,730	22.4
Grass land	231,630	30,2
Fish pond	790	0.1
Swamp land	34,290	4.5
Village land	15,030	1.9
Total	767,110	100.0

Table 5.1 Present Land Use in the Objective Area

Table 5.2

Actual Multi-Cropping Index at

Kabupaten Level

		N	ame of K	abupaten	
		Sidrap	Bone	Soppeng	Wajo
1.	Total paddy field	32,100	41,900	27,700	60,900
2.	Irrigation paddy	20,500	3,400	10,000	2,500
3.	Rainfed paddy	11,600	38,500	11,700	58,400
4.	Rate of 2/1	0.64	0.08	0.46	0.04
5.	Harvested Area				
	5.1 Wet season paddy 5.2 Dry season paddy	23,100 12,900	27,500 2,000	17,400 13,600	36,800 900
6.	Radio of 5.1/1	0.72	0.66	0.80	0.60
7.	Ratio of 5.2/1	0.40	0,05	0.63	0.01
8.	Cropping ratio of paddy in dry season	0.40	0.05	0.63	0.01
9.	Harvested area of polowijo in paddy field	710	23,230	1,210	6,760
10.	Actual multi-cropping index in paddy field	1.15	1,26	1.48	0,73
11.	Total upland area	4,920	20,490	30,830	32,480
12.	Total harvested area of polowijo in upland area	620	43,660	21,240	9,640
13.	Actual multi-cropping index in upland area	0.13	2.13	0.69	0.30

				· · · · · · · · · · · · · · · · · · ·		:			·			·	·
Kabupaten/ Kecamatan	Total Paddy Field (ha)	Irrigated Paddy Field (ha)	l Rainfed Paddy Field (ha)	Rate of Irrigation Facilities	Harvest Wet Season Paddy (ha)	ed Area Dry Season Paddy (ha)	Ratio	Cropping Ratio of Paddy in Dry Season	Harvested Area of Polowijo in Paddy Field	Actual Multi- Cropping Index in Paddy Field	Total Upland Area (ha)	Total Harvested Area of Polowijo in Upland Area (ha)	
				(4) = (2) / (1)			(7)=(6)/(5)	(8)=(6)/(1)	(9)	$(10)\frac{(5)+(6)+(7)}{(1)}$	(11)	(12)	(13)=(12)/(11)
Sidrap		· · · · ·											
- · ·	5 000	2 220	2 760	0 45	2 150	1 070	0.24	0.00	220	0.00	1 240	110	0.00
Panca Lautang Tellulimpoe	5,080	2,320	2,760	0.45	3,150	1,070	0.34	0.22	230	0.89	1,240	110 140	0.09 1.00
Maritengae	2,670 11,930	1,250 10,390	1,420	0.48 0.87	1,260	1,000	0.77 0.91	0.37	0	0.85	140 220	30	0.14
Dua Pitue	12,420	6,550	1,540 5,870	0.52	7,770 10,930	7,080 3,790	0.35	0.60 0.31	290 190	1.28 1.20	3,320	340	0.14
Bone	·	· . ·			5	н 1							
	E 000		F. 000							0.00		20	0.00
Cenranae	5,080	0	5,080	0	3,640	0	0	0	120	0.73	940	20	0.02
Ajangale	4,750	0	4,750	0	3,860	0	0	0	1,920	1,21	1,060	430	0.41
Dua Boccoe	3,060	1,700	1,360	0.55	1,760	150	0.11	0.06	410	0.78	1,020	310	0.30
Tellusiatinge	4,990	640	4,350	0.12	3,200	350	0.09	0.06	510	0.80	590	120	0.20
Ponre	1,890	0	1,890	0	1,460	0	0	0	1,470	1.56	700	540	0.77
Ulaweng	920	0	920	0	660	.70	0.14	0.11	830	1.81	4,010	11,310	2.82
Lamuru	1,530	0	1,530	0	1,270	430	0.31	0.27	1,380	2.05	4,740	14,890	3.14
Lappariaja	5,400	740	4,660	0.13	4,710	610	0.13	0.11	4,190	1.76	4,270	11,100	2.60
Libureng	5,300	0	5,300	0	2,910	0	0	0	4,770	1.45	1,600	1,840	1.15
Kahu Bonto Cani	7,310 1,600	430 0	6,880 1,600	0.05 0	2,260 1,570	190 150	0,09 0,13	0.03 0.13	6,190 1,440	1.19 2.03	720 840	1,890 1,210	2.63 1.44
Doneo ouni	17000	Ű,	1,000	0	1,570	150	0.15	0.10	1110	L. 0.2	010	*/520	
Soppeng											1. T		
Lalabata	6,780	2,800	3,980	0.41	5,910	5,270	0.90	0.78	180	1.67	5,050	580	0.11
Liliriaja	6,640	2,560	4,080	0.39	5,690	5,640	0.98	0.86	220	1.77	5,050	2,940	0.56
Marioriawa	4,150	3,400	750	0,82	2,050	1,350	0.65	0.34	120	0.90	2,880	430	0.13
Marioriwawo	1,740	220	1,530	0.12	1,560	1,130	0.69	0.65	290	1,76	6,100	11,390	1.87
Lilirilau	2,920	810	2,110	0,28	2,210	250	0.14	0.10	400	1,00	11,070	5,900	0.53
Wajo													
Tempe	280	0	280	0	150	0	0	0	60	0.53	2,070	250	0.12
Tanasitolo	4,020	0	4,020	0	1,540	0 0	Ō	õ	1,070	0.64	2,360	290	0.12
Maniangpajo	7,000	520	6,480	0,07	2,760	Ū.	0	0	1,020	0.55	2,900	1,560	0.54
Belawa	4,610	1,630	2,980	0.35	2,940	750	0.28	0.17	570	0.93	5,960	240	0.04
Sabbangparu	2,510	0	2,510	0	1,370	70	0.07	0.04	260	0.70	6,110	3,030	0.49
Pammana	5,800	240	5,560	0.04	2,130	0	0	0	990	0.88	3,090	2,730	0.50
Takalalla	12,920	0	12,920	0	9,850	Ō	0	0	790	0.82	2,470	170	0.07
Majauleng	10,350	220	10,130	0.19	5,430	0	0	0	810	0.60	2,570	910	0.35
Sajoanging	15,790	0	15,790	0	10,800	0	0	0	1,190	0.76	2,630	470	0.18
Total and	159,450	36,420	123 030	0.23	104,800	29,350	0.28	0.19	31,910	1.06	85,720	75,160	0,85

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Table 5.3 Actual Multi-Cropping Index at Kecamatan Level

II - 125

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and the second							
				1 1 /0			it: ha)
Basin/system		S-tech.		Ext'ble	Total	In Object Exist.	ctive Area Irr'ble
Bila R. Basin							
Bulucenrana	6,261	-	6,261	-	6,261	6,261	6,261
Lancirang	. <u>–</u>	417	417	<u> </u>	417	417	417
Sub-total	6,261	417	6,678	_0	6,678	6,678	6,678
L. Sidenreng Bas	sin			*			·
Bilokka	•••	931	931		931	931	931
Wattae	· . -	666	510	; =	510	510	510
Bulutimorang		-	5,337		5,337	5,337	5,337
Sadang	13,560 -	_1	13,560	_/2	13,560-2	8,050	8,050
Sub-total	<u>18,897</u>	1,597	<u>20,338</u>	_0_	20,338	14,828	14,828
Outside the Obje	ective An	ea					
Tallangtallang	1 –	365	-	365	365	_	· .
Allokarajae	**	1,150	-	1,150	1,150	—	-
Sub-total	_0_	1,515		1,515	1,515	0	_0_
Total	25,158	3,529	27,016	1,515	28,531	21,506	21,506
(Technical Sys	st.	·	25,158	~	25,158	19,648	19,648)
(Semi-tech. Sy	st.		1,858	1,515	3,373	1,858	1,858)

Table 6.1 (1) Irrigation Area of the Existing System in Kab. Sidrap

/1 : Total area of Sadang System is 56,330 ha consisting of 50,330 ha of existing South System (36,770 ha in Kab. Pinrang and 13,560 ha in Kab. Sidrap) and 6,000 ha of North System (Right bank of the Sadang River under construction in Kab. Pinrang.

 $\underline{/2}$: Not included irrigable area by the pump-up plan of the Sadang Project (PROSIDA).

	Acc'a to	PU Data	Measured	1 on 1/2	5,000 Map	In Objec	tive Area
Basin/system	Technic.	S-tech.	Exist, I	Sxt'ble	Total	Exist.	Irr'ble
. Tempe Basin							. '
Latenreng (Welonge)	-	800	 _	800	800		800
Salobunne	3,500	-	2,100	-	2,100	2,100	2,100
Lajaroko	2,000	-	1,250	-	1,250	1,250	1,250
Toweleng	_	450	450	-	450	450	450
Leworang kr.	-	(1,192)	(1,192)		(1,192)		
Leworang kr.	_	(708)	(708)		(708)		
Leworang Tota	L –	1,900	1,900	· _	1,900	1,900	1,900
Tinco	·	1,500	500	1,000	1,500	500	1,500
Sub-total	5,500	6,550	6,200	1,800	8,000	6,200	8,000
Valanae R. Basin	n					1 a.	1 - s.
Talumae	** 1	800	340	. <u>-</u>	340	340	340
Akampen		1,100	1,100	-	1,100	1,100	1,100
Lalenge	~~	1,250	1,000	_	1,000	1,000	1,000
Lagarigi	-	300	200	. —	200	200	200
Paroto	-	270	270	. –	270	270	270
Takku	-	460	460	-	460	460	460
Cennae	-	214	214		214	214	214
Sub-total	_0	<u>4,394</u>	3,584	_0_	3,584	3,584	3,584
: ;				<u> 1413 - 1</u>	<u></u>		
fotal	5,500	10,234	9,784	1,800	11,584	9,784	11,584
(Technical Sy	st.		3,350	-	3,350	3,350	3,350
(Semi-tech. S			6,434	1,800	8,234	6,434	8,234

Table 6.1 (2) Irrigation Area of the Existing System in Kab. Soppeng

· .						(unit	: ha)
De altre (autorte en	Acc'g to	PU Data	Measure	ed on 1/25	,000 Map	In Objec	tive Area
Basin/system	Technic.	S-tech.	Exist.	Ext'ble	Total	Exist.	Irr'ble
Bila R. Basin							
Salodua		524	524	-	524	524	524
Belawa	-	1,500	1,500	· <u>-</u>	1,500	1,500	1,500
Sub-total	_0_	2,024	2,024	_0_	2,024	2,024	2,024
Cenranae R. Bas	in						
Bulupatila	0	240	240	0	240	240	240
Outside the Obj	ective Ar	ea	· .				
Bakka	0	288	220	0	220	0	0
Total	0	2,552	2,484	0	2,484	2,264	2,264

Table 6.1 (3) Irrigation Area of the Existing System in Kab. Wajo

	Acola to	DII Data	Measured	on 1/2	5,000 Map	In Objecti	ive Area
Basin/system	Technic.	S-tech.	Exist. E	xt'ble	Total	Exist.	Irr'ble
Valanae R. Basin	n						•
Maradda	_	900	430	·	430	430	430
Bengo	. =-	2,500	500	-	500	500	500
Tadang Jompi		400	240	• 	240	240	240
Sub-total	0	3,800	1,170	0	1,170	1,170	1,170
Cenranae R. Bas	in				. . .		
Unyi	0	2,500	1,700	800	2,500	1,700	2,500
Sub-total	0	6,300	2,870	800	3,670	2,870	3,670
(Objective Ar	ea)						
Outside the Obj	ective Ar	ea					
Lanca	-	646	646		646	—	· •••
Mico	-	83	50	-	50	-	-
Jaling	-	2,000	1,300	700	2,000	-	 .
Paccing	-	286	286	-	286	-	–
Palakka	5,540		5,540	-	5,540	-	-
Panyili	—	298	298	-	298	-	_
Tanate Buang	-	365	365	-	365	8 8	-
Pallengoreng	•••	704	704	-	704	-	
Wollangi	-	385	385	-	385	. –	-
Melle	-	399	399	-	399	-	
Pattiro	5,400	-	5,400	-	5,400	-	
Pangisoreng	-	300	180		180	_	-
Lerang	-	800	140	-	140		-
Sub-total	10,940	6,266	15,693	700	16,393		_0
						<u> </u>	
Total	10,940	12,566	18,563	1,500	20,063	2,870	3,670
(Technical S	vst.		10,940	· · ·	10,940	· -	-)
(Semi-tech.			7,623	1,500	9,123	2,870	3,670)

Table 6.1 (4) Irrigation Area of the Existing System in Kab. Bone

Table 6.2 (1)

Irrigation Area in Each Kecamatan in Kab. Sidrap

(In Technical and Semi-technical System)

							(Unit:	ha)
			Name of	Kecama	atan			·
Name of System	Mari-	Panca		Duà	Watang	Tellu	Panca	Total
Hame by by been	tengngae		Baranti	Pitue	Pulu	Limpoe	Lautang	
		<u></u>						
Sadang								
in M.P.A.	5,925	0	0	-	0		877	8,050
outside	432	824	2,900		1,354	0	0	5,510
:	C 259		2 000		1,354	1 2/0	877	13,560
total	6,357	824	2,900	-	T 1 2 2 4	1,240	0//	13,000
		:						
Bulutimorang	4,037	1,300				-		5,337
		· · ·						
_				C 261	_		_	6,261
Bulucenrana	· • • • • • • • • • • • • • • • • • • •	-	-	6,261	-	-	_	0,201
		1. A.						
Technical system	total				÷			
in M.P.A.	9,962	1,300	0	6,261	0	1,248	877	19,648
outside	432	824			1,354			5,510
0400240					1 254	1 240	077	26 160
total	10,394	2,124	2,900	6,261	1,354	1,248	877	25,158
Lancirang				292	/n	-	-	292 /1
punctrung				292 (417)仁			$(417)\frac{/1}{/1}$
							0.3.1	
Bilokka	-	***	-	-	· -	-	931	931
		, *						
Wattae	_	-	-		·	•	510	$510^{/2}$
Wallac								
		:						
Semi-tech. syste	m total							1 772/3
(in M.P.A.)				292	. /1		1,441	$\frac{1}{1}, \frac{733}{100}, \frac{7}{10}$
			÷	(417)'_=			(1,858)
					-		· · · · ·	A) 201
Total in M.P.A.	9,962	1,300	0	6,553	./]	1,248	2,318	$\frac{21,381}{(21,506)}/1$
				.(6,678)			(21,506)
Total in Kab.	10.394	2,124	2,900	6,553	1,354	1,248	2,318	26,891 /1
ICCUT IN MUST			•	(6,678	s) /1	-		$(27,016)\frac{/1}{}$
					<u>/1</u>			· · ·

Note: <u>/1</u> :

Including 125 ha in Kec. Belawa in Kab. Wajo.

 $\frac{2}{2}$: According to the PU Data, irrigation area of Wattae is 666 ha. 50 ha is an area measured on 1/25,000 maps.

/3 : Area of other semi-technical systems outside M.P.A. (Master Plan Area or Objective Area of Master Plan) is excluded.

Table 6.2 (2)

Irrigation Area in Each Kecamatan in Kab. Soppeng and Wajo (In Technical and Semi-technical Irrigation System)

					(Unit:	ha)
Name of System		Name o	f Kecamata	in	:··	
Kab. Soppeng	Mario Riawa	Lalabata	Lili Riaja	Lili Rilau	Mario Riwawo	Total
Lajaroko	1,250	0			- . [*]	1,250
Salobunne	2,100	~~ *	_	-		2,100
Sub-total (Technical sys.)	3,350	0	0			3,350
Towelang	50	400		-		450
Leworang Kr	-	1,192	-	-	-	1,192
Leworang Kn	-	708	-	-		708
Tinco	-	500	-	-	· · ·	500
Talumae	 	- '	340	-	-	340
Akampen	- - -	_	1,100	-		1,100
Lalenge	-	-	800	200		1,000
Lagarigi	-	-	50	150	-	200
Paroto	_	-	270	-	-	270
Takku	-	. –		460	_	460
Cennae		-	· -		214	214
Sub-total (Semi-tech. sys.)	50	2,800	2,560	810	214	6,434
Total	3,400	2,800	2,560	810	214	9,784
		i.				· · · · · · · · · · · · · · · · · · ·

Name of System		Name of Kecamatan										
Kab. Wajo	Mani- angpajo	Belawa	Pammana	Total in M.P.A.	Majau- leng	Total						
Salodua	524	<u> </u>	 	524	. .	524						
Lancirang /1		$125\frac{/1}{}$. –	$125^{/1}$		$125^{/1}$						
Belawa		1,500		1,500	<u>→</u>	1,500						
Bulupatira	***	•••	240	240		240						
Bakka		·			220	220						
Total (Semi-tech. sys.) 524	$\frac{1,625}{(1,500)}$ /2	240	$\frac{2,389}{(2,264)}$ /2	220	$\frac{2,609}{(2,484)}$ /2						

Note: <u>/1</u>: System in Kab. Sidrap. <u>/2</u>: Excluding area covered Excluding area covered by Lancirang System in Kab. Sidrap.

Table 6.2 (3) Irrigation Area in Each Kecamatan in Kab. Bone

(In Technical and Semi-technical Systems)

							(Unit: 1	na)
Name of System			Name o	of Keca	matan			
In MPA	Bonto- Cani	Kahu	Libureng Ponre Lamuru	Lappa- riaja	Ulaweng Ajangale Cenrana	Dua- Bocoe	Tellu- Siatting	∃ Total
Technical Sys.	0	0	0	0	0	0	0	0
Semi-tech, Sys. Maradda	-	430		_		-		430
Bengo				500		_	-	500
Tadang Jompi	·	-	-	240		-	-	240
Unyi		·	~			1,700		1,700
Sub-total	0	430	0	740	0	1,700	0	2,870
Lanca / 1		_		-	-	-	646	646
Total	0	430	0	740	0	1,700	646	3,516
· · ·								

Name of System			Name	of Kecar	natan			
Outside MPA	Awang- Pone	Pala- kka	Tanate- Riattano	Bare- g bbo	Sibu- lue	Cine	Mare Tonre Salomekk Kajuara	Total
Technical Sys.	100+	1 040*	2,400*	1 100*	: _	-	-	5,540
Palakka Pattiro	- 100	1,940*	2,400 - -	3,500*	1,650*	250*	-	5,400
Total	100*	1,940*	2,400*	4,600*	1,650*	250*	0	10,940
Semi-tech. Sys.								50
Mico	-	50	-	-	-	-		1,300
Jaling	1,300	-			-	-	-	286
Paccing	286	-	-	-	-	-	-	298
Panyili		298		-		-	-	298 365
Tanate Buang	-	300*	-	65*	-	-		704
Pallengoreng			654*		-	-	~*	
Wollang		270*		115*		-		385
Melle	· _	269*	-	130*	-		. –	399
Pangisoreng	-	-	-		-	180	-	180
Lerang	-	-7	-		-	140	- `	140
Total	1,586	1,187*	654*	360*	0	320	0	4,107
Total including	g Lanca							4,753
Total Semi-tech	nical Sy	stem:						7,623
Total Area in H			•		•			18,563

Note: <u>/1</u>: Lanca system is located outside the Objective Area (Master Plan (Master Plan Area: MPA) in Kec. Tellu Siattinge of which

western part is in MPA.

.

/2: Area with * shows approximately.

		<u>/1</u>		Y 1974/			F/Y 19	975/76	· · ·		F/Y 1	976/77			F/Y	1977/78	3		F/Y	1978/79	
Name of System	Completed	Irrigation Area Before	Expen-	Irrig	.Area	Expen-	Irriş	gation I	rea	Expen-	Irri	gation A	Area	Expen-	Ir	r ig atior	n Area	Expen	Irr	igation	Area
Mane or bybeem	Year	PELITA II	diture	Dev'ed	Acc'd	diture	Dev 'ed	Accumu	lated $\frac{/2}{}$	diture	Dev'ed	Accumu	lated /2	diture	Dev'	ed Accur	nulated /2	ditur	e Dev'e	d Accumu	ilated ^{/2}
		ha	10 ⁶ Rp	ha	ha	10 ⁶ Кр	ha	ha	3	10 ⁶ Rp	ha	ha	A.	10 ⁶ Rp	ha		ha	10 ⁶ Rp	ha	h	1a
Kab. SIDRAP		· · ·		• •			· .						بر ا							i.	
1 Bulucenrana	-	3,600 (3,600	29.6	900	4,500	30.8	797	5,297	(5,297)	39.9	•	5,297	(5,297)	20.1	· -	5,297	(5,297)	113.2	964	6,261	(6,261
2 Bulutimorang/	3	3,770	9.6	(390)	4,160	6.0	(256)	4,416	(4,416)	5.7	106	4,522	(4,522)	6.2	419	4,941	(1,491)	10.3	396	5,337	(5,337
Sub-total		7,370	39.2	1,290	8,660	36.8	1,053	9,713		45.6	106	9,819		26.3	419	10,238		123.5	1,360	11,598	<u>{11,598</u>
3 Sadang / 6	-	13,560	-	-	13,560	***		13,560		. .	-	13,560		-	-	13,560		-	-	13,560	(13,560
Total of Technica	<u>l Sys.</u>	20,930		84	22,220			<u>23,273</u>		19 62:09-0-00-00-00-00-00-00-00-00-00-00-00-00		23,379				23,798			<u> </u>	25,158	(25,158
1 Lancirang	1976	0	0	0	0	5.0	417	417	(417)	0	0	417	(417)	0.7	0	417	(417)	0.8	0	417	(417
2 Wattae	1976	0	0	0	0	0	0	0	(666)	4.9	510	510	(666)	0	0	510	(666)	0	0	510	(666
3 Bilokka	1976	0	0	0	0	0	0	0	(847)	23.0	847	847	(847)	0	43	890	(890)	0	41	931	(931
4 Tallatallang	-	0	0	0	0	0	0	0		0	0	0		0	0	0		0	0	0	(365
5 Allokarajae		0	0	0	0	0	0	0		0	0	0		0	0	0		0	0	0	(1,150
lotal of Semi-tec	h. Sys.	0	0	0	0	5.0	<u>417</u>	<u>417</u>		<u>27.9</u>	<u>1,357</u>	<u>1,774</u>	•	0.7	<u>43</u>	<u>1,817</u>		0.8	<u>41</u>	<u>1,858</u>	(3,529
fotal (Exc. Sadan	<u>g)</u>	7,370	<u>39.2</u>	1,290	8,660	<u>41.8</u>	<u>1,470</u>	<u>10,130</u>		<u>73.5</u>	1,463	<u>11,593</u>		27.0	<u>462</u>	12,055		<u>124.3</u>	1,401	<u>13,456</u>	(15,127
																				•	
Kab. SOPPENG 1 Salobunne <u>/4</u>	_	1,050 (750)	22.1	230	1,280	23.4	420	1 700	(1,600)	19.9	400	2 100	(1,200)	23.3	0	2 100	(1,400)	49.4	0	2,100	(3,500
2 Lajaroko	_	1,250 (1,250)		2.50	1,250	1.2			(1,250)	1.3	0		(1,250)	1,2	O		(1,175)	4.9	0	1,250	
2 Lajaroko Total of Technica	- 1 Sys.	2,300 (2,000)		<u>230</u>	2,530	24.6	420	2,950	(1,230)	<u>21.2</u>	400	3,350	(1,250)	24.5	<u>0</u>	3,350	(1,1))	54.3	0	3,350	
1 m . 1					050			050	(05.0)	0	50	300	(300)	0	0	300	(300)	0	150	450	(450
1 Toweleng	-	250	0	0	250	0	0	250	(250)	0			(1,192)	1.0	0		(1,192)	2.0			(1,192
2 Leworang kr	1075	1,192	0	0	1,192	0	U E0		(1, 192)	1.1	0			. 0	0	708		0	0	708	
3 Leworang kn	1975	0	15.7	650	650	0	58	708	(708)		 0	708		0	· 0	500		0	0	500	
4 Tinco		500	0	0	500	0	0	500	(500)		: 0	500			0	340		0	. 0	340	
5 Talumae	-	250	0	0	250	0	0	250	(250) (1,100)	0	0	250	(250)	0	0		(1,100)	0	0	1,100	
6 Akampeng		1,100	0	0	1,100	0	. –		<u>.</u>		0		(1,250)		0		(1,250)		0 0	1,000	
7 Lalenge		1,000	0	0	1,000	0	0	-			0	200		0,5	0	200		0.9	0	200	(300
8 Lagarigi	-	200	. O	0	200	0 0	0 50 <u>/1</u>	200 5 50	(275)	0	0			0	0	50		11.4	164	214	
9 Cennae	1978	0	0	0	. U	U	50	- 50	(50)	U	· · ·	50	(50)	v		0.0			104	614	\ <u></u>

Table 6.3 (1) Irrigation Area Developed During Recent Five Years (PELITA II)

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		· · · ·					· .														
<u></u>	Completed Year	/1 Irrigation Area Before	F/Y	1974/7	75	F/Y 1975/76				F/Y 1976/77				F/Y 1977/78				F/Y 1978/79 Expen- Irrigation Area			
Name of System			Expen- Irrig.Area			Expen-	Irri	Irrigation Area			Irrigation Area			Expen- Irrigation Area /2							
		PELITA II	diture	Dev'ed	<u>Acc'd</u>	diture		Accumu	<u>1ated /2</u>	Expen- diture	Dev'ed	Accumulated /2		diture	e Dev'ed Accumulated ¹²		diture	Dev le	ed Accumulated ⁷²		
		ha	106 _{Rp}	ha	ha	106Rp	ha	h	a	106Rp	ha	ha	L	106 _{Rp}	ha		ha	106Rp	ha	ł	ha
10 Paroto	1976	0	0	. 0	0	3.9	200	200	(270)	0	0	200	(200)	0.7	70	270	(270)	0.8	0	270	(270
11 Takku	1976	0	0	0	0	14.8	460	460	(460)	0	0	460	(460)	0.7	0	460	(460)	0.8	0	460	(460
12 Latenreng	н н	0	0	0	0	0	. 0	0	(300)	0	0	0	(300)	.0	0	0	(300)	0	0	. 0	(800
Total of Semi-tec	ch. Sys.	4,492 (3,600) 15.7	<u>650</u>	5,142	18.7	768	5,910		1.8	<u>50</u>	5,960		2.9	<u>160</u>	6,120		15.9	<u>314</u>	6,434	(9,044
<u>Total</u>	• •	6,792 (5,600	<u>) 37.8</u>	<u>880</u>	7,672	43.3	<u>1,188</u>	8,860		23.0	450	<u>9,310</u>	н 	27.4	<u>160</u>	<u>9,470</u>		<u>70.2</u>	<u>314</u>	9,784	(14,544
			1			• .						· · ·									
Kab. WAJO			:																		
l Belawa	-	1,500 (500) 0	0	1,500		. 0	1,500	(1,500)	0	0	1,500	(1,500)	0	0	1,500	(1,500)	0	0	1,500	(1,50
2 Salodua	1976	0	0	0	0	17.7	524	524	(524)	0	0.	524	(524)	0	0	524	(524)	0	0	524	(524
3 Bulupatila	1976	0	0	0	0	10.2	240	240	(240)	0	0	240	(240)	0.7	0	240	(240)	.0.8	0	240	(24
4 Bakke	1978	0	0	0	0	0	0	0	(67)	0	0	0	(100)	0	0	O	(100)	18.3	220	220	(28
Total (Semi-tech.	Sys.)	<u>1,500 (500</u>) 0		1,500	<u>27.9</u>	764	<u>2,264</u>		0	0	2,264		0.7	0	2,264		<u>19.1</u>	220	2,484	(2,55)
<u>Total (PU Seksi P</u>	Peng.)	<u>8,292 (6,100</u>	<u>) 37.8</u>	<u>880</u>	<u>9,172</u>	71.2	1,952	<u>11,124</u>		23.0	450	<u>11,574</u>		<u>28.1</u>	<u>160</u>	<u>11,734</u>		89.3	<u>534</u>	12,268	(17,09
				·																	
Kab. BONE		_.																			
l Palakka	1923	5,540	24.5	0	5,540	28.1	0	5,540	(5,540)	27.4	0	5,540	(5,540)	37.4	0	5,540	(5,540)	33.7	0	5,540	
2 Pattiro	1925	5,400	28.8	0	5,400	30.1	0	5,400	(5,400)	44.8	0	5,400	(5,400)	38.8	0	5,400	(5,400)	35.6	0 -	5,400	(5,40
Total of Technica	al Sys.	10,940 (7,000	<u>) 53.3</u>	0	10,940	58.2	0	<u>10,940</u>		72.2	0	<u>10,940</u>	:	76.2	0	10,940		<u>69.3</u>	0	10,940	(10,940
l Maradda	1920	430	0	0	430	0	0	430	(720)	0	0	430	(900)	. 0	0	430	(855)	0	0	430	(900
2 Bengo	1938	500	0	0	500	0	0	500	(2,000)	0	0	500	(2,500)	0.7	0	500	(2,500)	0.8	0	500	(2,50
3 Tadang Jompi	1976	0	0	0	0	7.4	240	240	(400)	0	0	240	(400)	Ó	0	240	(400)	Ó	0	240	(40
4 Unji	1944	1,700	0	0	1,700	. 0 .	. 0	1,700	(2,250)	0.7	0	1,700	(2,500)	0.5	0	1,700	(2,250)	0.8	0	1,700	(2,50
<u>Sub-total in Obj.</u>	Area	2,630	0	0	2,630	7.4	240	2,870		0.7	0	2,870	·	1.2	0	2,870		1.6	0	2,870	(6,30
		. .	_	_								.			~			0			
5 Lanca	1976	0	0	0	0		200	200			446	646	(646)		0	646	(646)	0	0	646	
6 Mico	1978	0	0	0	0		0	0			0	0	(83)		50	50	(83)	0	0	50	
7 Jaling	1944	1,300	0	0	1,300	2.0	0	1,300	(1,800)	1.2	0	1,300	(1,800)	3.8	0	1,300	(1,700)	1.5	0	1,300	(2,00

Table 6.3 (2) Irrigation Area Developed During Recent Five Years (PELITA II)

,		(<u>) - 110 - 77 - 77 - 77 - 77 - 77 - 77 - 7</u>	<u>/1</u>	F/Y	1974/7	'5		F/Y 1	975/76			F/Y 197	6/77			F/Y	1977/78			F/Y	1978/79	-980-18-40-40-40-40-40-40-40-40-40-40-40-40-40-
Name of System	Complete Year	Area		Expen-		g.Area	Expen- diture 10 ⁶ Rp	Irri	gation An Accumula ha	$\frac{1}{1}$ at ed $\frac{1}{2}$		Irri	gation An <u>Accumula</u> ha	ated $\frac{/2}{}$	Expen- Diture 10 ⁶ Rp	Ir	rigation ed <u>Accum</u>		Expen ditur 10 ⁶ Rp	 e Dev'e	igation d <u>Accum</u>	
8 Paccing	1978	0		. 0	0	0	0	0	0	(100)	0	0	0	(143)	13.8	229	229	(229)	0	57	286	(286
9 Panyili	1976	0		0	0	0	0	0	0	(283)	10.5	283	283	(283)	0	15	298	(238)	0	0	298	(298)
10 Wollanga	1974	0	•	8.8	229	229	0	0	229	(229)	0	137	366	(366)	0.7	19	385	(385)	0.8	0	385	(385)
11 Melle	1976	0	· ·	0	0	0	0	0	0	(399)	13.3	399	399	(399)	0	.0	399	(399)	0	0	399	(399)
12 Tanate Buang	1975	0		0	0	0	19.7	365	365	(365)	0	0	365	(365)	0	0	365	(365)	0	0	365	(365)
13 Pallengoreng(1918) 197	6 0		0	0	0	19.3	630	630	(630)	0	74	704	(704)	0	0	704	(704)	0	0	704	(704)
14 Pangisoreng	1976	0		0	0	. 0	8.4	180	180	(180)	0	0	180	(210)	0.7	0	180	(180)	0.8	Ö	180	(300)
15 Lerang	(1920)	140		. 0	0	140	0	0	140	(560)	0	0	140	(480)	0	. 0	140	(480)	0	0	140	(800)
Total of Semi-tec	n. Sys.	<u>4,070</u>	(5,000)	8.8	<u>229</u>	4,299	<u>63.3</u>	1,615	5,914		25.7	<u>1,339</u>	7,253		37.4	<u>313</u>	7,566		4.8	<u>57</u>	7,623	(12,566
<u>Total</u>		15,010	(12,000)	62.1	<u>229</u>	<u>15,239</u>	<u>121.5</u>	<u>1,615</u>	16,854		<u>97.9</u>	<u>1,339</u>	18,193		113.6	<u>313</u>	<u>18,506</u>		<u>74.1</u>	<u>57</u>	<u>18,563</u>	(23,506)
Total (4 Kabupate	n)	30,672	Aller Takabar Yun - Souger Daverson Yun	139.1	2,399	33,071	234.5	5,037	38,108		194.4	3,252	41,360		168.6	935	42,295		287.7	1,992	44,287	(55,729
(Inluding Sadang)		44,232		-	-	46,631	-	-	51,668		-	_	54,920			-	55,855		-	-	57,847	(69,289)

Table 6.3 (3) Irrigation Area Developed During Recent Five Years (PELITA II)

/1: Figures in () in this Column is assumed based on the Preliminary Study Report (0.T.C.A. July 1974)

12: Figures in () in those Column shows paddy field area planted in wet season according to Item No. 33 on Table 1.1.

/3: Figures in () of developed area in 1974/75 & 1975/76 is estimated proportionately to the expenditure (Budget)

<u>/4</u>: Estimated based on the progress of works and total irrigation area in respective years.

<u>/5</u>: As microhhydro-power generation was commenced on January, 1975 using same intake facility, irrigation area is added from 1975, through other facilities are completed in 1978.

/6: In the Sadang System, the major works was completed by the end of World War II. Their rehabilitation and constructions works of small works are being implemented since 1971, however, under the PROSIDA Project. And it was scheduled to be completed than in South Area by the end of 1975. Although implementation of small works on the tertiary canal systems are still continued at present, irrigation area in Kab. Sidrap during past five years is taken as same as present area.

Name of System	Irrigable Area (ha)	Main Canal (km)	2ry Canal (km)	3ry Canal (km)	Total (km)	Canal Density (m/ha)	Drain Canal (kn)	Insp. Path (km)	Div. Str. (no.)
1. Kab, SIDRAP									
Bulucenrana $\angle 1$	6,261	9.4	36.3	64.4	110.1	17.6	3.0	2.2	9
Lancirang	417	1.0	1.2	-	2.2	5.3	 '	-	2
Bulutimorang $\angle 1$	5,337	2.1	14.8	36.6	53.5	10.0	-	2.1	1
Sadang <u>/</u> 1	13,560	17.1	85.9	342.0	445.0	32.8	160.0	x	16
(w/Kab. PINRANG)	(50,330)	(44,9)	(287.3)	(1,269.4)	(1,601.6)	(31.8)	(432.8)	(89.1)	(141)
Bilokka	931	8.1	· · ·	**	8.1	8.7		· <u>-</u>	4
Wattae	510	1.8	-	-	1.8	3.5	*	-	e
Total	27,016	39.5	138.2	443.0	620.7	23.0	163.0		
2. Kab. SOPPENG		· ·	•						
Lajaroko <u>/</u> 1	1,250	0,75	4.1	7.8	12.65	10.1	x	4.2	2
Salobunne $\overline{/1}$	2,100	5.1	10.2	18.6	33.9	16.1	6.0	5.1	10
Towelang	450	1.1	-	(2.8)	1.1	2.4	. x	x	1
Leworeng kiri	1,192	1.0	1.2	(9.8)	2.2	1.8	x	x	2.
Leworeng kanan	708	5.2	3.8	(3.4)	9.0	12.7	x	х	3
Tinco	500	. ~	2.3	(4.8)	2.3	4.6	x	х	2
Talmae	340	1.5	1.8	(4.5)	3.3	9.7	x	x	2.
Akampen	1,100	2.5	1.1	(7.3)	3.6	3.3	-	· -	4
Lalenge	1,000	2.25	1.0	(6.4)	3.25	3.3	-	-	1
Lagarigi	200 214	-	3.85 0.5	(2.5) (4.8)	3,85 1,9	19.3 8.9	- -		1
Cennae Paroto	270	0.25	-	(2.5)	0.25	0.9	×	x	î
Takku	460	0.2	2.0	(4.5)	2.2	4.8	x	x	3
Total	9,784	21.25	31.85	26.4 (79.7)	79.5 (132.8)	8.1 (13.6)	6.0		
3. Kab. WAJO						()			•
Belawa	1,500	1.5	3.5	(4.8)	5.0	3.3	x	x	2
Bulupatila	240	1.0	J.J.	(1.5)	1.0	4.2	X	x	2
Salodua	524	1.2	4.5	(1.5)	5.7	10.9	x	x	4
Bakke	220	0.5		(1.0) 	0.5	2.3	-		-
Total	2,484	4.2	8.0	0	12.2	4.9	0		
Iotai	2,404	4.2	0.0	(7.8)	(20.0)	(8.1)	0		
4. Kab. BONE									•
Maradda	430	2.9	· · · _	· · ·	29	6.7	**		2
Bengo	500	4.0	2.0	· · ·	6.0	12.0	1.2	•	3
Tadang Jompi	240	0.6	-	-	0.6	2.5	-	↔ .	1
Unyi	1,700	5.0	4.0	-	9.0	5.3	0.8	-	1
Sub-total	2,870	12.5	6.0	· ••	18.5	6.4	2.0		
Outside the Objective Area	15,693	52.8	44.1	104.0	200.9	5.4	16.2	6.0	
Total in Bone	18,563	65.3	50.1	104.0	219.4	11.8	18.2		
TOTAL	57,847	130.25	228.15	573.4	931.8	16.1	187.2		

Table 6.4 Inventory of Existing Irrigation Systems in the Objective Area

Note ; $\angle 1$ The technical irrigation system

Source: The Reports from and interview survey at three PU Seksi Pengairan; Sidrap-Enrekang, Soppeng-Wajo and Bone. (- means nil, x means not available)

Table 6.5 Present Conditions of Existing Irrigation Facilities in the Objective Area

No. 1 Name of (System Class	Type of Intake struc.	Condition of Intake	Canal & Structure	Type of <u>/</u> 2 project
Northern Area	(Bila River Ba	sin)	·		
1. Bulu Cenra	na Tech.	Fix-Weir, gate	Very G.	Good	Reh.
2. Lancirang	Semi.	Natural, gate	Bad	Bad	Sed.
3. Belawa	Semi.	Natural, gate	Bad	Bad	Exp.
4. Salodua	Semi.	Fix-Weir	Good	Bad	Sed.
North & West to	o L. Sidenrenc	(L. Sidenreng E	Basin)		
5. Bulutimora		Fix-Weir, gate	Very G.	Good	Exp.
6. Sadang Sout	- • • · · · · · · · · · · · · · · · · ·	Movable dam	Very G.	Very g.	PROSIDA
7. Bilokka	Semi.	Fix-Weir	Good	Bad	Sed.
8, Wattae	Semi	Fix-Weir	Good	Bad	Sed.
West & South to		Tempe & Walanae	Dimon Dagin		
9. Latenreng	(Semi)		RIVER Basir	<u>1)</u> .	
accenteny	(Dent)	- Fix-Weir	Good	Not Comp.	Non PU
0. Lajaroko	Tech	Fix-Weir, gate	Very G.	Fairly G.	
1. Salobunne	Tech.	Fix-Weir, gate	Very G.	Good	Reh.
2. Towereng	Semi	Fix-Weir	Good	Bad	Non PU
Leworang Ir		Fix-Weir, gate	Very G.	-	-
3. Leworang Ki		-	_	Bad	Exp.
4. Leworang Kr	. Semi	-		Fairly G.	-
5. Tinco	(Semi)/3	Natural ⁴	Bad	Bad	Non PU
6. Talumae	Semi	Fix-Weir "	Good	Bad	Non PU
7. Akampeng	Semi	Fix-Weir ^{/5}	Fairly G.	Bad	Exp.
8. Lalenge	Semi	Fix-Weir	Good	Fairly G.	
9. Lagarigi	Semi	Fix-Weir	Very G.	Fairly G.	
0. Cennae	Semi	Gabion, gate	Fairly G.	Construc.	
l. Paroto	Semi	Fix-Weir	Good	Bad	Sed.
2. Takku	Semi	Fix-Weir	Good	Bad	Sed.
outhern Inland	(Walanae Rive	r Basin)			
3. Maradda	Semi	Fix-Weir	Very G.	Fairly C	Euro
4. Bengo	Semi	Fix-Weir	Good	Fairly G. Fairly G.	
5. Tadang Jomp		Spring water	Good	Bad	Sed.
			GOOd	Bau	seu.
astern Area (Ce	nranae River	Basin)			
5. Bulu Patila	Semi	Natural /	Bad	Bad	Sed.
7. Unyi	Semi	Fix-Weir ^{_5}	Fairly G.	Fairly G.	
ote: <u>/</u> 1 : Ref	erred to Fig.	6.1			
		is as followings	- 		
Reh	. : Project u	nder Rehabilitat	ion Sub-Divi	sion, DPUP	Sil-Sel.
Exp	. : Project u	nder Exploitatio	n & Maintena	nce Sub-Div	vision, DPU
Sed	. : Simple (S	ederhana) Irriga under regional	tion Project	of DPUP Su	al-Sel.
		village irrigati			
· · · · ·	and the second sec	f boulders witho		cture.	
		on is repaired w	•		d by flood
	•	II - 137	J		

Name of System	Water Source	Catchment Area (CA) (km ²)	Irrigable Area (IA) (ha)
1. Kab. Sidrap			
Bilokka & Wattae	S. Bilokka	59	1,441
Bulucenrana	S. Boya	513	6,261
Lancirang	Dist. of Lancirang	9 (180/20)	417
Sub-total (Source in the objective area)	prote of Manchiang	581	8,119
Bulutimorang	S. Reppang	74	5,337
Total in Kab. Sidrap	5. Keppeng	655	13,456
Sadang	S. Sadang		13,560
	n	(5,875)	(56,330)/
2. Kab. Soppeng			
Salobunne	S. Salobunne	49	$2,100 \angle 1$
Latenreng	S. Lajaroko	(48)	2,1002- 800 <u>/</u> 1
Lajaroko	S. Lajaroko	(48)	1,250
Lujaroko	S. Lajaroko	54	2,050
	S. Batu-Batu	(103)	(4,150)
Towelang	S. Towelang	32	450
Leworang (Kr & Kn)	S. Leworang	118	1,900
Tinco & Talumae	S. Lewo	66	1,84041
Akampen	S. Belo	46	1,100
Lalenge & Lagarigi	S. Awo	96	1,200
Paroto	S. Paroto	7	270
Takku	S. Takku	1.6	460
Total exc. S. Langkemme		469.6	11,370
Cennae	S. Langkemme	102	214
Total in Kab. Soppeng		571.6	11,584
3. Kab. Wajo			
Salodua	S. Manumanu	8	524
Bulupatila	(Drain in field)	5 (50/10)	240
Sub-total exc. S. Bila		13	264
Belawa	S. Bila	1,360	1,500
Total (Source in the objective area)			2,264
Bakke		0.2	220
Total in Kab. Wajo		-	2,484
. Kab. Bone			
Maradda	S. Maradda	21	430
Bengo	S. Takka	21	500
Unyi	S. Unyi	136	2,500/ ¹
Sub-total (Source in the objective area)	5. 0.1.j.	178	3,430
2 technical systems	S. Palakka & Pattiro	308	10,940
5 semi-tech, systems	Small & medium rivers	159	4,124
Sub-total (Source outside the objective area)		467	15,064
Total (Surface runoff in Kab. Bone)		645	18,494
4 semi-tech, systems	Spring water	· · ·	1,569
Total in Kab. Bone		-	20,063

Table 6.6 Catchment Area of Surface Runoff Water Source of the Existing Irrigation System

Note: /1 Irrigable area in Kab. Soppeng and Bone including planned area. See Table 6.1.

12 Including irrigation area in Kab. Pinrang 36,770 ha and 6,000 ha under construction.

CA/IA	
4.1 8.2 2.2 7.2 1.4 4.9 -	
$\begin{array}{c} 2.3 \\ (6.0) \\ -2.6 \\ (2.5) \\ 7.1 \\ 6.2 \\ 3.6 \\ 4.2 \\ 8.0 \\ 2.6 \\ 0.3 \\ 4.2 \\ 47.7 \\ 4.9 \\ \end{array}$	
1.5 2.1 1.7 - 0.1	
4.9 4.2 5.4 5.2 2.8 3.9 3.1 3.5	
 4.3	·

				· · ·	۰.														Unit:	
₩ <u>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</u> ₩₩₩₩₩₩₩₩₩₩		1974,	/75		· · ·	1975				1976				1977		(1) N	1070	1978		(Dave)
escription-4	Irrigab	(Wet) le Area/5 Harv'd	<u>1974/5</u> Planted	<u>(Dry)</u> Harv'd	Irrigab	(Wet) <u>le Area/5</u> Harv'd	1975/6 Planted		Irrigabl	(Wet) le Area/5 Harv'd	<u>1976/7</u> Planted		Irrigab	(Wet) le Area/5 Harv'd	1977/8 Planted	(Dry) Harv'd	Irrigabl	(Wet) Le Area <u>/</u> 5 Harv'd	<u>1978/9</u> Planted	
n MPA			······································			×				ین میں میں میں میں ہیں۔ '					· · ·		· · ·			
Biloka	0 0	0	0	0	0 0 (847)	0 (799)	0 (0)	0 (0)	847 (847 (847)	(847) 808 (808)	0 (0)	0 (0)	890 890 (890)	(890) 874 (874)	240 (240)	240 (240)/	931 ((931) -	-	-
Wattae	0 0 -	0 -	0	0-	0 0 (666)	0 (631)	0 (0)	0 (0)	510 510 (666)	476 (622)	0 (0)	0 (0)	510 510 (666)	504 (658)	119 (155)	119 (155)/	510	(666) -	· -	-
Lancirang	0	0	0	0	417 417 (417)	394 (394)	0 (0)	0 (0)	417 417 (417)	417 (417)	0 (0)	0 (0)	417 417 (417)	417 (417)	110 (110)	101 (101)/	417	(417) -	-	-
Bulucenrana	4,500	4,280	3,506 * 77.9*	3,488	5,297 5,297 (5,297) * 100	5,297 (5,297) (100)	4,420 (4,420) 83.4	4,350 (4,350) (98.4)	5,297 5,297 (5,297) 100	4,861 (4,861) (91.8)	4,965 (4,965) 93.7	4,965 (4,965) (100)	5,297	(5,297) 4,950 (4,950) (93.4)		5,127 (5,127) (100)	6,261 5,700	(6,261) -	-	-
PA/IA (HA/PA)% Sub-total in MPA Excl. Sadang PA/IA (HA/PA)%	100 4,500 4,500 100	(93.1), 4,280 (95.1)	3,506	(99.3) 3,488 (99.5)	5,714 5,714	(100) 5,691 (99.6)	63.4 4,420 (77.4)	4,350	7,071 7,071	6,562 (92.8)	4,965 70.2	4,965 (100)	7,114 7,114	6,745	5,596 78.7	5,587 (99.8)	8,119	(8,275)	-	8. V
adang																				
Whole (PU Data) <u>/</u> 1 PA/IA (HA/PA)%	50,330 -	-	-	-		(24,491) (99.65)	(30,900) 61.4	(30,811) (99.71)		(25,766) (96.55)	(32,466) 64.5	(32,216) (99.23)	50,330 (38,183) 75.9	(35,800) (93.76)	(42,226) 839	(39,536) (93.63)		(50,330)	.	•
	13,560 (10,583) 10,583 78.0		(10,630) 10,630	- 10,366 (97,52)	13,560 (11,001) 11,001 * 81.1	- 10,962 (99.65)	(11,428) 11,428 84.3		13,560 (12,350) 12,350 91.1	- 11,924 (96.55)			13,560 (11,342) 11,342 83.6	- 10,634 (93.76)		- 11,105 (93.63)	-	(13,560) -		
PA/IA (HA/PA)% in MPA (59.37%)	8,050 6,283	6,072			8,050	6,508		6,765	8,050		7,399	7,401	8,050	6,313	7,041	6,593	8,050	(8,050)	- .	-
ulutimorang	4,160 4,160 -	3,732	3,149	3,146	4,416 4,416 (4,416)	4,381 (4,381)	3,642 (3,642)	3,642 (3,642)	4,522 4,522 (4,522)	(3,851)	3,769 (3,769) 83.3		4,941 4,941 (4,941) 100		4,600 (4,600) 93.1	4,600 (4,600) (100)		(5,337)	- 22	-
PA/IA (HA/PA)% Total in MPA	100* 16,710 14,943	14,084	* 75.7* 12,966 77.6		18,180 16,661	(99.2) 16,580 (99.5)	82.5 14,846 81.7	(100) 14,757 (99.4)	19,643 18,925	(85.2) 17,492 (92.4)	•	16,129	20,105 18,788 93.4	17,247	17,237 85.7	16,780 (97.3)	-	(26,662)	- 	
PA/IA (HA/PA)% otal in Kab. idrap PA/IA (HA/PA)%	89.4 22,220 19,243 86.6	(94.3) 18,240 (94.8)	17,285	· · · ·	23,690 21,131	•	19,490 82.3	19,387	25,153	22,337 (93.3)	21,198		25,615 23,397		22,057	21,292 (96.5)	27,016	(27,172) -	-	-
IMAS/INMAS Pd/Pr (HA/PA)%	3,705	()4.0) 3,496 (94.4)	8,572 231	(50.4) 8,569 (100)	6,832	6,824 (99,9)	6,827 99.9		17,249	16,149 (93.6)	15,471		22,384	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	18,139	18,139 (100)	-	-		-
hole Paddy <u>/</u> 3 Pd/Pr (HA/PA)%	25,760	24,421 (94.8)		17,469 (93.2)	35,454	34,366 (96.9)	23,241 65.6	23,136 (99.5)	36,982	32,511 (87.9)	21,403	21,369 (99.8)	39,949 -	32,864 (82.3)	. 	-	~	- "	- · ·	-
ainfed Pd/Pr (HA/PA)%	6,517	6,181 (94.8)	1,463 22.4	469 (32.1)	14,323	13,332 (93.1)	3,751 26.2	3,749 (99.9)	13,039	10,174 (78.0)	205 1.6	174 (84.8)	16,552 -	11,296 (68.2)			-	. .	-	4 4
											-	÷			II - 1.	39	·			

Table 6.7 (2) Planted Area and Harvested Area on Irrigated Paddy Field in Kab. Sidrap during Recent Five Years

- Note : /1 Figures in () are planted area and harvested area in each, system according to "Luas Sawah Areal Baku dan Luas Sawah Areal Tanam Propinsi Sul-Sel", Bid. Pengairan DPUP Sul-Sel, Oct. 1978.
 - /2 Figures in () are planted area in Kab. Sidrap in Sadang System according to "Laporan Tahunan Tahun 1978, Sidrap-Enrekang", PU Seksi Pengairan Sidrap-Enrekang, May 1978.
 - /3 Planted area and harvested area of whole paddy (in Kab. Sidrap) is according to Table 3.4.2 in Progress Report on the Master Plan Study CESSWRDP, Feb. 1979
 - 1/4 Name of system with underline shown technical irrigation system, system without underline is semi technical system, and rainfed includes village irrigation system.
 - /5 Irrigable area in each year is based on Table 6.3 and it shown in () is according to "List of Inventory of Irrigation Area in 1978" DPUP Sul-Sel. October, 1979.
 - /6 (*) Planted area and harvested area in 1974/75 and harvested area in Sadang System in Sidrap are estimated as follows:
 - (1) HA/PA of whole Sadang is applied for HA/PA in Sidrap during 3 years from 1975 to 1977.
 - (2) HA/PA of Bulucenrana, Bulutimorang and Sadang is an average of respective season's paddy during 3 years from 1975 to 1977.
 - (3) FA/IA of Bulucenrana and Bulutimorang of 1974 wet season paddy is assumed as 100%. (an average of 3 years)
 - (4) PA/IA of Bulucenrana and Bulutimorang of 1974/75 dry season paddy is assumed as 77.9% and 75.7% respectively based on the increase rate during 3 years from 1975 to 1927 estimated by least squares method.
 - <u>↓</u>7 PA: Planted Area
 - HA: Harvested Area
 - IA: Irrigable Area
 - Pd: Planted Area of Dry Season Paddy
 - Pr: Planted Area of Wet Season Paddy

Table 6.8 (1)Planted Area and Harvested Area on Irrigated PaddyField in Kab. Soppeng during Recent Five Years

		1974	775			1975	/76			1976	/77			1977/	78	·		1978		ن استاد و منبع مید میشود. و می موسی - استاد می مرکز می می می دور می می می
/3	1974			5 (Dry)	1975	(Wet)	1975/6	(Dry)	1976	(Wet)	1976/7	(Dry)		(Wet)	1977/8	(Dry)	1978		1978/9	(Dry)
escription ^{23}	Irrigabl	e Area <u>/</u> 4			lrrigab	le Area <u>/</u> 4			Irrigab	le Area/4	Dlantod	Uomrld	Irrigabl Plantod	le Area <u>/4</u> Harv'd	Plantod	Harv [†] d	Irrigabl Planted	e Area/4 Hary'd		Harvid
	Planted	Harv'd	Plante	d Harv'd	Planted	Harv'd	Planted	Harva	Planteo	Harva	rianceo	harv u	Flanceu	narv u	rtanteu	marv u	1 Idificed	Inter of	1 10110-00	11011 7
alobunne	1,280		:		1,700				2,100				2,100				2,100 (3,500)		
		-	-	-	1,700	1,323	460 (460)	460 (460)	1,924	1,332 (1,332)	567 (567)	567 (567)	2,100 (2,279)	1,002	460 (460)	460 (460)	2,100	-	-	-
		-	· -			(2,180)	(400)	(400)		(1,552)	(307)	(507)	1,250		(400)	(400)	1,250 (2 000)		
ajaroko	1,250	_	·	. –	1,250 1,250	1,025	780	780	1,250 1,250	1,050	925	92 5	1,175	680	785	785	1,250	-	-	-
	-		-			(1,025)	(780)	(780)		(1,050)	(925)	(925)	(1,175)	(680)	(785)	(785)	-	-		-
atenreng	0				0				0				0 (3		0		8) 0	00)	·	
	-	-	• **	-	0 (300)	0 (450)	0 (0)	0 (0)	0 (300)	0 (250)	· 0 · (0)	0 (0)	0 (300)	0 (275)	0 (0)	(0)	~	· •		609 1406
	-		-	-				(0)	300	(200)	(*)	(~)		(300)			450 (450)		
oweleng	250	-	-	-	250	(250) 126	x	x	300	232	x	x	300	275	x	x∠1	-	-	-	-
	-		-	-	(250)	(126)	(0)	(0)	(300)	(232)	(0)	(0)	(300)	(275)	(0)	(0)	- .	**	-	-
eworang Kr.	1,192				1,192				1,192	1 100	1 175	1 175	1,192	1 100	100	100	1,192	_	_	
	-	-	-	-	1,192 (1,192)	1,192 (1,192)	1,160	1,160 (1,160)	1,192 (1,192)	1,192 (1,192)	1,175 (1,175)	1,175 (1,175)	1,192 (1,192)	1,192 (1,192)	100 (100)	100 (100)/-	L _	-	-	, -
······································	450				708	(1,1)4/	(1,100)	(1,100)	708	(_,_,_,	(-,)	(-,,	708				708			
eworang Kn.	650 -	-	-	• • • •	708	708	670	670	708	708	535	535	688	688	80	80	-	-	-	-
	-	- .		-	(708)	(708)	(670)	(670)	(708)	(708)	(535)	(535)	(688)	(688)	(80)	(80)∠́		· ••	-	. –
inco	500				500				500	(00				(500)			500 ((500)	_	_
	-	-			500 (500)	. 452 (452)	× (0)	x (0)	500 (500)	400 (400)	x (0)	x (0)	500 (500)	473 (473)	× (0)	× (0)/1	-	-	-	-
alumaa	250				250	(132)	(•)			(250)	(-)			(375)		· · ···	340	(800)		
alumae	-	-	-	-	250	123	х	x	250	175	×	х	340	272	х	X (-> /1	-		· _	-
	-	-	-		(250)	(123)	(0)	(0)	(250)	(175)	(0)	(0)	(375)	(300)	(0)	(0) <u>∕</u> 1		1 27	-	~
kampeng	1,100			· ·	1,100	1 100	1 075	1 075	1,100	1 100	1 090	1 090	1,100 1,100	1,085	360	360	1,100	_	_	-
	ac.	-	-	-	1,100 (1,100)	1,100 (1,100)	1,075 (1,075)	1,075 (1,075)	1,100 (1,100)	1,100 (1,100)	1,080 (1,080)	1,080 (1,080)	(1,100)		(360)	(360) <u>/</u>	1 -	-	-	-
alenge	1,000				1,000				1,000				1,000		1		1,000	(1,250)		
arenge	-	-	Ð	3 87	1,000	1,000	1,000	1,000	1,000	980	976	976	1,000	960	485	485	1 -	•	-	
	-	-		-	(1,250)	(1,250)	(1,250)	(1,250)		(1,225)	(1,220)	(1,220)		(1,200)	(485)	(485)∠		-		-
agaligi	200				200	176			200	156	v	v	200 200	(275) 145	х	х	200	(300)	-	-
	-			-	200 (275)	145 (200)	x (0)	x (0)	200 (275)	(314)	x (0)	x (0)	(275)		(0)		**	-	-	-
ennae	0				50			• •	50				50	(50)			214	(214)		
CHING	-	-	-	-	50	50	x	x	50	50	X	X	50	50	X	\mathbf{x}		-	-	-
	49	-	-	-	(50)	(50)	(0)	(0)	(50)	(50)	(0)	(0)	(50)	(50)	(0)	(0) <u>/</u> 1		-	-	-
aroto	-				200	162	v	W	200 200	200 200	· v	v	270 270	202	x	x	270	(270)	-	· _
	-	-	-	-	200 (270)	163 (220)	х (0)	x (0)	(200)	(200)	(0)	(0)	(270)	(202)	(0)	(0) <u>/</u> 1	-	-		-
akku	. 0 .			· · · ·	460		•••		460	·	· · · ·		460	·			460	(460		
	•	7		-	460	435	х	X	460	4 6 0	X	x	460	435	x	\mathbf{x}	· •	-		-
•.		~ .	-	-	(460)	(435)	(0)	(0)	(460)	(460)	(0)	(0)	(460)	(435)	(0)	(0) <u>/</u> 1	-		-	-

Unit: ha

Table 6.8 (2	.)
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Planted Area and Harvested Area on Irrigated Paddy Field in Kab. Soppeng during Recent Five Years

n ha faran manangan dalam yang mangka kanan manan kanan sang manangan sang panahika kata kata kata kata kata k	<u> </u>	1974,	775			1975	76			1976	5/77			1977				1978		
/3	1974		1974/5	(Dry)	1975	(Wet)	1975/6	(Dry)	the second s	(Wet)	1976/7	(Dry)		(Wet)	1977/8	(Dry)	1978	a descent and the state of the second se	1978/9	(Dry)
Description ¹	Irrigabl	<u>le Area/4</u>	Planted	Harv'd		le Area/4 Harv'd		Harv 'd	And the Owner of the	le Area/4 Harv'd	Planted	Harv'd		e Area/4 Harv'd		Harv'd		<u>e Area/4</u> Harv'd	Planted	Harv'
┍╕╒┲┍╺╒╍╼╤┉╡╲╍═╘╘╍╲┠╛╶╍╕╘╘╾┚╌╘╛╘╵╌╘┚╏ ╡╒═╿╌╸╒╌┖╓╿ ╪╔╧┟═┱┸┱╛══╡╞╤┉╸	Planted	harv u	Flanceo	nary o	Tlauteu	<u>narv u</u>		THE V G	1 1411-00		1									
Total	7,672				8,860				9,310				9,470	· ·	·		9,784 (14,544)		
					8,860	7,902	5,145	5,145	9,134	8,035	5,258	5,258	9,375	7,459	2,270	2,270	~	→ ,	-	-
PA or HA/IA (%)					100	89.2	58.1	58.1	98.1	86.3	56.5	56.5	99.0	78.8	24.0	24.0 100		-	-	-
HA/PA (Pd/Pr)(%) (PU Data)/1					(10,535)	89.2 (9,211)	58.1 (5,395)	100 (5,395)	(9,759)	88.0 (8,588)	(57.6) (5,502)	100 (5,502)	(10,214)	79.6 (8,142)	(24.2) (2,270)	(2,270)	L -	-	-	
BIMAS/INMAS HA/PA (Pd/Pr)(%)	12,147	8,729 <u>/</u> 6 71.9	5,808 (47.8)	5,808 100	7,612	7,594 99.8	5,724 (75.2)	4,525 79.1	9,586	9,057 94.5	7,156 (74.7)	7,156 100	9,858	8,907 90.4	6,728 (68 .2)	6,634 98.6	-	-	-	-
Assumed <u>/</u> 5 PA/IA (HA/PA)(%)	100	(71.9)	47.8	(100)	100	(99.8)	75.2	(79.1)	98.1	(94.5)	74.7	(100)	99.0	(90.4)	68.2	(98.6)				
Estimated Area <u>/</u> 5	7,672	5,516	3,667	3,667	8,860	8,842	6,663	5,270	9,134	8,632	6,955	6,955	9,375	8,475	6,459	6,369	-	-	-	-
Whole Paddy <u>/</u> 2 MA/PA (Pd/Pr)(%)	19,330	14,467 74.8	14,860* (76.9)*	14,434 97.1*	21,649	19,765 91.3	(15,195)* (70.2)*		20,861	18,724 89.8	(10,461)) (50.1)	-	21,038	16,526 78.6	-		-	-	••	-
Rainfed HA/PA (Pd/Pr)(%)	11,658 -	8,951 96.8	11,198* (96.0)*		12,789	10,923 85.4	(8,532)* (66,7)*		11,727 -	10,092 86.1	(3,506) (29.9)		11,663 -	8,051 69.2		-	-	-	-	-

Note: /1 Figures in () are planted area and harvested area in each system according to "Luas Sawah Areal Baku dan Luas Sawah Area Tanam Propinsi Sul-Sel". Bid. Pengairan DPUP Sul-Sel, Oct. 1978. (Referred as "PU Data")

- /2 Planted area and harvested area of whole paddy (in Kab. Soppeng) is according to Table 3.4.2 in Progress Report on the Master Plan Study CESSWRDP, Feb. 1979. Planted area of dry season paddy shown with * is not reliable due to in correct statistical procedure.
- <u>/</u>3 Name of system with underline showns technical irrigation system, system without underline is semi-technical system, and rainfed includes village irrigation system.
- /4 Irrigable area in each year is based on Table 6.3 and it shown in () is according to "List of Inventory of Irrigation Area in 1978" DPUP Sul-Sel, Oct. 1978.
- <u>15</u> Total planted area and harvested area in irrigated land in Kab. Soppeng based on the PU Data especially in dry season, are not reliable as compared with them of whole paddy as well as of BIMAS/INMAS. Accordingly, total area in irrigated land is estimated as follows:
 - (1) Planted area of wet season paddy on the PU Data is applied during 3 years from 1975 to 1977.
 - (2) PA/IA of wet season paddy in 1974 is assumed as 100%.
 - (3) Planted area of dry season paddy is estimated assuming that PA/IA is same as Pd/Pr of BIMAS/INMAS.
 - (4) HA/PA of BIMAS/INMAS is applied as HA/PA of irrigated land.
 - (5) Revised area is not allocated for each system and shown with.*
- <u>/6</u> Due to insect damage, harvest area in BIMAS/INMAS, namely irrigated land is less than it of rainfed.
- [7 PA; Planted Area HA: Harvest Area
 - IA: Irrigable Area Pd: Planted Area of Dry Season Paddy
 - Pr: Planted Area of Wet Season Paddy

<u>Unit: ha</u>

		1974	/75			1975				1976			······································	1977		<u> </u>	1070	1978		(0)
escription ²		(Wet)	1974/5	(Dry)		(Wet)	1975/6	(Dry)		(Wet)	1976/7	(Dry)	<u>1977</u>	(Wet)	1977/8			(Wet) le Area/4	1978/9	(Dry)
Jeser Iption		<u>le Area/4</u> Harv'd	Planted	Harv'd	Irrigab Planted	<u>le Area/4</u> Harv'd	Planted	<u>Harv'd</u>	Irrigab. Planted	<u>le Area/4</u> Harv'd	Planted	Harv'd		le Area/4 Harv'd	Planted			Harv'd	Planted	Harv
Belawa	1,500	**	-	-	1,500 1,500 (1,500)	1,075 (1,075)	1,350 (1,350)		1,500 1,500 (1,500)	1,348 (634)	109 (109)	109 (109)	1,500 1,500 (1,500)	1,330 (1,330)	502 (502)	502 (502)∕1	1,500	- -	-	-
Salodua	0 ~		- -		524 524 (524)	495 (495)	12 (12)	12 (12)	524 524 (524)	324 (324)	13 (13)	9 (9)	524 524 (524)	405 (405)	19 (19)	19 (19)∕1			-	
Bulupatila	0 - -	- -	** . **		240 240 (240)	240 (240)	150 (150)	0 (0)	240 240 (240)	200 (200)	0 (0)	0 (0)	240 240 (240)	200 (200)	0 (0)	0 (0)∕1	240	-		
Sub-total in MPA	1,500 1,500* -	560* -	585*	553* -	2,264 2,264 (2,264)	1,810 (1,810)	1,512 (1,512)	1,312 (1,312)	2,264 2,264 (2,264)	1,872 (1,158)	122 (122)	118 (118)	2,264 2,264 (2,264)	1,935 (1,935)	521 (521)	521 (521)/ ¹		-	-	-
Bakke	0 0 -	0 -	0	0	0 0 (67)	0 (67)	0 (0)	0 (0)	0 0 (75)	0 (75)	0 (0)	0 (0)	0 0 (100)	0 (100)	0 (0)	0 (0) <u>/</u> 1		(288) - -	-	-
Fotal <u>/</u> 5 PA/IA (HA/PA)(%) (PU Data) <u>/</u> 1	1,500 1,500* 100*	560* (37.3)* -	585* 39.0*	553* (94.5)* -	2,264 2,264 100 (2,331)	1,810 (97.9) (1,877)	1,512 66.8 (1,512)	1,312 86.8 (1,312)	2,264 2,264 100 (2,339)	1,872 (82.7) (1,233)	122 5.4 (122)	118 (96.7) (118)	2,264 2,264 100 (2,364)	1,935 (85.5) (2,035)	521 23.0 (521)	521 (100) (521)	2,484 - - -	(2,552) - - -	- - -	-
BIMAS/INMAS HA/PA (Pd/Pr)(%)	9,803	3,190 325	0 (0)	0 -	8,147 -	5,669 69.6	0 (0)	0 -	12,392	2,382 192	0 (0)	0 -	11,601 -		0 (0)			-an Ma	-	
Nhole Paddy <u>/</u> 2 HA/PA (Pd/Pr)(%)	63,538	40,447 63.7	1,418 (2.23)	1,229 86.7	63,941 -	59,068 92.4	2,442 (3.82)	1,436 58.8	66,647	36,989 (55.5)	222 (0.33)	188 84.7	64,574 -	31,592 48.7	- 		रम	-	₩.	<u>→</u> .
Rainfed HA/PA (Pd/Pr)(%)	62,038	39,887 64.3	833 (1.3)	676 81.2	61,677	57,258 92.8	930 (1.5)	124 13.3	64,383 -	35,117 54.5	100 (0.2)	70 70.0	62,310	29,657 47.6		*	-	-		-

Planted Area and Harvested Area on Irrigated Paddy Table 6.9 Field in Kab, Wajo during Recent Five Years

/2 Planted area and harvested area of whole paddy (in Kab. Wajo) is according to Table 3.4.2 in Progress Report on the Master Plan Study CESSWRDP, Feb. 1979.

13 All irrigation systems in Kab, Wajo are semi-technical system, and village irrigation systems are included in rainfed.

- Irrigable area in each year is based on Table 6.3 and it shown in () is according to "List of Inventory of Irrigation Area in 1978" DPUP Sul-Sel. Oct. 1978. /4
- 15 Planted area and harvested area in 1974 wet season and 1974/75 dry season shown with * are estimated as follows:
 - (1) PA/IA of 1974 wet season paddy is assumed as 100% (an average of 3 years).
 - (2) According to gricultural statistics, wet season paddy in 1974 is damaged due to insect and flood and wet season paddy in 1975 is mainly flood. It is considered that HA/PA of wet season paddy in 1974 is similar to it in 1975. HA/PA of 1975 wet season paddy in irrigated land is 79.9% while it of BIMAS/INMAS is 69.6%, as HA/PA of 1974 wet season paddy of BIMAS/INMAS is 32.5%, HA/PA of 1974 wet season paddy in irrigated field = $32.5 \times 79.9/69.6 = 37.3\%$.
 - (3) PA/IA 1975/6 dry season paddy in irrigated field is 66.8% while Pd/Pr of whole paddy is 3.82%, as Pd/Pr of 1974/5 dry season paddy of whole paddy is 2.23%, PA/IA of 1974/5 dry season paddy in irrigated field = 2.23 x 66.8/3.82 = 39.0%.
 - (4) HA/PA of dry season paddy in irrigated field is almost constant. An average HA/PA of dry season paddy in irrigated field 94,5% is applied for it in 1974/75 dry season paddy.

16 PA: Planted Area

HA: Harvested Area

IA: Irrigable Area

- Pd: Planted Area in Dry Season

Pr: Planted Area in Wet Season

Unit: ha

Table 6.10 (1)Planted Area and Harvested Area on Irrigated PaddyField in Kab. Bone during Recent Five Years

						1	1								1.1					<u>it: ha</u>
ĊĸĸġĸţĸŦġĊĸŔĸŎŢĸġŢĸġĬĸĸŎĸĸĸĸŊŎĸŢŎġĊŎĸġĬĿġĬĸġĬĸĸţĸġĸĸĸĸŢŎĸĿŎŎŎĬĸŎĸŎ	M. 34a (1994)	1974,				1975	/76			1976			· · · · · · · · · · · · · · · · · · ·	1977,				1978		
Description $^{/3}$	1974		1974/5	(Dry)	and the second	(Wet)	1975/6	(Dry)		(Wet)	1976/7	(Dry)		(Wet)	1977/8			(Wet)	1978/9	(Dry)
peset therea		<u>e Area/4</u>				le Area/4				<u>le Area/4</u>				le Area/4				<u>e Area/4</u>	n 1 (1	
	Planted	Harv'd	Planted	Harv'd	Planted	Harv'd	Planted	Harv a	Planted	Harv'd	Planted	Harvid	Planted	Harv o	Planted	Harv'd	Planceo	Harvid	Planted	Harv d
In MPA	430	-	-	-	430				430	· ·	н. Н		430				430	(900)		
Maradda	-	.		-	344	320	108	79	430	388	72	68	409	370	129	128	-	-	cing .	-
					(720)	(670)	(225)	(165)	(900)	(812)	(150)	(142)	(855)	(775)	(270)	(269) <u>/</u> 1				
Bengo	500	•			500	i.			500				500		1. A.	. :	500	(2,500)		
0	-	-	-	-	400	295	100	93	500	490	200	199	500	490	100	100	-	-	-	-
					(2,000)	(1,473)	(500)	(463)	(2,500)	(2,448)	(1,000)	(995)	(2,500)	(2,448)	(500)	(500)		•	-	
Tadang jompi	. 0				240				240				240				240	(400)		
	2.	-		-	240	219	195	193	240	240	195	195	240	240	229	229	-	-	-	
					(400)	(365)	(325)	(322)	(400)	(400)	(325)	(325)	(400)	(400)	(381)	(381)				
Sub-total	930	· · ·			1,170				1,170	· .			1,170				1,170	(3,800)		
in hilly area	875_6			-	984	834	403	365	1,170	1,118	467	462	1,149	1,100	458	457	-	-	-	-
PA/IA (HA/PA)(%)	94.1	(92.0)			84.1	(84.8)	34.4	(90.6)	100	(95.6)	39.9	(98.9)	9822	(95.7)	39.1	(100)		·	·	
(PU Data) <u>/</u> 1					(3,120)	(2,508)	(1,050)	(950)		(3,660)	(1,475)	(1,462)		(3,623)	(1,150)	(1,150) <u>/</u> 1				
Unji	1,700				1,700		·		1,700				1,700				1,700	(2,500)		
	1,587	1,440	-	-	1,530	1,221	850	847	1,700	1,683	1,190	1,190	1,530	1,428	510	510	-	-	-	
						(1,796)	(1,250)	(1,245)	-	(2,475)	(1,750)	(1,750)		(2,100)	(750)	(750)				
Total in MPA	2,630				2,870				2,870				2,870				2,870	(6,300)		1
DALTA (MALDA) (MA		2,245/7	-	-	2,514	2,055	1,253	1,212	2,870	2,801	1,657	1,652	2,679	2,528	968 33.7	967 (100)	-	•	-	-
PA/IA (HA/PA)(%) (PU Data) <u>/</u> 1	93.6	(91.2)			87.6 (5,370)	(81.7) (4,304)	43.7 (2,300)	(96.7) (2,195)	100	(97.6) (6,135)	57.7 (3,225)	(99.7) (3,212)	93.3 (6,005)	(94.4) (5,723)		(1,900)				
(IO Data) <u>/</u> I					(3,310)	(+,00+)	(2,000)	(231)))	(0,500)	(0,133)	(33223)	(3,212)	(0,000)	(3,723)	(*;)))))	(1,700)				
Outside MPA									•											
<u>Palakka</u>	5,540				5,540	· · · ·			5,540	_*			5,540				5,540	(5,540)		
					5,540	5,040	2,400	2,394	5,540	5,375	2,400		5,540	5,371	2,400	2,400	-	-		-
	-	-	-	-		(5,040)	(2,400)	(2,394)		(5,375)	(2,400)	(2,338)		(5,371)	(2,400)	(2,400)/1				
<u>Pattiro</u>	5,400				5,400				5,400	5 414	1 600	11 604	5,400	r 100	0.160	0 100	5,400	(5,400)		
					5,400	4,550	2,160	2,160	5,400	5,214	1,620	1,604	5,400	5,190 (5,190)	2,160	2,158 (2,158) <u>/</u> 1		-	~	-
	-	-	4			(4,550)	(2,160)	(2,100)	(5,400)	(5,214)	(1,620)	(1,004)		(3,190)	(2,100)	(2,130)/1				
Lanco	0				200		<u>,</u>	<u>^</u>	646		100	100	646	(10	100	100	646	(646)		
					200	183	0	0	646 (646)	611 (611)	188 (188)	188 (188)	646 (646)	610 (610)	188 (188)	188 (188) <u>/</u> 1	-	~	-	-
		-	- ,		(200)	(183)	(0)	(0)		(011)	(100)	(100)		(010)	(100)	(100)[-			1 - A	
Mico	0				0	0	·.	· · · ·	0			0	50	50	20	20	50	(83)		
					· 0 (40)	0 (36)	0	0	0 (50)	.0 (50)	0(0)	0 (0)	50 (83)	50 (83)	20 (33)	20 (33)	-	-	-	~
	69	•	-		(40)	(50)	(0)	(0)		(50)				(03)	(55)	(55)		1		
Jaling	1,300		•		1,300	1 157		200	1,300		0.05	205	1,300	1 006	205	205	1,300	(2,000)		
	- ·	-	- ·		1,170 (1,800)	1,156	390 (600)	388 (597)	1,170	1,147 (1,764)	325 (500)	325 (500)	1,105	1,086 (1,670)	325 (500)	325 (500) <u>/</u> 1		44	-	-
		-	- .	-		(1)///	(000)	(397)		(1,704)	(500)	(300)			(300)	(300)7-		(00()		
Paccing	0				0	0	0	0	0	0	0	0		(229)	20	29	286	(286)		
	· · · <u>-</u> ·	.	-	-	0 (100)	0 (93)	0 0	0	0 (143)	0 (139)	0	0 0	229 (229)	229 (229)	29 (29)	(29) <u>/</u> 1		~	-	
	-					(23)	V	v			U.	v		(~~~)	()	14114		(000)		
Panyili	0				0	0	0	0	283		. 00	0.0	298 238	938	00	89	298	(298)		
	· -		-	~	0 (283)	0 (253)	0 (89)	0 (89)	283 (283)	283 (283)	89 (89)	89 (89)	(238)	238 (238)	89 (89)	(89) <u>/</u> 1	-		-	~
	-		-	-	(404)	(400)	(02)	(02)	(200)	くらいりり	(07)		(200)	(400)	(07)	\~/ <i>)</i>			1	

Unit: ba

Table 6.10 (2) Planted Area and Harvested Area on Irrigated Paddy Field in Kab. Bone during Recent Five Years

								· .											Unit	<u>t: ha</u>
		1974,	/75			1975	/76			1976	/77			1977	/78			1978		
Description/3	1974	(Wet)	1974/5	(Dry)	1975		1975/6	(Dry)		(Wet)	1976/7	(Dry)		(Wet)	1977/8	(Dry)	1978		1978/9	(Dry)
pescriptionT2		le Area/4				le Area/4				le Area/4				<u>le Area/4</u>				<u>e Area/4</u>		1 1
· · · · · · · · · · · · · · · · · · ·	Planted	Hary'd	Planted	Harv'd	Planted	Harv'd	Planted	Harv'd	Planted	Harv'd	Planted	<u>Harv'd</u>	Planted	Harv'd	Planted	Harv'd	Planted	Harv'd	Planted	Harv'd
Tonotohuona	0				365				365				365				365 (365)		
Tanatebuang	-	-	-	_	365	355	164	164	365	365	183	183	365	365	183	183	-	-	-	_
	-	-	-	· _	(365)	(355)	(164)	(164)	(365)	(365)	(365)	(183)	(365)	(365)	(183)	(183)	L			
Wollangi	229			-	229				366				385		· .		385 (385)		
worrangr	-	- -		· •	229	203	154	138	366	353	308	300	385	385	270	270	-	-		40
	-	-	-	-	(229)	(203)	(154)	(138)	(366)	(353)	(308)	(300)	(385)	(385)	(270)	(270)	L ·			
	0				. 0				399				399				399	(300)		
Melle				_	0	0	0	0	399	399	239	239	399	399	239	239		,	-	
	. · ·	- .	-	-	(399)	(372)	(239)	(239)	(399)	(399)	(239)	(239)	(399)	(399)	(239)	(239)/□	L			
De11	0		•		630				704	, ,			704	•			704 ((704)		
Pallengoreng	<u> </u>	-	_	÷	630	599	0	0	704	697	0		704	. 697	0	0	-		-	-
				-	(630)		: (0)	(0)	(704)	(697)	· (0)	(0)	(704)	(697)	(0)	(0)/1				
Development	0				180		.,		180	•				(210)		•	180	(300)		
Pengisoreng		-	-	-	154	136	39	37	180	163	51	51	154	129	51	51	-	-	-	_
	-	-	-	-	(180)	(159)	(45)	(43)	(210)	(190)	(60)	(60)	(180)	(150)	(60)	(60)	L			
T	14.0				140				140					(560)			140 ((800)		•
Lerang	140	-	-	-	140	130	30	27	140	108	.30	30	140	108	20	20		-	-	***
. '	-		-		(560)		(120)	(108)	(480)	(430)	(120)	(120)	(480)	(430)	(80)	(80)	L			
m. (– 1	10 (00		•			``´	· · ·				. ,		15,636		• -		15,693	(17 206)		•
Total Outside MPA	12,609 12,445	11,748			13,984 13,828	12,352	5,337	5,308	15,323 15,173	14,715	5,433	5,367		14,857	5,974	5,972		-	-	-
PA/IA (HA/PA)(%)	98.7	(94.4)	_	_	98.9	(89.3)	38.2	(99.5)	99.0	(97.0)	35.5	(98.8)	98.1	(96.9)	38.2	(100)				
(PU Data)/1		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(14, 143)	(5,971)	•	(16,386)		(5,707)		(16,349)			(6,229)				
															: :			/		
Total	15,239				16,854		6 500	< 5 88	18,193		7 000	7 010	18,506	17 005		< 010	18,563	(23,506)		÷
DALTA (MA DA) (9)	14,907		-	-	16,342	14,407	6,590	6,520	18,043 99.2	17,516 (97.1)	7,090 39.0	7,019 (99.0)	18,014 97.3	17,385 (96.5)	6,942 37.5	6,939 (100)	-	-	-	
PA/IA (HA/PA)(%) (PU Data)/1	97.8	(93.9)			97.0	(88.2) (18,447)	39.1	(98.9)	(22,686)				(22,354)			(8,129)	-	-	_	-
(ro Data) <u>/</u> 1				•	(21,000)	(10,147)	(0,272)	(0,127)	(22,000)	(~~,000)	(0,))22)	(0,000)	(22,5004)	(2+,0-10)	(0)-04/	(0,1-27)				
Estimated Area		4					15				1	: /=	t.							
Total	14,907				5 16,342		4,775 ^{L,9}		18,043				18,014		3,650	3,650	-	-	. –	-
PA/IA (HA/PA)(%)	97.8	(93.9)	37.5	(95.7)	97.0	(88.2)	28.3	(93.5)	99.2	(97.1)	19.7	(97.8)	97.3	(96.5)	19.7	(100)				
in MPA		7	15	19		· ·	15	15	1		· . / F	. /r			. 15	2 /8			. •	
Hilly Area (6.1%) 875 ^{∠6}	805 ⁷	349 ⁷⁵	334L ⁵	984	834	291 ^{/5}		1,170	1,118	219	214 <u>~</u> ~	1,149	1,100	215 ⁷⁸		-	-	. 🗖	-
Coastal Area	1,587	1,440	640 ⁷⁵	612 ²⁵	⁵ 1,530	1,221	535 ⁷ 2	502 ^{/5}	1,700	1,683	401	; ₃₉₃ /5	, 1,530	1,428	172^{172}	³ 172 ²⁸	-		=>	-
(11.2%)		-,											•	•						
Sub-total (17.3%)		2 245/7	₉₈₉ /5	946 ^{L5}	5 2,514	2,055	826 ⁷⁵	775 ⁷⁵	2,870	2,801	620	607/5	5 2:679	2,528	387	387	_	-		-
		1.51								· ·						³ 3,263 ^{/8}				
Outside MPA(82.7%)12,4454°	11,7484.	4,725	4,520	13,828	12,352	3,949	3,706	15,173	14,715	2,966~	2,900-	, 15,335	14,857	3,263-	3,203~		• .	-	P 4
BIMAS/INMAS	4,565	774	3,173	3,060	11,821		4,808	2,244	12,240	9,388	4,575		12,255	1,538	3,737	-	-	-	-	. =
HA/PA (Pd/Pr)(%)		17.0	(69.5)	96.4	-	98.6	(40.7)	46.7		76.7	(37.4)	27.1	-	12.5	(30.5)					
Whole Paddy/2	65,845	45,101	5,714	5,466	71,413	69,160	4,775	4,481	71,806	56,035	3,586	3,507	73,280	61,242	-	12	-	- .	-	-
HA/PA (Pd/Pr)(%)		68.5	(8.7)	95.7	-	96.8	(6.7)	93.8	-	78.0	(5.0)	97.8	-	83.6	:	· ·				
Rainfed/3	50,938	31,108	0	Ω	55,071	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	: 0	53,763	38,519	0	0	55,266	43,857	<u>.</u>	-		54	_	-
HA/PA (Pd/Pr)(%)		61.1	(0)	-		99.4	(0)	-	· ·	71.6	(0)			79.4						
									1.11	-					•					

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Unit: ha

Table 6.10 (3) Planted Area and Harvested Area on Irrigated Paddy Field in Kab. Bone during Recent Five Years

-) are planted area and harvested area in each system according to "Luas Sawah Areal Baku dan Luas Sawah Areal Tanam Propinsi Note: /1 Figures in (Sul-Sel", Bid. Pengairan DPUP Sul-Sel, Oct. 1978. (Referred as "PU Data")
 - /2 Planted area and harvested area of whole paddy (in Kab. Bone) is according to Table 3.4.2 in Progress Report on the Master Plan Study CESSWRDP, Feb., 1979.
 - 1/2 Name of system with underline shows technical irrigation system, system without underline is semi-technical system, and rainfed includes village irrigation system.
 -) is according to "List of Inventory of Irrigation Area in 1978" DPUP /4 Irrigable area in each year is based on Table 6.3 and it shown in (Sul-Sel, Oct., 1978.
 - 15 Total area of planted area and harvested area of dry season paddy in each system in 1975/76 and 1976/77 which is estimated based on the PU Data is over whole paddy in Kab. Bone. Assuming that all planted area and harvested area of dry season paddy in Kab. Bone is in irrigated field only, planted area and harvested area in irrigated field during three years are assumed and then in MPA and outside MPA are estimated proportionally to the Irrigable Area.
 - /6 Applying an average PA/IA of wet season paddy in each region during three years from 1975 to 1977, planted area of 1974 wet season paddy is estimated for respective regions.
 - /7 Applying an average HA/PA of wet season paddy in each region during three years from 1975 to 1977, harvested area of 1974 wet season paddy is estimated for respective regions.
 - 18 According to revised figures of PU Data, planted area of 1977/78 dry season paddy in hilly area is 98% of it of 1976/77, planted area of 1977/78 in Unji system is only 43% and it of outside MPA is 110%. Applying same rate for estimated area of 1976/77 dry season paddy, planted area 1977/78 dry season in respective region is estimated. HA/PA of 1977/78 dry season paddy is almost 100% according to PU Data. Harvested area of 1977/78 dry season paddy estimated accordingly.

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·		**************************************				ason Padd	Name and Address of the Owner o						Dry Se	ason Padd	У		
Description/ Water Source	Total Paddy		Harvest	Farm Require-	Effec- tive	Rainfall	Deficit on Farm	Gross Require-	Supplied by Irri-	-	harvest	Farm Require-	Effec- tive	Rainfal1	Deficit on Farm	Gross Require-	Supplie by Irri
water source	Field	Area	Area	ment	<u>Rainfall</u>	Consumed	(Net Req't)		gation	Area	Area	ment	Rainfall	Consumed	(Net Req't)	ment	gation
·	<u>(ha)</u>	<u>(ha)</u>	(ha)	<u>(mm)</u>	(mm)	$(106m^3)$	(nm)	(mm)	$(10^{6}m^{3})$	(ha)	(ha)	(mm)	(mm)	$(10^{6}m^{3})$	(mm)	(mm)	$(10^{6}m^{3})$
1974/75									· .								
Irrigation														:			
Sadang System	13,560			800	417	42.5	383	547	55.8	10,630			122	12.7	702	1,001	104.1
Other outside MPA (Sub-total)	4,160	4,160 14,743	3,732		417	15.4	383	547	20.2	3,149	3,146	824	122	3.8	702	1,001	31.0
Inside MPA	4,500	4,500			417	57.9 17.9	383	547	76.0	13,779	13,512	0.07	100	16.5	700	1 001	135.1
Total Irrigation	22,220		•		·+ J. /	75.8	202	547	23.5 99.5	3,506	3,488 17,000	824	122	4.3 20.8	702	1,001	35.0
Rainfed	22,880	6,517	6,181		417	25.9	-	-	-	1,463	469	(122)	122	20.8	<u> </u>	_	170.1
Total	45,100					101.7			99.5	1	17,469	(****)	144	21.4	-		170.1
L975/76	·		•							20,110	~,,+02			21.44			1/0.1
Irrigation	1.1									÷				:			
Sadang System	13,560	11,001	10,962	814	427	47.0	387	552	60.7	11,428	11,395	822	116	13.2	706	1,008	114.9
Other outside MPA	4,416	4,416	4,381	814	427	18.8	387	552	24.3	3,642	3,642	822	116	4.2	706	1,008	36.3
(Sub-total)	17,976	15,417	15,343	: •		65.8	· · ·		85.0	15,070		VLL		17.4	100	1,000	151.2
Inside MPA	5,714	5,714	5,691	814	427	24.3	387	552	31.5	4,420	4,350	822	116	5.1	706	1,008	44.4
Total Irrigation	23,690	•	•			90.1			116.5	19,490	19,387			22.5		,	195.6
Rainfed	21,410	14,323	13,332	(427)	427	56.8	-	-	•	3,751	3,749	(116)	116	4.3		-	· •• •
Total	45,100	35,454	34,366			146.9			116.5	23,241	23,136			26.8			195.6
976/77																	
Irrigation																	
Sadang System		12,350	•	814	198	23.6	616	880	104.7	12,564	12,467	823	230	28.8	593	847	105.9
Other outside MPA	4,522	4,522	3,851	814	198	7.5	616	880	33.4	3,669	3,763	823	230	8.5	593	847	31.3
(Sub-total) Inside MPA	18,082 7,071	16,872	15,775	01/	100	31.1	(1)	000	138.1	16,233	16,230			37.3			137.2
Total Irrigation	25,153	7,071 23,943	6,562 22,337	814	198	13.1 44.2	616	880	58.1 196.2	4,965	4,965	823	230	11.5	593	847	42.4
Rainfed	19,947	13,039	10,174	(198)	198	20.2	_	-	190.2	21,198 205	21,195 174	(230)	230	48.8 0.5	-	-	179.6
Total	45,100	36,982	32,511			64.4			196.2	21,403	21,369	(100)	200	49.3	_	_	179.6
977/78				1						21,403	21,505			47.5		-	179.0
Irrigation				·						· .							
Sadang System	13,560	11,342	10,634	803	186	19.9	617	882	94.4	11.861	11,105						
Other outside MPA	4,941	4,941	4,189	803	186	7.8	617	882	37.0	4,600	4,600				9		
(Sub-total)	18,501		14,823			27.7	· .		131.4	16,461	15,705						
Inside MPA	7,114	7,114	6,745	803	186	12.5	617	882	59.1	5,596	5,587			-			
Total Irrigation		23,397	21,568	(100)	101	40.2			190.5	22,057	21,292						
Rainfed		16,552	-	(186)	186	21.0	-	P Ca	-	-	-			·			
Total	45,100	39,949	32,864		· .	61.2	-		190.5	-							
verage & Total Paddy	Field in	1978	· · ·					-				а.					
Irrigation	19 560	11 210	10 027			22.0			70.0								
Sadang System Other outside MPA	13,560 5,337	4,510	10,937			33.2 12.4			78.9	11,621				18.2*			108.3*
(Sub-total)	18,897	15,829	14,975			45.6	·		28.7 107.6	3,765	3,788			5.5*			32.9*
Inside MPA	8,119	6,100	5,820			17.0			43.1	15,386 4,622	15,121 4,598			23.7* 7.0*			141.2*
Total Irrigation			20,795			62.6			150.7	4,022				7.0* 30.7*			40.6* 181.8*
Rainfed	18,084	12,608	10,246			31.0			130.7		1,464*			1.8*			101.0*
Total	· · ·	34,537	· .			93.6					1						:
20 FA 2	, LOU	J4,JJ/	JL)041			73.0		<u> </u>	150.7	21,131*	20,658*	· .		32.5*			181.8*

* Average of 3 years

Table 6.12	Water Consumpt	<u>on for Paddy</u>	Cultivation	in Kab.	Soppeng	& Wajo
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	· · · · · · · · · · · · ·					ason Padd								ason Paddy		0	0
Description/ Water Source	Total Paddy	Planted Area	Harvest Area	Farm Require-		Rainfall Consumed	on Farm		Supplied by Irri-	Planted Area	Harvest Area	Farm Require-		каннан	Deficit on Farm		Supplied by Irri
Water Source	<u>Field</u> (ha)	(ha)	(ha)	ment (mm)	Rainfall (mm)	$\overline{(106m^3)}$	(Net Req't) (mm)	ment (mm)	$\frac{\text{gation}}{(10^6 \text{m}^3)}$	(ha)	(ha)	ment (mm)	Rainfall (mm)	$\frac{106 \text{ m}^3}{(106 \text{ m}^3)}$	(Net Req't) (mm)	ment (mm)	$\frac{\text{gation}}{(106\text{m}^3)}$
Kab. Soppeng								<u>}</u>			<u> </u>			 	·····		
1974/75									·					· .			
Irrigation	7,672				325	17.9	383	547	30.1	3,667	3,667	838	171	6.3	667	953	35.3
Rainfed	14,028	11,658	8,951	(325)	325	29.3		-	.	-	10,767	(171)	171	18.3	••	-	
Total	21,700	19,330	14,467			47.2			30.1	· –	14,434			.24.6			35.3
1975/76													~ ^ /	10 1	(0)	050	
Irrigation	8,860				488 488	43.4 53.2	232	331	29.5	6,663	5,270 9,879	835 (234)	234 234	12.4 22.9	601	859	45.5
Rainfed	12,840			(400)	400		-		-	-		(234)	234				45.5
Total	21,700	21,649	19,765			96.6			29.5	-	15,149			35.3			42+3
1976/77	0 210	0 12/	0 622	707	261	21 0	366	523	45.0	6,955	6,955	839	417	29.2	422	603	42.2
Irrigation Rainfed	9,310 12,390				361 361	31.0 36.5		-	- 4J.0 -	-	4,844	(417)	417	20.0	-+22	-	4616
Total		20,861		<u> </u>		67.5			45.0	_	11,799			49.2			42.2
	21,700	20,001	10,724			0115											
1977/78 Irrigation	9,470	9,375	8,475	718	362	30.8	356	509	43.3	6,459	6,369						
Rainfed	12,230				362	28.9			-	-	*0						
Total	21,700	21,038	16,526			59.7			43.3	-							
Average & Total Pa	1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A		•														:
Irrigation	9,784		7,866			30.8			37.0	5,936	5,565			16.0*			41.0
Rainfed	11,916	11,960	9,505			37.0				-	8,497	κ.		20.4*		:	-
Total	21,700	20,720	17,371			67.8	-		37.0	-	13,794	*		36.4*			41.0*
ab. Wajo																	
1974/75		·									. ¹ .					•	
Irrigation	1,500				429	2.6	359	513	3.1	584	553	841	114	0.7		1,039	6.2
Rainfed	67,500				429	170.7	-	-	-	.833	676	(114)	114	0.7	~	-	-
Total	69,000	63,538	40,447			173.3			3.1	1,418	1,229			1.4			6.2
1975/76								004	<i></i>	1 510	1 010	0.2.5	100	1 (716	1 001	10.0
Irrigation Rainfed	2,264 66,736				555 555	10.0 318.0	200	286	5.1	1,512 930	1,312 124	835 (120)	120 120	1.6 0.1	715	1,021	13.3
Total	·	63,941			کی کی کی	328.0			5.1	2,442	1,436	(====)		1.7			13.3
	09,000	03,941	59,000			J20.0	·.		a • x	2,442	1,						
1976/77 Irrigation	2,264	2,264	1,872	774	451	8.6	323	461	8.8	122	118	836	171	0.2	665	950	1.0
Rainfed		64,383			451	158.3	-	-	-	100		(171)	171	0.2	-	-	
Total	69,000	66,647	36,989	· .		166.9	·	на страница При 1970 година При 1970 годи 1970 годи 1970 година При 1970 година При 1970 годи	8.8	222	188			0.4			1.0
1977/78	-			н. 1													
Irrigation	2,264	2,264	1,935		319	6.1	450	643	12.2	521	521						
Rainfed	66,736	62,310	29,657	(319)	319	94.7	-	-		-	-		i. :				
Total	69,000	64,574	31,592			100.8		а. С	12.2	-	-			· ·	:		
Average & Total Pa	ddy Field	in 1978		· · ·					, , ,		· · · ·						
Irrigation	2,264	2,073				6.8			7.3	685	626	6		0.9*			6.81
Rainfed	66,736		40,480			185.4			- ·	6217				0.3*			
Total	69,000	64,675	42,024	1		192.2			7.3	- 1,361	* 951 ⁻	k .		1.2*			6.8*

* Average of 3 years

					Wet Se	ason Padd	у							son Paddy	75 CL	Croca	0
Description/	Total	Planted	Harvest	Farm	Effec-	Rainfall	Deficit	Gross	Supplied	Planted	Harvest	Farm Require-	Effec-	Rainfall	Deficit on Farm	Gross Require-	Supplie by Irri
Water Source	Paddy Fiold	Area	Area	Require- ment	tive Rainfall	Consumed			by Irri- gation	Area	Area	ment	Rainfall	Consumed	(Net Reg't)		gation
	Field (ha)	(ha)	(ha)	(mm)	(mm)	(106m ³)	(mm)	(mm)	(10 ⁶ m ³)	(ha)	(ha)	(mm)	(mm)	$(106m^3)$	(mm)	(mm)	(106m3)
974/75									Т	н 1							
Irrigation												700	100		E 0 0	746	3.0
Inside MPA(Hilly)	930				495	4.0	163	233	1.9	349	334	702	180 310	0.7	522 351	501	3.0
Inside MPA(Coastal			1,440	606	528	7.9	78	111	1.7	640	612 946	661	210	2.6	331	501	6.0
(Sub-total)	2,630					11.9	0 F	111	3.6 13.0	989 4,725	4,520	661	310	14.0	351	501	22.5
Outside MPA	12,609			606	528	61.8 73.7	78	111	16.6	5,714	5,466	UUL	510	16.6	332		28.5
Total Irrigation	15,239			(512)	512	159.2			1010	J,724 0							-
Rainfed	65,461	-	•		J12				16.6	5,714				16.6			28.5
Total	80,700	65,845	45,101			232.9			10.0	5,714							
<u>975/76</u>											· · ·						
Irrigation Inside MPA(Hilly)	1,170	984	834	663	619	5.0	44	63	0.5	291	273	702	227	0.7	475	679	2.0
Inside MPA(Coastal					528	6.3	81	116	1.4	535	502	659	216	1.1	443	633	3.2
(Sub-total)	2,870	-				11.3	· ·	• •	1.9	826				1.8		4.4.4	5.2
Outside MPA	13,984				528	65.5	.81	116	14.4	3,949		659	216	8.0	443	633	23.4
Total Irrigation	16,854					76.8			16.3	4,775			· .	9.8			28.6
Rainfed		55,071		(574)	574	314.6			-	0	0			.			-
Total	80,700	71,413	69,160	I		391.4			16.3	4,775	4,481			9.8			28.6
976/77								•									
Irrigation	1. A.									a10	01/	(00	076	0.6	422	603	1.2
Inside MPA(Hilly)	1,170				477	5.2	182	260	2.9	219 401		698 650	276 260	1.0	390	557	2.2
Inside MPA(Coastal					412	7.0	194	277	4.7 7.6	620		020	200	1.6		351	3.4
(Sub-total)	2,870				410	12.2 60.6	194	277	40.7	2,966		650	260	7.5	390	557	16.2
Outside MPA	15,323				412	72.8	1.24	277	48.3	3,586	-	0.5 0	2	9.1			19.6
Total Irrigation Rainfed	18,193 62,507				445	171.3				0							
	-		56,035			244.1			48.3	3,586	3,507			9.1			19.6
Total	80,700	71,000	. 50,055														
977/78 Irrigation								1. 									-
Inside MPA(Hilly)	1,170	1,149	1,100	658	329	3.6	329	470	5.2	215							
Inside MPA(Coastal) 1,700	1,530	1,428	604	349	4.9	255	364	5.1	172							
(Sub-total)	2,870					8.5			10.3	387							*
Outside MPA		15,335			349	52.0	255	364	54.2	3,263							
Total Irrigation			17,385			60.5	·		64.5	3,650 0							
Rainfed	62,194	55,266	43,857	(339)	339	148.5	÷		-								
Total	80,700	73,280	61,242	· · ·		209.0		·	64.5	3,650	3,650						
verage & Total Paddy	Field i	<u>n 1978</u>										· .					
Irrigation	1 170	1:017	0.01			. 5			2.6	269	259			0.7*			2.1
Inside MPA(Hilly)	1,170					4.5			3.2	437				1.3*		-	2.8
Inside MPA(Coastal						11.0		1.0	5.8	706				2.0*			4,9
(Sub-total)	2,870					60.0			30.6	3,726				9.8*			20.7
Outside MPA	15,693 18,563		13,418 15,825			71.0			36.4	4,431				11.8*			25.6
Total Irrigation Rainfed	62,137		42,060			198.4				C			·				-
•			57,885			269.4			36.4	4,431	. 4,276	•		11.8*	.*		25.6
Total	00,700	10,000	دەەرىپ	,	· · · ·	20204		· .		· · · · ·						· · · · · · · · · · · · · · · · · · ·	

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* Average of 3 years

Kabupaten	Paddy Field		rvested Are	a		sumption of		Supp1:	Led by Irri	gation	Tota	al Consum	otion
		Wet	Dry			ctive Rain		XX_ 4	D	17 - 4 - 1	Mat	Dry	Total
Water Source	$10^{6} m^{3}$	<u>Season</u> 10 ³ ha	<u>Season</u> 10 ³ ha	<u> </u>	$\frac{\text{Wet}}{10^6 \text{m}^3}$	Dry 10 ⁶ m ³	$\frac{\text{Total}}{10^6 \text{m}^3}$	$\frac{\text{Wet}}{10^6 \text{m}^3}$	Dry 10 ⁶ m ³	<u>Total</u> 10 ⁶ m ³	<u>Wet</u> 10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³
	10 11	LU IIA		10 114	<u>10_itt</u>	10 11	<u>10 m</u>	<u></u>					
SIDRAP	1 A ' C	11.0		00 /	33.2	18.2*	51.4	78.9	108.3*	187.2	112.1	126.5	238.6
Sadang System	13.6	11.0	11.4	22.4	12.4	5.5*	17.9	28.7	32.9*	61.6	41.1	38.4	78.5
Other outside	5.3 18.9	4.0 15.0	15.1	30.1	45.6	23.7*	69.3	107.6	141.2*	248.8	153.2	164.9	318.
Sub-total													
Inside MPA	8.1	5.8	4.6	10.4	17.0	7.0*	24.0	43.1	40.6*	83.7	60.1	47.6	107.
Total Irrigation	27.0	20.8	19.7	40.5	62.6	30.7*	93.3	150.7	181.8*	332.5	213.3	212.5	425.
Rainfed	18.1	10.3	1.5*	11.8	31.0	1.8*	.32.8	-	•	-	31.0	1.8	32.8
Total	45.1	31.1	20.7*	51.8	93.6	32.5*	126.1	150.7	181.8*	332.5	244.3	214.3	458.0
OPPENG				:									
Irrigation	9.8	7.9	5.6	13.5	30.8	16.0*	46.8	37.0	41.0*	78.0	67.8	57.0	124.
Rainfed	11.9	9.5	8.4*	17.9	37.0	20.4*	57.4	-	-		37.0	20.4	57.
Total	21.7	17.4	13.8*	31.2	67.8	36.4*	104.2	37.0	41.0*	78.0	104.8	77.4	182.
OLAV	· .												
Outside MPA	0,2	0	0	0	0	0	. 0	0	0	0	0	0	
Inside MPA	2.3	1.5	0.6	2.1	6.8	0.9*	7.7	7.3	6.8*	14.1	14.1	7.7	21.
Total Irrigation	2.5	1.5	0.6	2.1	6.8	0.9*	7.7	7.3	6.8×	14.1	14.1	7.7	21.
Rainfed	66.5	40.5	0.3*	40.8	185.4	0.3*	185.7	-	e3 .	. –	185.4	0.3	185.
Total	69.0	42.0	0.9*	42.9	192.2	1.2*	193.4	7.3	6.8*	14.1	199.5	8.0	207.
ONE											· ·		
Outside MPA	15.7	13.4	3.6	17.0	60.0	9.8*	69.8	30.6	20.7*	51.9	90.6	30.5	121.
Inside MPA	2.9	2.4	0.7	3.1	11.0	2.0*	13.0	5.8	4.9*	10.7	16.8	6.9	24.
Total Irrigation	18.6	15.8	4.3	20.1	71.0	11.8*	82.8	36.4	25.6*	62.0	107.4	37.4	144.
Rainfed	62.1	42.1	0	42.1	198.4	. 0	198.4	-	-	-	198.4	0	198.
Total	80.7	57.9	4.3	62.2	269.4	11.8	281.2	36.4	25.6*	62.0	305.8	37.4	343.
OTAL	· · · · ·								•				
Outside MPA	34.8	28.4	18.6	47.0	105.6	33.5	139.1	138.2	161.9	300.1	243.8	195.4	439.
Inside MPA	23.1	17.6	11.6	29.2	65.6	25.9	91.5	93.2	93.3	186.5	158.8	119.2	278.
Total Irrigation	57.9	46.0	30.2	76.2	171.2	59.4	230.6	231.4	255.2	486.6	402.6	314.6	717.
Rainfed	158.6	102.4	10.2	112.6	451.8	22.5	474.3	-	-	-	451.8	22.5	474.
Total	216.5	148.4	40.4	188.8	623.0	81.9	704.9	231.4	255.2	486.6	887.4	337.1	1,191.

Table 6.14 Water Consumption for Paddy Caltivation in Kab. Sidrap, Soppeng, Wajo and Bone /1

/1 All figures are average during 4 years from 1974 to 1977 except following two:

Area of irrigable paddy field is in 1978.
 Figures with * are average 3 dry seasons, 1974/5, 1975/6 & 1976/7.

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	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annua
ya (CA	= 514	km ²)										
		÷											
<u>1975</u>		:	_						_	170	0.1	16.0	
Qm Qi	-	-	-	_	0,0	0.8	2.5	1,9		0		16.8 3.2	
Q .	-	-	.	-	-	-	~					20.0	
										±	****	20.0	
1976							÷ ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;						
Qm												10.5	
Qi .													2.5
Q	18.1	17.2	33.4	27.6	32.2	27.8	32.3	13.4	6.8	4.8	13.5	15.9	20.3
1977													
<u>Qm</u>	10 7	12.2	24.8	39.1	14.3	21 4	4.0	16.9	1.1	05	6.2	19.4	14.2
Qi									1.5			4 1	
Q	15.4	16.7	26.0	39.3	16.2	21.4	7.9	20.5	2.6	0.5	7.6	23.5	
· X.									- • -	- • •			. – ••
1978													
Qm			28.5		-	-	-	24.8		-	: •••	-	
Qi	3.1				-	**	-	-	-	-	-	- . '	
Q	28.3	17.0	29.3	~	- .		-			-	-	. **	
Average	3												•
Qm		12.2	28.3	33.2	22.6	24.6	17.2	16.9	2.5	7.6	9.0	15.6	17.2
<u>õ</u>												19.8	
Q̃∕CA									0.9			3.9	
tu-Batu 1975	(CA -	- 113	km ²)									
<u>Qm</u>		-	**	-		7_4	6.5	2.3	4.6	4.6	2.8	8.0	<u>-</u>
Qi	_	-	-	0.8	0.8				0.2			1.0	-
Q	••••	-	-	~		8.8			4.8			9.1	-
1976				~ ^			2.0		~ ~	• •		0.0	
Qm												0.8 1.4	
Qi												2.2	
Q	0.4	2.1	4,3	7,4	, J.4	2.0	4.0	<i>с.</i> _	. 0.0	0.1	0.5	4+4	4.5
1977													
Qm	12.4	11.9	3.9	.7.1	1.8	9.3	0,9	1.6	0.1	0.0	0.3	2.4	4.3
	0.9											1.2	
	13.3	12.8	4.4	7.2	3.5	10.1	3.6	2.8	0.7	0.0	1.3	3.6	5.3
Q													
				1	55	2 5	16	27	1.2	2.9			_
1978	19	2.8	2.1	2 3	· · · · · ·								
<u>1978</u> Qm			2.1				1.)	0.8	0.1	· 0	÷-		-
<u>1978</u> Qm Qi	1.4	0.9	0.1	1.6	0.9	1.9							
<u>1978</u> Qm	1.4	0.9	0.1	1.6	0.9	1.9			0.1 1.3			-	-
<u>1978</u> Qm Qi	1.4 3.3	0.9 3.7	0.1 2.2	1.6 3.7	0.9 6.4	1,9 4,4	2.7	3.5	1.3	2.9		-	·
<u>1978</u> Qm Qi Q <u>Average</u>	1.4 3.3 <u>e</u> 6.5	0.9 3.7 5.3	0.1 2.2 3.0	1.6 3.7 3.2	0.9 6.4 2.9	1.9 4.4 4.9	2.7	3.5	1.3	2.9	1.3	3.7	3.2
<u>1978</u> Qm Qi Q Average	1.4 3.3 <u>e</u> 6.5	0.9 3.7 5.3 6.2	0.1 2.2 3.0 2.2	1.6 3.7 3.2 4.1	0.9 6.4 2.9	1.9 4.4 4.9 6.5	2.7 2.9 4.8	3.5 1.7 2.9	1.3	2.9 1.9 1.9	1.3	- - 3.7 5.0 4.4	3.2 4.2

Table 6.15 (1) Estimated Mean Monthly Discharges (1/2)

.

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
angkemme	(CA	= 104	km ²)			·· • • • • • • • • • • • • • • • • • •						· · · · · · · · · · · · · · · · · · ·
1974													
Qm	· <u>-</u>			-	3.0	4.3	4.0	2,6	2.3	4.4	2.8	5.1	•••
Qi				0.1	0.1	0	0	0	0	0	0.1	0.1	
Q	~		-	-	3.1	4.3	4.0	2.6	2.3	4.4	2.9	5.2	-
1975													
Qm	4.8	4.9	4.6	5.5	3.7*	1.5	2.4	2,5	2,3	1.5	1.8	5,6	3,4
Qi	0.1	0.1	0	0	0	0.1	0.1	0.1	0	0	0.1	0.1	0.06
Q	4,9	5.0	4.6	5.5	3.7	1.6	2.5	2.6	2.3	1.5	1.9	5.7	3.5
1976													
Qm	4.9	1.9		2.9	2.3	3.4	3.9	2.4	1.4	3.1	2.7	5.0	3.0
Qi	0.1	0.1		0	-	. 0				. 0		0,1	0.05
Q	5.0	2.0	2.1	2.9	2.4	3,4	4.0	2.5	1.4	3.1	2.7	5,1	3,1
1977													
Qm	12.7	14.6	7.5	7.9	5.9	7.1	4.5	3.0	2.1	2.7	2.3	6.0	6.4
Qi	0	0.1	0	0.1		0				0	0.1	0	0.05
Q	12.7	14.7	7.5	8.0	6.0	7.1	4.6	3.1	2.1	2.7	2.4	6.0	6.4
1978												· · ·	·
Qm	5.1	4.1	5.1	4.1									
Qi	0.1	0.1	Ó	0.1						·			
Q	5.2	4.2	5.1	4.2									
Average				. :									- i -
Qm	6.9	6.4	4.8		3.7			2.6	2.0	2.9	2.4	5.4	4.2
Q	7.0	-	4.8			4.1							4.2
Q/CA	6.7		4.6	5.0	3.7	3.9	3.7	2.6	1.9	2,8	2.4	5,3	4.0
(ˈm͡/se	c/100	km)				÷		•					
					· · · · · · · · · · · · · · · · · · ·	·	· · · · · ·				·		

Table 6.15 (2) Estimated Mean Monthly Discharge (2/2)

Note: Qm : Discharge observed at respective gauging stations (m^3/sec) Qi : Estimated withdrawal for irrigation (m^3/sec) Q/CA : Specific discharge $(m^3/sec/100 \text{ km}^2)$

Table 6.16 (1) Estimation of Mean Monthly Discharge of the Lawo and Padangeng Rivers (1/2)

					. (ge q: m ³ ,	/sec/l
River	c :	Langk	emme	Lav	^{VO} . 2	Batu-1	Batu,	Padan	geng
CA	:	104	Km ²	64	Km ²	113	Km	107	Km
		Qa	qa	Qb	qb	Qc	qc	q	<u>Q</u>
		· .							
1974	Apr.		2.0	1 64	2.9*	2.8*	2.5*	2.7	2.9
	Мау	3.1	3.0	1.9*		4.0*	3.5*	3.8	4.1
	Jun.	4.3	4.1	2.6*	4.0* 3.7*	3.6*	3.2*	3.5	3.7
	Jul.	4.0	3.8	2.4*	2.4*	2.1*	2,1*	2.3	2.5
	Aug.	2.6	2.5	1.5*	2.4*	2.1*	1.9*	2.0	2.1
	Sep.	2.3	2.2	1.3*	2.0"	2.1		2.0	
	Oct.	4.4	4.2	2.6*	4.1*	4.0*	3.5*	3.8	4.1
	Nov.	2.9	2.8	1.7*	2.7*	2.6*	2.3*	2.5	2.7
	Dec.	5.2	5.0	3.1*	4.9*	4.6*	4.1*	4.5	4.8
	Dec.								
				·				4.3	4.6
1975	Jan.	4.9	4.7	2.9*	4.6*	4.4*	3.9*	4.3	4.6
•	Feb.	5.0	4.8	3.0*	4.7*	4.4* 4.2*	3.9*	4.3	4.3
	Mar.	4.6	4.4	2.8*	4.3*	4.2*	3.7*	4.0	4.0
	Apr.	5.5	5.3	3,4*	5.3*	5,0*	4.4*	4.9	5.2
	May	3.7	3.6	2.2*	3,5*	3.4*	3.0*	3.3	3.5
	Jun.	1.6	1.5	0.9*	1.4*	8.8	7.8	4.6	4.9
	Jul.	2.5	2.4	2.2	3.4	8.2	7.3	5.4	5.8
	Aug.	2.6	2.5	1.3	2.0	3,3	2.9	2.5	2.7
	Sep.	2.3	2.2	2.0	3.1	4.8	4.2	3.7	4.0
	-								1 0
	Oct.	1.5	1.4	1.2	1.8	4.6	4.1	3.0	3.2
	Nov.	1.9	1.8	0.9	1.4	3.9	3.5	2.5	2.7
	Dec.	5.7	5.5	4,5	7.0	9.1	8.1	7.6	8.1
1070	Tan	5.0	4.8	3.5	5.5	6.4	5.7	5.6	6.0
1976	Jan. Fob	5.0 2.0	4.8	2.5	3.9	2,1	1.9	2.9	3,1
	Feb.	2.0	2.0	2,0	3.1	2.9	2.6	2.9	3.1
	Mar.	κ, , Τ	2.0	2,0	2.2	2.2		- • -	
÷	Apr.	2.9	2.8	1.7*	2.7*	1.4	1.2	2.0	2.1
	May	2.4	2.3	1.7	2.7	3.4	3.0	2.9	3.1
	Jun.	3.4	3.3	2.2	3.4	2.8	2.5	3.0	3.2
	Jul.	4.0	3.8	1.1	1.7	4.6	4.1	2.9	3.1
	Aug.	2.5	2.4	0.2	0.3	2.1	1.9	1.1	1.2
	Sep.	1.4	1.3	2.2	3.4	0.6	0.5	2.0	2.1
		: • · ·				~ 1	0.3	0 6	0.6
	Oct.	3.1	3.0	0.7	1.1	0.1	0.1	0.6	
	Nov.	2.7	2.6	1.3	2.0	0.9	0.8	1.4	1.5
	Dec.	5.1	4.9	4.0	6.3	2.2	1.9	4.1	4.4
1077	Tan	12.7	12.2	7.9*	12.4*	13.3	11.8	12.1	12.9
1977	Jan. Fob	14.7	12.2	9.2*	14.4*	12.8	11.3	12.9	13.8
	Feb.		7,2	4.6*	7.2*	4.4	3.9	5.6	
	Mar.	7.5	1.6	4.0"		-7 + -E			

(Unit: Mean Monthly Discharge Q: m³/sec) (Specific Discharge q: m³/sec/100 km²)

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					u N 1992 - Alfred Martin	- ·	c Discha		
River		Langx	emme ₂	5uL	wo 2	Bacu-	Batu ₂		ngèng
CA	:	104	Km		<u> </u>	113	Km	107	Km
	· · ·	Qa	qa	Qb	dp	Qc	đc	q	<u>Q</u>
l9 77	Apr.	8.0	7.7	5.4	8.4	7.2	6.4	7.4	7.9
	May	6.0	5.8	3.6	5.6	3,5	3,1	4.4	4.7
	Jun.	7.1	6.8	10.3	16.1	10.1	8.9	12.5	13.4
	Jul.	4.6	4.4	2.3	3.6	3.6	3.2	3.4	3.6
	Aug.	3.1	3.0	1.1	1.7	2.8	2.5	2.1	2.2
	Sep.	2.1	2,0	0.6	0.9	0.7	0.6	0,8	0.9
	Oct.	2.7	2.6	0.3	0.5	0.0	0.0	0.3	0.3
	Nov.	2.4	2.3	0,5	0.8	1.3	1.2	1.0	1.1
	Dec.	6.0	5,8	3.2	5.0	3.6	3.2	4.1	4.4
978	Jan.	5.2	5.0	6.0	9.4	3.3	2.9	6.2	6.6
	Feb.	4.2	4.0	3.8	5.9	3.7	3.3	4.6	4.9
	Mar.	5.1	4.9	5.4	8.4	2.2	1.9	5.2	5.6
	Apr.	4.2	4.0	-	–	3.7	3.3		
	May					6.4	5.7		
	Jun.		1	:		4.4	3.9		
	Jul.					2.7	2.4		
	Aug.					3.5	3.1		
	Sep.	÷ .,				1.3	1.2		

Table 6.16 (2) Estimation Mean Monthly Discharge of the Lawo and Padangeng Rivers (2/2)

Note: Discharge with * and discharge of the Padangeng River are estimated based on the correlation between Langkemme and Lawo ro Batu-Batu as shown on Fig. 6.4.

qb = 1.036 qa - 0.24

qc = 0.827 qa + 0.01q = (qb + qc)/2 Table 6.17 (1) Available Water for Irrigation (1/3)

(Estimated Mean Monthly Discharge)

•

											(Un	(Unit: m	т ³ /sec)	
River		-												
Catchment Area	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	oct.	Nov.	Dec.	Annual
0 40 CL18 (C)	1073 1073			1		ហ	v		a	1 . Ye	ם ה	. <	α	
שדדם	•		1	1	•	n i	.))) - - -) (
	1974		ω ω	m		ന	6	÷.	с. С	54.2	28-2	ώ	13.1	
	1975	9,8	28.7	23		m	ъ.		e,	47.2	28.9	14.8	<u></u>	ŝ
	-		ເ ເ	2		н	4		r.	2.9	6-4	11.5	ۍ و	9 6
$CA = 379 \text{ km}^2$	km ⁴ 1977	9.2	l3.2*	7.7	29.5	17.2	25.8	10.6	17.2	2-5	2.4	2.5	31.0	
	1978	18.3	11.7	27					·					
	Average	10.1	13.2	14.4	19.3	27.2	21.8	28.0	20.5	28.6	16.8	12.3	18.5	19.2
(2) Boya at E>	Existing Intake	e.							. • •		•			• . :
		I	1	E			ം	68,8*	•	•	•		38.1*	T
	1974	10.4*	~~	ഹ	20.5*	25.1*	22.8*	43.3*	16.5*	73.5*	38.2*	24.8*	17.8×	പ്
	1975	13.3*	ŝ				5	49.0*	· •				20.0	32.1
	م I976	r-l	r ~	33.			~	32.2					ഹ	0
CA = 514 H	km ⁴ 1977	15.4	Q.	26.	•	•	1	7.9					ი -	0
·	1978	28.3	5	29,	·									
	Average	17.1	20.3	25.1	29.4	36.1	28.5	40.2	26.8	39.2	17.5	15.4	23.1	26.6
(3) Batu-Batu at G.S	at G.S.													
	1974	ı	1	ŧ	1	•	4.0*			•	•	- a		1
	1975	4,4*	•	•	•	3.4*	8.8	8,2	а . З	4.8	4.6	9 . 6	9.1	ъ. З
			•		•	•	2.8	 4 	٠		•	•		2.5
CA = 113 k	km ² 1977	13.3	12.8	4.4	7.2		10.1	3.6		•			τ.	. •
	1978	е, С	· •		•						•.			
	Average	6.9	5 . 8	3.4	4.3	3.3	6.4	5.0	2.6	2.1	2.2	2.2	4.9	4.1

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Note : Figures with * are estimated.

Table 6.17 (2) Available Water for Irrigation (2/3)

4,2 Annual 1.9 α 3 ທ ຕ 6.4 з.1 8°2 10°8 2.3 4.1 4.5 4.3 ŧ 3 m³/sec) ഹ ഗ * ~ ~ 3. 7 5 6.0 5.4 4°.5 4.0 3.2 2° 2 5.7 4.8 4.4 4.4 8.1 Dec. 1.7* 2.5 2.9 1.9 1.3 2.4 2.0 2.7 (Unit: 1.1 2.7 Nov. 2.6* 0.7 0.3 2.9 4.4 7.5 1.2 3.1 2.7 2.1 0.6 0.3 4.1 3.2 oct. 1.3* 2.0 ы Ч 2.3 4.2 - 4 2.1 2.3 2.1 4.0 6°0 Sep. see Table 6.8) 3.7 2.5 2 5.8 2.7 4 1.5 1.9 0.0 3 2 6 9 2.7 1.0 2.2 1.1 1.2 Aug. 2.4* 3**.**8 2.3 2.0 4 0 4 0 4 0 4.1 2.2 3.1 3.6 1.1 Jul. 2.6* 0.9* 10.3 4.3 1.6 3.4 4.1 4,0 4 I 9 4 9 I 2 9 2 6.4 7.1 13.4 Jun. estimated, 1.9* 2.2* 8° .0 3.6 1.73.6 2.4 а. 1 2 . 4 . 1 6.0 ი. შ. წ 3.1 4.7 Мау 1.7* (4) Padangeng at Proposed Damsite (All discharges are 3.4* 5.2 1000 4000 10 5.4 а. 5 7.9 5.2 2.1 5.1 Apr. 1 4.6* 2.0* 2.0* з.7 7.5 4.0 5.4 4.8 4.6 2.1 6.0 9**-**2 4.3 3.1 Mar ļ 8 7 0 9 7 0 9 7 0 4,6 6.5 0 7 9 10 14.7 4.2 н е 1 те 13,8 4.9 e. 6 чер. Ľ 6.0 9 9 9 5.0 12.7 5.2 7.0 4.9 5.1 4 0 6 0 12.9 6.6 7.5 Jan. F ŧ 1975 1976 1977 1978 1974 1975 1976 1977 1978 1974 1975 1976 1977 1978 Average Average 1974 Year Average Langkenme at G.S. $= 104 \text{ km}^2$ = 107 km² Lawo at G.S. ка Кв Catchment Area 64 11 G g g River છ <u>(</u>2

Note: Figures with * are estimated

			- * . - * -			. '			· .				(Unit:	m ³ /sec)	(Q	
River	er					1:			. .							1
Cat	Catchment Area	Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	NOV.	Dec.	Annual	1.11
												:				•
6	Sanrego at G.S.	. G.S.							• •							
		1973	1		I		8.9		ł	9.6*		7.2	10.2	10.7	н. Н	
	•	1974			8.8	11.3	7.9	8.8	10.7	8 3	9.1	7.4	7.1	6.8	9.0.	
	-	1975		ω		ດ້	14.6	12.4	9.5	14.6		9.2	10.5	10.7	10.9	
		о 1976		ω		ຜ່	1.6	ۍ. و	7.6	6 0	4	5.6	5.4	7.2	7.5	
	CA = 176 km	4	10.3	8.9	10.4	8	7.0	20.8	6.3	9.6*	•	7.4*	ю. Э	6 8 0	ທ ດ	
		1978		~					•.							
		Average	9.4	8°8	8.8	9.5	9°2	12.8	8.5	9.6	9.3	7.4	8.3	6°8	9.2	
									-							
8	Walanae at	: Proposed Mong	ong Damsite	te							•					
		1974	1.	1	, I	38.3	ω			50.9			37.6	63.9	 1	
		1975	T T		78.7	144.6	317.3	205.1	198.9	123.0	79.5	89.5	111.4	72.5*	138.9	
		. 1976	174	85	82.5	57.8	4.9			25.2			20-2	60.2	69 3	
	CA = 2,684	KB'	28	361.9	151.9	108.2	m,			32.2			18.2	36.8	123.4	
			118		I	63.0	4.1			83.5			35.2	129.2	79.9	
		Average	174.0	162.1	96.3	82.4	135.1	176.7	106.0	63.0	44.5	42.6	44.5	72.5	100.0	
(6)	Gilirano	at Tarumpakkae	ae G.S.												·	
•				ł	ł	ł	1	ı	ı	ł	ı	ſ	ı	I	ł	
		1975		1	1	ł	I	I	ł		59.7	22.22	3 ° 0	2.0		
			1	Ö		з. з	27.0	38,8	62.3	red.	0.8	16.1	2.3	1.0	13.8	
	CA = 300 k	km ² 1977	24.5	5 33.0	37.5	35.2	30.3	56.1	60.0	23.1	•	11.9	2.0	.00 .07	27.7	
		1978	14.	2	- et	ര	68.3	7.5	23_3							
		Average	13.5	5 11 5	16.1	19.4	41.9	34.1	48.5	17.1	25.2	16.7	2.7	2.3	20.8	

Table 6.17 (3) Available Water for Irrigation (3/3)

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Note : Figures with * are estimated

Name of Kecamatan	Seed	Urea	TSP	Agri. Chemicals	Rodenticide
Kecamatan	(kg)	(kg)	(kg)	()	(kg)
P.Lautang	. 30	80	25	0,86	0.03
T.Limpoe	30	122	34	0.55	0.014
M. Tengae	30	103	- 50	0.36	0.04
Dua Pitue	30	63	14	0.74	0,06
Cenrana	-	· •	<u> </u>		-
Ajangale	-	·		-	. - .
Dua Boccoe	30	58	25	1.02	0.1
T.Siattinge	30	58	37	2.6	• 0
Ponre	-		~	-	- ·
Ulaweng	30	25	30	0	0
Lamuru	30	85	54	1.65	0.05
Lapparija	30	41	59	0.08	0.03
Libureng		_		-	
Kahu	30	65	83	0	0
Bonto Cani	30	132	75	1.19	0.4
	:				0.02
Lalabata	30	85	1.28	0.09	0.03
Liliriaja	30	127	3	0.06	0.14
Marioriawa	30	39	0.4	0.148	0.022
Marioriwawo	30	125	4	0.147	0.042
Lilirilau	30	76	0	0.06	0.023
				-	-
Tempe	30	137	45	1.3	0.09
Tanasitolo		137	33	1.3	0.45
M. Pajo	30	92	18	1.09	0.08
Belawa	30	92 125	35	2.1	0.1
S.Paru	30	85	25	1.5	0.07
Pamana	. 30	68	25 17	0,83	0.059
Takkalalla	30	70	37	1.41	0.08
Majauleng	30		37	2.05	0,1
Sajoanging	30	112		2.0.1	V

Farm Input per Ha Used for Wet Season Paddy under Existing Irrigated Land Table 7.1

No cultivation Note: - :

~

Name of Kecamatan	Seed (kg)	Urea (kg)	TSP (kg)	Agri. Chemicals (/)	Rodenticide (kg)
	((NY)		~~~	(xy)
·					
P.Lautang	30	96	27	0.91	0.07
T.Limpoe	30	76	25	0,78	0.05
M. Tengae	30	74	42	1.1	.0.08
Dua Pitue	.30	77	24	1.23	0.04
		· · · · ·			
Cenrana	~ .	_	-		-
Ajangale	**	- .	·	-	
Dua Boccoe	30	39	16	1.2	
T.Siattinge	30	28	1.3	0.01	
Ponre	· · · · ·	-	-		· · · <u>-</u>
Ulaweng	-	-	~	-	-
Lamuru	30	95	23	1.85	0.13
Lapparija	30	54	25	0.33	0.04
Libureng			-	-	
Kahu	_	-	_	-	.
Bonto Cani	30	90	86	1.5	0.1
Lalabata	30	83	2	0.09	0
Liliriaja	30	134	6	0.142	0.025
Marioriawa	30	36	5	0.08	0.06
Marioriwawo	30	89	5	0.06	0.36
Lilirilau	30	138	39	0.9	0.23
			· · · ·		
Tempe		-	~	·	
Tanasitolo	-		-	-	
M.Pajo		-			-
Belawa	-				-
S.Paru	·	-	-	-	
Pamana	-	. –	-	-	-
Takkalalla		-		-	
Majauleng	-0-	-		-	
Sajoanging	_ '		-	-	_

Table 7.2Farm Input per Ha Used for Dry SeasonPaddy Under Existing Irrigated Land

Note: - : No cultivation

مى يىچى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب		(ប	nit: man. day)
Farming Operation	Upland Rice Area	Rainfed Area	Irrigated Area
Nursery preparation $\frac{1}{2}$	9	5	5
Ploughing & Puddling $\frac{/2}{}$	10	25	25
Transplanting/planting	10	24	24
Weeding	10	12	12
Fertilization	0	0	2
Application of chemicals	o	0	7
Harvesting $\frac{/3}{}$	-		

Table 7.3Farm Labour RequirementPer Ha for Paddy Cultivation

/1: In addition to labour, 6 cow. days are required.

/2: In addition to labour, 32 cow. days are required.

/3: Labour requirement for harvest depends on yield of paddy. Labour requirement per one ton of dry stalk paddy is estimated at about 16 man. day

· · · · · · · · · · · · · · · · · · ·				(Unit: n	nan. day)
Farming Operation	Maize	Peanuts	Soybeans	Green Beans	Cassava
Land preparation	10 /1	23 /2	23 /2	23 /2	18 /2
Seeding/planting	10	15	5	5	14
Weeding	10	10	15	14	10
Fertilization	0	Ó .	0	0	0
Application of chemicals	0	3	0	0	0
Harvesting/Drying	15	27	23	22	20
Total	45	78	66	64	62

Table 7.4Farm Labour RequirementPer Ha for Major Upland Crops

/1: In addition to labours, 14 cow. days are required.

/2: In addition to labours, 16 cow. days are required.

Sampling	Rice	Samplin	ng Place	Number	Number	Number	Number	<u>/1</u> Weight of	Weight of	Number of Sunk Grains	Percentage	<u>/2</u> Unit Yield	<u>/3</u> Unit Yield
Number		Kecamatan	of Hills per ha	of Grains per Hill	of Panicles per Hill	of Grain per Panicle	Sunk Grains per Hill(g)	1,000 Grains(g)	per Hill	of Ripened Grain	(Paddy per ha)	(Dry Stalk Paddy per ha)	
1	C4 - 63	Baru	Lalabata	152,700	614	10	61.4	9.12	21.5	425	69.2	1.39	1,82
2	IR - 30	Labessi	Marioriwawo	200,000	1,270	22	57.7	16.90	24.7	685	53.9	3,38	4.42
3	IR - 30	Galung	Liliriaja	173,300	3,013	26	115.9	46.83	21.1	2,219	73.6	8.12	10.61
4	IR - 32	Otting	Dua Pitue	187,800	1,516	20	75.8	27.84	23.7	1,177	77.6	5.23	6.84
5	local 46	Otting	Dua Pitue	152,700	1,685	14	120.4	28.81	22.5	1,278	75.0	4.40	5.75
6	IR - 32	Lanairang	Dua Pitue	152,700	2,083	23	90,6	40.73	24.3	1,673	80.3	6.22	8.13
7	IR - 26	Baru	Lalabata	160,000	2,292	20	114.6	31.46	21.3	1,479	64.5	5.03	6.57
8	IR - 26	Baru	Lalabata	160,000	1,697	17	99.8	26.04	20.8	1,250	73.7	4.17	5.45
9	IR - 5	Patangkai	Lappariaja	134,400	1,414	21	67.3	23.83	21,9	1,089	77.0	3.21	4.20
10	IR - 5	Samaenre	Lappariaja	210,000	984	15	65.6	17.10	22.7	753	76.5	3.59	4.69
11	C4 - 63	Maddumpa	Lalabata	160,000	946	15	63.1	14.70	22.1	666	70.4	2.35	3.07
12	IR - 26	Attangsolo	Marioriawa	217,700	2,725	26	104.8	38.06	21.0	1,810	66.4	8.29	10.84
13	IR - 5	Sengreng Palie	Lappariaja	160,000	1,682	16	105.1	34.30	26.8	1,281	76.2	5.49	7.18

Table 8.1 Results of Paddy Yield Survey

/1 : Grain selected by the solution of salt with 1.06 specific gravity

 $\frac{1}{2}$: Paddy = gabah kering

<u>/3</u>: Dry stalk paddy = padi kering. Conversion ratio of gabah kering/padi kering = 76.5/100

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Name of	Name of			Paddy	Field				Upland A	rea	Total Production
Kabupaten	Kecamatan	H. Area	Wet Season U. Yield	Paddy T. Production	H. Area	Dry Season Pa U. Yield	nddy T. Production	H. Area	U. Yield	T. Production	of Paddy
SIDRAP	Panca Lautang	<u> </u>	3.83	12,100	1,070	3,75	4,000	······································	**	· · · · · · · · · · · · · · · · · · ·	16,100
SIDAI	Tellulimpoe	1,260	3,83	4,800	1,000	3.77	3,800	-	-	-	8,600
	Maritengae	7,770	4,13	32,100	7,080	4.54	32,100	· _	-	-	64,200
	Dua Pitue	10,930	3.74	40,900	3,790	4.47	19,700	110	0.7	100	60,700
BONE	Cenrana	3,640	1.75	6,400	-		· -	· · · · •	-	~	6,400
DORH	Ajangale	3,860	1.60	6,200		-	-			-	6,200
	Dua Boccoe	1,760	1.97	3,500	150	2.34	400	-	-	· · ·	3,900
	Tellusiatinge	3,200	1.84	5,900	350	2.14	700	· –	-		6,600
· ·	Ponre	1,460	2.19	3,200	.	~ .		280	1.32	400	3,600
· .	Ulaweng	660	1.72	1,100	70	2.11	200	60	1.23	100	1,400
	Lamuru	1,270	2.90	3,700	430	2.61	1,100	1,270	1.43	1,800	6,600
	Lappariaja	4,710	2.68	12,600	610	4.13	2,500	1,140	1.30	1,500	16,600
	Libureng	2,910	2.03	5,900	. · · . -		-	910	1.23	1,100	7,000
	Kahu	2,260	1.71	3,900	190	2.35	500	660	1.38	900	5,300
	Bonto Cani	1,570	1.93	3,000	150	2.30	300	320	1.25	400	3,700
SOPPENG	Lalabata	5,910	3.67	21,700	5,270	4.00	21,100	190	1.45	300	43,100
	Liliriaja	5,690	3.83	21,800	5,640	4,71	26,600	120	1.55	200	48,600
	Marioriawa	2,050	3.26	6,700	1,350	3.76	5,100	-	-	~ .	11,800
	Marioriwawo	1,560	3.21	5,000	1,130	4.46	5,000	350	1.33	500	10,500
	Lilirilau	2,210	2.43	5,400	250	4.69	1,200	-	-	-	6,600
KAJO	Tempe	150	2.72	400.	-	-	-	-	•	-	400
	Tanasitolo	1,540	2.51	3,900	**		-	-		-	3,900
	Maniang Pajo	2,760	2.92	8,000	-		4 7	210	2.21	500	8,500
	Belawa	2,940	3.54	10,400	750	1.58	1,200	-	· · · ·	•	11,600
	Sabbang Paru	1,370	2.39	3,300	70	1.75	100	330	2.07	700	4,100
	Pammana	2,130	2.87	6,100	• •	жа	• • •	320	1.99	600	6,700
· .	Takkalalla	9,850	2.92	28,800	-	-	. –	-	-	-	28,800
	Majauleng	5,430	3.15	17,100	-	· ••	· -	270	2.51	700	17,800
	Sajoanging	10,800	2.40	25,900		-	-	100	1.11	100	26,000
Grand Total		104,800	2.96	309,800	29,350	4.28	125,600	6,640	1.49	9,900	445,300

Table 8.2 (1) Unit Yield and Production for Paddy in Agricultural Study

.

Table 8.2(2)

Unit Yield of Paddy for Irrigated Land,

Name of	Irrigate	ed Land	Rainfed	Area	Upland
Kecamatan	W.S.P/1	D.S.P /2	W.S.P/1	D.S.P/2	Obrand
P. Lautang	5.75	4.99	3.10	2.31	- cone
T. Limpoe	5.21	4,86	2.61	3.07	
M. Tengae	4,95	5.88	2.88	2.66	
Dua Pitue	6.02	6.79	3.10	3.89	0.7
Cenrana	-	-	1.75	1.69	
Ajangale			1,60	1.87	·
Dua Boccoe	3,41	2.97	1.90	2.05	
T. Siatinge	3,82	4.04	1.82	2.09	
Ponre		-	2.19	1.89	1,32
Ulaweng	-	-	1.72	2.11	1.23
Lamuru	-		2,90	2.61	1.43
Lappariaja	3.36	4.23	2.58	3.99	1.30
Libureng	-	. 🕶	2.03	1.84	1.23
Kahu	5.06	2.35	1.58	2,35	1.38
Bonto Cani		-	1.93	2.30	1,25
Lalabata	4.31	5.35	2.98	2.98	1.45
Liliriaja	5.04	5.77	2.70	3.84	1.55
Marioriawa	3.61	5.33	3.00	3.28	1.42
Marioriwawo	4.23	4.90	2,37	3.90	1.33
Lilirilau	4.27	5.51	2.22	3,75	1.40
Tempe	-		2,72	_	2.12
Tanasitolo	-		2.51	1.82	1.69
M. Pajo	3,74		2.84	2.48	2.21
Belawa	3.96	_	3.39	1.58	~
S. Paru	. .		2,39	1.75	2.07
Pammana	3.71	·	2.78	-	1.99
Takkalalla		- -	2.92	2.78	
Majauleng	3.76		3.07	2.50	2.51
Sajoanging	ò u .	um .	2.40		1.11

Rainfed Paddy Field and Upland Area

(unit : dry stalk paddy/ha)

Remarks: /1: Wet Season Paddy

∠2: Dry Season Paddy

	Table 8.3	Unit	Yield	and	Production	for	Maize
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Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (tor
Panca Lautang	86	0.74	60
Tellulimpoe	75	0.80	60
Maritengae	59	0.68	40
Dua Pitue	312	0.80	250
Cenrana	115	0.61	70
Ajangale	1,384	0.70	970
Dua Boccoe	403	0.65	260
Tellusiatinge	319	0.61	190
Ponre	997	0.71	710
Ulaweng	10,507	0.54	5,670
Lamuru	12,139	0.69	8,380
Lappariaja	8,319	0.73	6,070
Libureng	2,753	0.72	1,980
Kahu	2,731	0.70	1,910
Bonto Cani	2,100	0.70	1,470
Lalabata	291	0.79	230
Liliriaja	2,713	0.94	2,250
Marioriawa	274	0.80	220
Marioriwawo	4,603	0.62	3,680
Lilirilau	6,009	0.79	4,750
Tempe	152	0.87	130
Tanasitolo	243	0.64	160
Maniang Pajo	828	0.70	580
Belawa	324	0.86	280
Sabbang Paru	1,447	0.82	1,190
Pammana	2,337	0.94	2,200
Takkalalla	359	0.84	300
Majauleng	381	0.95	360
Sajoanging	267	0.85	230
Total	62,527	0.71	44,650

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Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton)
Panca Lautang	17	0.64	10
Tellulimpoe	5	0.81	
Maritengae	25	0.81	20
Dua Pitue	55	0.89	50
Cenrana	16	0.48	10
Ajangale	806	0.50	400
Dua Boccoe	104	0.49	50
Tellusiatinge	230	0.49	110
Ponre	384	0.51	200
Ulaweng	1,139	0.49	560
Lamuru	852	0.53	450
Lappariaja	2,625	0.55	1,440
Libureng	1,963	0.54	1,060
Kahu	3,761	0.55	2,070
Bonto Cani	139	0.48	70
Lalabata	41	0.71	30
Liliriaja	118	0.74	90
Marioriawa	40	0.70	30
Marioriwawo	2,164	0.71	1,540
Lilirilau	0	0.40	- -
lempe	2	0.70	· · · ·
Fanasitolo	190	0.69	130
Maniang Pajo	694	0.64	440
Belawa	284	0.95	270
Sabbang Paru	21	0.74	60
Pammana	215	0.88	190
Takkalalla	215	0.80	170
Majauleng	273	0.78	210
Sajoanging	329	0.74	240
fotal	16,767	0.59	9,900

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Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production	(ton)
Panca Lautang	193	0.37	70	
Tellulimpoe	7	0.40	1. 	
Maritengae	0	_	-	
DuaPitue	2	0.43	-	
Cenrana	0	· •	· <u> </u>	
Ajangale	. 0	· <u>-</u> ,	·	
Dua Boccoe	5	0.36	.	
Tellusiatinge	0	_	-	
Ponre	5	0.36	-	
Ulaweng	27	0.35	10	
Lamuru	145	0.37	50	
Lappariaja	355	0.37	130	
Libureng	31	0.36	10	
Kahu	0	0	_	
Bonto Cani	0	0	-	
Lalabata	168	0.75	130	
Liliriaja	13	0.73	10	
Marioriawa	146	0.75	110	
Marioriwawo	211	0.75	160	•
Lilirilau	163	0.71	120	
Tempe	31	0.75	20	
Tanasitolo	0	_		
Maniang Pajo	43	0.59	30	
Belawa	37	0.71	30	
Sabbang Paru	1,133	0.78	880	1. A. 1.
Pammana	158	0.78	120	
Takkalalla	8	0,80	10	
Majauleng	17	0.70	10	· .
Sajoanging	0	0	- - -	
Total	2,898	0.66	1,900	

Table 8.5 Unit Yield and Production for Soybeans

Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton
Panca Lautang	30	0.51	20
Tellulimpoe	10	0.49	-
Maritengae	24	0.47	10
Dua Pitue	3	0.59	-
Cenrana	1	0.22	-
Ajangale	20		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Dua Boccoe	15	0.24	
Tellusiatinge	12	0.23	-
Ponre	190	0.25	50
Ulaweng	121	0.23	30
Lamuru	1,544	0.26	400
Lappariaja	2,464	0.26	640
Libureng	560	0.25	140
Kahu	72	0.25	20
Bonto Cani	77	0.26	20
Lalabata	21	0.61	10
Liliriaja	165	0.60	100
Marioriawa	40	0.65	30
Marioriwawo	4,309	0.68	2,930
Lilirilau	73	0.64	50
Tempe	74	0.73	50
Tanasitolo	685	0.59	400
Maniang Pajo	466	0.52	240
Belawa	107	0.70	70
Sabbang Paru	196	0.70	140
Pammana	526	0,68	360
Takkalalla	288	0.58	170
Majauleng	676	0.53	360
Sajoanging	746	0.57	430
Total	13,515	0.49	6,670

Table 8.6 Unit Yield and Production for Green beans

Advaco or	Tab	le	8.	7
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Unit Yield and Production for Cassava

Name of	Harvested	Unit	Total
Kecamatan	Area (ha)	Yield (t/ha)	Production (ton
Panca Lautang	17	4.43	80
Tellulimpoe	46	5,63	260
Maritengae	212	6.27	1,330
Dua Pitue	51	6,05	310
Cenrana	11	2.73	30
Ajangale	135	4,54	610
Dua Boccoe	191	4.10	780
Tellusiatinge	65	4.14	270
Ponre	153	4.64	710
Ulaweng	286	4.37	1,250
Lamuru	324	4.37	1,420
Lappariaja	383	4.73	1,810
Libureng	395	4.79	1,890
Kahu	849	4.64	3,940
BontoCani	15	4.72	70
Lalabata	46	6,53	300
Liliriaja	27	6,88	190
Marioriawa	34	7.54	260
Marioriwawo	41	6.14	250
Lilirilau	20	6.60	130
Tempe	37	8.00	300
Tanasitolo	195	8.57	1,670
Maniang Pajo	332	10.89	3,620
Belawa	61	8.89	540
Sabbang Paru	94	9.78	920
Pammana	163	10.71	1,750
Takkalalla	91	9.68	880
Majauleng	100	27.2	2,720
Sajoanging	222	10.21	2,270
Total	4,596	6,65	30,560

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Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton
Panca Lautang	131	0.87	110
Tellulimpoe	27	0.63	20
Maritengae	250	0.63	160
Dua Pitue	2,104	0.66	1,390
Cenrana	146	1.19	170
Ajangale	222	0.76	170
Dua Boccoe	237	0.87	210
Tellusiatinge	308	0.76	230
Ponre	15	1.30	20
Ulaweng	58	0.76	40
Lamuru	59	0.60	40
Lappariaja	419	0.65	270
Libureng	79	0.57	50
Kahu	421	0.66	280
Bonto Cani	60	2.01	120
Lalabata	46	2.26	110
Liliriaja	171	2.35	400
Marioriawa	195	2.37	460
Marioriwawo	330	2.26	750
Lilirilau	280	2.27	640
Tempe	148	2.77	410
Tanasitolo	308	2.08	640
Maniang Pajo	181	2.78	500
Belawa	805	2.80	2,280
Sabbang Paru	454	6.91	3,140
Pammana	688	1.72	1,180
Takkalalla	105	1.78	190
Majauleng	205	3.13	800
Sajoanging	248	5.16	1,280
Total	8,750	1.82	15,900

Table 8.8 Unit Yield and Production for Coconuts

Table 8.	Э	
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Unit Yield and Production for Kapok

Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton)
Panca Lautang	24	0.23	6
Tellulimpoe	4	0.11	
Maritengae	2	0.20	
Dua Pitue	70	0.28	20
Cenrana	3	0.20	; 1
Ajangale	71	0.17	12
Dua Boccoe	. 3	0.22	1
Tellusiatinge	23	0.17	4
Ponre	6	0.21	1
Ulaweng	77	0.35	27
Lamuru	15	0.39	6
Lappariaja	289	0.30	87
Libureng	9	0.30	3
Kahu	59	0.23	14
Bonto Cani	10	0.20	2
Lalabata	29	0.34	10
Liliriaja	138	0.91	126
Marioriawa	40	0.72	29
Marioriwawo	238	0.67	159
Lilirilau	133	0.84	112
Tempe	25	0.87	22
Fanasitolo	138	0.23	32
Maniang Pajo	141	0.17	24
Belawa	88	0.17	15
Sabbang Paru	294	0.46	135
Pammana	312	0,60	187
Takkalalla	58	0.47	27
Majauleng	100	0.40	40
Sajoanging	214	0.47	101
Total	2,610	0.46	1,200

Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production	(ton)
Panca Lautang	2	0.28	1	
Tellulimpoe		-	-	
Maritengae		-		
Dua Pitue	5	0.30	2	
Cenrana	-	-	- •	
Ajangale	4	0.33	1	
Dua Boccoe	1	0.50	1	
Tellusiatinge		-	, .	
Ponre	1	0.35	-	
Ulaweng	2	0.26	1	
Lamuru	20	0.14	3	
Lappariaja	6	0.18	1	
Libureng	4	0.30	1 [*]	
Kahu	20	1.14	23	
Bonto Cani	33	0,35	12	
Lalabata	3	0,94	3	
Liliriaja		0,69	-	
Marioriawa	12	0.49	6	•
Marioriwawo	40	0.26	10	
Lilirilau	-	1.0	-	
Tempe		_		
Tanasitolo	_	_		
Maniang Pajo	3	0.08	· _	÷
Belawa	 		-	
Sabbang Paru	1	0.5	-1	
Pammana	- -			
Takkalalla		_	_	
Majauleng	2	0.25	- 1	
Sajoanging	1	0.5	1	
Total	160	0.43	70	

Table 8.10 Unit Yield and Production for Coffee

Table 8.11

Unit Yield and Production for Kemiri

Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (to
Panca Lautang	141	0.57	80
Tellulimpoe	32	0.40	13
Maritengae	6	0.33	2
Dua Pitue	242	0.46	112
Cenrana	35	0.37	13
Ajangale	13	2.08	27
Dua Boccoe	28	0.94	26
Tellusiatinge	96	0.33	32
Ponre	95	0.92	87
Ulaweng	35	0,79	28
Lamuru	267	0.95	254
Lappariaja	685	0.46	312
Libureng	78	0.47	37
Kahu	276	0.49	134
Bonto Cani	173	0.39	67
Lalabata	34	2,50	85
Liliriaja	310	1.75	544
Marioriawa	135	1.11	150
Marioriwawo	54	2.01	109
Lilirilau	113	1.17	132
Tempe	· _ ·	-	. - .
Tanasitolo	170	0.04	7
Maniang Pajo	117	0.34	40
Belawa	1	0.50	1
Sabbang Paru	144	0.73	105
Pammana	81	0.92	74
Takkalalla	25	0.42	11
Majauleng	88	0.57	50
Sajoanging	189	1.04	196
Total	3,660	0.74	2,730

Table	8.	12
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Unit Yield and Production for Pepper

Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton)
Panca Lautang			
Tellulimpoe		-	
Maritengae	-		
Dua Pitue	1.1	0.35	0.33
Cenrana	_		
Ajangale	-	~	н салана страна ст
Dua Boccoe	~		_
Tellusiatinge	-	<u> </u>	
Ponre	-	-	-
Ulaweng	2	0.05	0.10
Lamuru	1,25	0.07	0.09
Lappariaja	1.00	0.10	0.10
Libureng	1.00	0.17	0.17
Kahu	2.42	0.34	0.82
Bonto Cani	1.00	0.47	0.47
Lalabata	0.49	0.20	0.10
Liliriaja	_ ·	_	_
Marioriawa	-	-	-
Marioriwawo	0.65	2.23	1.45
Lilirilau	-	· _	
Tempe		· · · ·	-
Tanasitolo	-	_	_
Maniang Pajo		- 	*
Belawa	-	· -	- 11
Sabbang Paru	—	_	· •
Pammana	·	- <u>-</u>	
Takkalalla	_		· •
Majauleng	 		-
Sajoanging	-		
Total	10.8	0,34	3.63

Name of	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton)
Panca Lautang	_		
Tellulimpoe	-	-	-
Maritengae		-	-
Dua Pitue	-	-	_
Cenrana	· -	- .:	-
Ajangale	312	0.26	80
Dua Boccoe	216	0.39	85
Tellusiatinge	164	0,38	62
Ponre	-	-	
Ulaweng	457	0.24	111
Lamuru	291	0.38	112
Lappariaja	255	0.29	75
Libureng	: 4	0.50	2
Kahu	5	0.20	1
Bonto Cani	1	-	-
Lalabata	38	0.03	1
Liliriaja	1,071	0.13	143
Marioriawa	10		-
Marioriwawo	1,876	0.11	207
Lilirilau	4,049	0.11	445
Tempe	26	0.27	7
Tanasitolo	l	-	-
Maniang Pajo	24	0.25	6
Belawa	. –	~	-
Sabbang Paru	500	0.35	175
Pammana	1,377	0.55	755
Takkalalla	_		. <u> </u>
Majauleng	89	0.36	32
Sajoanging	75	0.51	38
Total	10,841	0.22	2,337

Table 8.13 Unit Yield and Production for Tobacco

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Unit Yield and Production for Sugar Cane

		······································	
Name of Kecamatan	Harvested Area (ha)	Unit Yield (t/ha)	Total Production (ton)
Panca Lautang			
Tellulimpoe			
Maritengae	-		_
DuaPitue	5.0	3.96	19.8
Cenrana			-
Ajangale	5.0	3.84	19.2
Dua Boccoe	19,4	2.90	56.2
Tellusiatinge		. –	-
Ponre	4.4	3.43	15.1
Ulaweng	-		-
Lamuru	1.0	0.5	0.5
Lappariaja	8.3	2.31	19.2
Libureng	5,9	2,29	13.5
Kahu	5.4	1.54	8.3
Bonto Cani	1.3	0.62	0.8
Lalabata	_	<u> </u>	-
Liliriaja		-	-
Marioriawa	-		_
Marioriwawo	2.0	8.0	16.0
Lilírílau	-	_	-
Tempe	33	3.23	73.5
Tanasitolo	-	· _ ·	
Maniang Pajo	3	17.4	52.2
Belawa	-		-
Sabbang Paru	625	0.28	174.5
Pammana	75.5	8.75	661.0
Takkalalla		· -	-
Majauleng	5.0	6.14	30.7
Sajoanging	20.0	10.3	205
Total	819.2	1.67	1366

Table	8.15

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Past Trend of Unit Yield for Paddy /6

Name of	E	ntire	area/1	Irrigate	d land	Rainfed	area
Kecamatan		° √2	1R ^{/3}	3	IR	5	IR
P. Lautang	w_4	0.64	0.41	0.78	1.00	0.59	0.18
	D∕5	0,73	0.73	0.60	0.51	0.04	0.02
T. Limpoe	W	0.55	0.26	0.22	0.16	- 0.89 -	0.17
	D	0.73	0.42	0.03	0.25	0.72	0.39
M. Tengae	W	0.92	0.46	0.89	0.37	- 0.73 -	0.12
	D	0.75	0.41	0.83	0.88	0.62	0.26
Dua Pitue	W	0.39	0.19	0.87	0.38	- 0.80 -	0,23
	D	0.69	0.23	0.87	0.89	0.15	0,11
Lalabata	W	0.34	0,20	0.84	0.67	0.89	0.65
	D	0.60	0.34	0.45	0.22	- 0.03 -	0.01
Liliriaja	W	0.30	0.14	0.86	0.67	0.75	0.35
	D	0.65	0.30	0.81	0.36	0.07	0.04
Marioriawa	w -	0.32 -	- 0.21	0.54	0.70	0,70	0.74
	D	0.65	0.29	0,99	0,95	0.96	0.51
Marioriwawo	Ŵ	0.32	0.01	0.80	0,61	0.52	0.20
	D	0.64	0.30	- 0.73 -	0.23	- 0.13 -	0.11
Lilirilau	w -	0.22 -	- 0.08	0,83	0,45	0,66	0.48
	D	0.80	0.38	0.62	0.33	- 0.16 -	0.08
Tempe	w –	0.60 ·	- 0.13				
	D						
Tanasitolo	w -	0.66	- 0.19	÷			
	D -	0.28	- 0.03				
M. Pajo	w -	0,33 -	- 0.12	- 0.41 -	- 0.59	- 0.23 -	0.17
	D				÷	: ·	
Belawa	W	0.15	0.04	0.13	0.07	- 0.11 -	0.07
	D.	0.18	0.02			0.63	0.29
S. Paru	W -	0.35	- 0.06			0.74	1. ¹
	Ď.	0.37	0.06			0.31	
Pammana	W	0:52 -	- 0.81	- 0.52 -	- 0.79	0,27	0.22
•	D		· ·		•		
Takkalalla	W -	0.72 -	- 0.02	- 0.34 -	- 0,57	0.36	0.20
	D	0.93	0.29				

- to be continued -

Name of	. 1	Entire	area	Irrigate	d land	Rainfed	area
Kecamatan	Y IR Y IR	IR	8	IR			
Majauleng	W -	0.16	- 0.04	- 0.93 -	0.42	0.29	0,10
	D			. *			
Sajoanging	W	0.46	- 0.08	- 0.95 -	0.58	0.67	0.41
	D	ı			•		

Remarks:

- /1 : Total area is composed of irrigated land and rainfed (paddy) area.
- /2 : Coefficient of corelation
- /3 : annual increasing ratio of unit yield of paddy which described as ton/ha/year
- /4 : wet season paddy
- /5 : dry season paddy
- <u>/6</u>: Past trend of unit yield (IR) is computed by least square line method on the basis of the data from 1966 to 1977 for the entire area and from 1974 to 1977 for irrigated and rainfed area. Computation for Kabupaten Bone is not made due to shortage of data available at kecamatan level.

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Table 8.16(1)

Past trend of Unit Yield for Upland Crops (1) 1

Name of	Ma	ize	Cas	sava	Sweet	Potato
Kecamatan	<u>~~~/2</u>	1R ^{/3}	8	IR	7	IR
P. Lautang	0.68	0.05	0.44	0.42	*	
T. Limpoe	- 0.78	- 0.03 -	0.02 -	0.01	0.12	0.09
M. Tengae	- 0.67	- 0.04 -	0.53	0.04	- 0.30	- 0.20
Dua Pitue	- 0.56	- 0.04	0.64	0.06	. *	· : 1
Lalabata	- 0,36	- 0.02 -	0.94 -	0.40	- 0.62	- 0.18
Liliriaja	- 0,18	- 0.01 -	0.46 -	0.19	- 0.20	0.0
Marioriawa	- 0,54	- 0.01 -	0.87 -	0,61	- 0.64	- 0.02
Marioriwawo	- 0.82	- 0.07 -	0.89 -	0.41	*	3
Lilirilau	- 0,86	- 0.03 -	0.88 -	0.52	- 0.17	- 0.03
Tempe	- 0.11	- 0.01 -	0.67 -	0.68	- 0.47	- 0.20
Tanasitolo	- 0.45	- 0.05 -	0.25 -	0.23	- 0,29	- 0.18
М. Рајо	- 0.53	- 0.10	0.36	0.56	0.13	0.09
Belawa	- 0.67	- 0.05 -	0.38 -	0,36	- 0,41	- 0.17
S. Paru	- 0.65	- 0.04 -	0.17 -	0.14	0.30	0.18
Pammana	- 0.36	- 0.04 -	0.14 -	0.13	0.11	0.07
Takkalalla	- 0.27	0.03 -	0.20 -	0.20	- 0.39	- 0.21
Majauleng	- 0.46	- 0.03 -	0.57 -	0.77	- 0.46	- 0,38
Sajoanging	0.62	- 0.05	0.27	0.12	0.45	0.24

<u>/1</u>: Past trent of unit yield is estimated on the basis of least squares line method for the data from 1970 to 1977.

 $\frac{1}{2}$: Coefficient of corelation

/3 : annual increasing ratio (ton/ha/year)

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Fable 8.16()	

Past Trend of Unit Yield for Upland Crops (2) $\frac{1}{2}$

· · ·				
Name of	Peanuts	Soybeans	Green	beans
Kecamatan	$\gamma^{/2}$ IR ^{/3}	γ ir	8	IR
P. Lautang	* *	- 0.79 - 0.08	*	*
T. Limpoe	- 0.99 - 0.1	* *	0.94	0.08
M. Tengae	- 0.82 - 0.17	* *	*	*
Dua Pitue	- 0.65 - 0.19	* *	*	*
Lalabata	- 0.55 - 0.01	0.18 0.01	- 0.69	- 0.02
Liliriaja	- 0.35 - 0.03	- 0.4 - 0.01	- 0,22	- 0.05
Marioriawa	- 0.64 - 0.02	0.16 0.004	0.61	0.01
Marioriwawo	0.43 - 0.07	- 0.44 - 0.03	- 0.62	- 0.13
Lilirilau	- 0.71 - 0.13	- 0.09 - 0.01	0.44	0.03
Tempe	- 0.37 - 0.03	0.45 0.01	0.83	0.03
Tanasitolo	- 0.57 - 0.03	* *	- 0.43	- 0.03
M. Pajo	- 0.47 - 0.03	* *	0.46	- 0.05
Belawa	- 0.26 0.02	- 0.03 - 0.002	*	*
S. Paru	0.31 0.01	0.58 0.01	0.29	0.01
Pammana	0.92 0.02	0.84 0.04	0.14	0.01
Takkalalla	0.45 0.001	* *	- 0.34	- 0.01
Majauleng	0.31 0.01	* *	- 0.48	- 0.02
Sajoanging	0.12 0.001	* *	- 0.42	- 0.02
	· .		·.	

- <u>/l</u>: Past trent of unit yield is estimated on the basis of least square line method for the data from 1970 to 1977.
- $\underline{/2}$: Coefficient of corelation
- /3 : annual increasing ratio (ton/ha/year)

Table 8.16(3)

3) Past Trend of Unit Yield for Upland Crops $(3)^{\perp 1}$

Name of	Tard lo	ong bean		 	· · · · · · · · · · · · · · · · · · ·
Kecamatan	γ <u>/</u> 2	IR $\frac{73}{3}$			
P. Lautang	*	*			
T. Limpoe	*	*			
M. Tengae	*	*			
Dua Pitue	*	*			
Lalabata	- 0.50	- 0.03	· .		
Liliriaja	- 0.81	- 0.02	· ·		
Marioriawa	*	*	•		
Marioriwawo	0.55	0.03			
Lilirilau	- 0.37	- 0.01			
Tempe	0.69	0.02			
Tanasitolo	- 0.29	- 0.03			
M. Pajo	- 0.98	~ 0.05			· .
Belawa	*	*			
S. Paru	*	*			
Pammana	- 0.10	~ 0.01	÷		
Takkalalla	*	*	· ·		
Majauleng	- 0.51	- 0.02			
Sajoanging	0.97	0.04	-		
					· :

- /1: Past trent of unit yield is estimated on the basis of least square line method for the data from 1970 to 1977.
- $\underline{/2}$: Coefficient of corelation
- /3 : annual increasing ratio (ton/ha/year)

 Table 9.1
 Number of Livestock in 4 Kabupatens 1974 - 1976

			Kind c	Kind of cattle			
Kecamatan year	Horse	Cattle	Buffallow	Goat	Sheep	Chicken	Ducks
Sidrap 1974	6,684	23,384	13,847	8,363	. 1	280,548	I ·
75	7,413	27,905	14,929	8,750	1	322,068	40,174
76	8,710	31,321	16,398	10,811	1	483,102	149,454
Bone 1974	22,774	97,947	38,036	10,666	160	1,001,440	33,207
75	24,595	108,808	38,369	13,555	198	11,602,820	66,414
76	26,415	121,847	18,458	15,719	244	2,404,230	31,455
Soppeng 1974	7,927	37,525	1,747	6,600	34	196,729	69,818
75	8,515	41,721	1,839	8,382	42	393,458	99,636
76	9,121	44,355	2,311	10,259	51	590,187	298,864
Wajo 1974	22,781	33,251	45,720	78,709	1,085	654,032	148,627
1975	23,603	37,803	49,839	22,039	1,320	954,632	199,244
1976	24,317	41,187	53,004	27,187	2,497	1,431,948	99,621

		÷ .	(1977/78	3)	• .	
Kind	·	Sidrap	Bone	Soppeng	Wajo	Total
Timber	(m ³)	703,993	540,749	123	17,417	1,262,282
Rottan	(kg)	801,420	2,517	2,230	142	806,309
Charcoal	(kg)	- .	-	6,223	-	6,223
Kemiri	(kg)	1,610	16,730	18,538	-	36,878
Arenga palm	(1)		- : '	203,165	-	203,165
Bamboo	(piece)) -	20,770	1,375	-	22,145
Nipa	(sheet)	-	Break.	2,800		2,800
Fan-palm	(sheet)) – –		6,140	-	6,140
Pengiun	(piece)) -	· _	12,000	-	12,000
Baruk	(kg)	24		10		34
Fire-wood	(band)	166	1,723	. -	-	1,889
Palm-Sugar	(kg)	100	3,050		-	3,150

Table 9.2 Production of Forest Material

Size of	Total Are	Na %	Whole area ow	med by bolder	r Partially own	ned by hold
Holding	10001 1110		Area	* *	Area	%
	h	ia	ha		ha	
0.5	46,109	6.25	29,573	7.0	12,203	4.2
0.5 - 1.0	122,424	16.60	70,213	16.6	44,852	15.5
1.0 - 2.0	245,818	33.33	139,223	33.0	98,573	34.0
2.0 - 3.0	139,921	18.97	79,130	18.7	57,897	20.0
3.0 - 4.0	65,653	8.90	37,785	8.9	27,030	9.3
4.0 - 5.0	40,428	5.48	23,007	5.4	17,421	6.0
5.0	77,102	10.46	43,488	10.3	32,120	11.1
Fotal	737,455	100.00	422,419	100.0	290,096	100.00

Table 10.1 Farm Land Area by Size of Holding in South Sulawesi

Source : Agricultural Census, 1973

Table 10.2

Proportion of Number of Farmers by Tenure and Size of Holding in South Sulawesi

Size of	Owner	Owner Cultiv	ator	
Holding	Cultivator	cum Tenant	Tenant	Total Farmers
0.5	18.51	6.63	2.96	27.83
0.5 - 1.0	16.25	9,85	1.78	27,77
1.0 - 2.0	16,63	11.23	1.00	28.85
2.0 - 3.0	5.38	3,86	0.20	9.44
3.0	3.52	2.42	0.07	6.00
Total	60.27	33.99	5.73	100.00

·	••					i in	olding
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				Farm		je land h	
	Paddy	Upland	Total	Household	÷	irm house	
	(ha)	(ha)	(ha)		Paddy	· 〒	Total
			·····	······	(ha)	(ha)	(ha)
Kab. Sidrap							
PancaLautang	5,080	1,240	6,320	2,902	1.75	0.43	2.18
TelluLimpoE	2,670	140	2,810	2,518	1.06	0.06	1.12
MariTengaE	11,930	220	12,150	6,011	1.98	0.04	2.02
DuaPituE	12,420	3,320	15,740	7,743	1.60	0.43	2.03
Sub-total	32,100	4,920	37,020	19,174	1.67	0.26	1.93
Kab. Bone				· · ·			
Cenrana	5,080	940	6 020	3,145	1,62	0.30	1.92
Ajangale	4,750	1,060	5,810	6,366	0.75	0.17	0.92
Dua BoccoE	3,060	1,000	4,080	5,366	0.57	0.19	0.76
TellSiatenge	4,990	590	5,580	5,810	0.86	0.10	0,96
Ponre	1,890	700	2,590	1,972	0.96	0.35	1.31
	•		4,930	6,444	0.14	0.62	0.76
Ulaweng	920	4,010		4,881		0.97	1.28
Lamur	1,530	4,740	6,270		0.31 0.93		1.28
Lappariaja	5,400	4,270	9,670	5,786		0.74	
Libureng	5,300	1,600	6,900	2,648	2.00	0.60	2,60
Kahu	7,310	720	8,030	3,371	2.17	0.21	2.38
BontoCani	1,600	840	2,440	1,610	0.99	0.52	1.51
Sub-total	41,830	20,490	62,320	47,399	0,88	0.43	1.31
Kab. Soppeng		·		· · · · ·			-
Lalabata	6,780	5,050	11,830	8,694	0.78	0.58	1.36
Liliriaja	6,640	5,050	11,690	6,975	0.95	0.73	1.68
Marioriawa	4,150	2,880	7,030	4,648	0.89	0,62	1.51
Marioriawo	1,750	6,100	7,850	6,207	0.28	0,98	1.26
Lili-Rilau	2,920	11,070	13,990	7,247	0,40	1.53	1.93
Sub-total	22,230	30,150	52,390	33,771	0.66	0.89	1.55
Kab. Wajo							
Tempe	200	2,070	2,350	5,029	0.06	0.41	0.47
	280		2,350 6,380	4,166	0.96	0.57	1.53
TanaSitolo	4,020	2,360				1.21	4.12
Maniang Pajo	7,000	2,900	9,900	2,405	2.91		
Belawa	4,610	5,960	10,570	4,467	1.03	1.33	2.36
SabangParu	2,510	6,110	8,620	4,714	0.53	1.30	1.83
Pamana	5,800	3,090	8,890	4,474	1.30	0.69	1.99
Takkalalla	12,920	2,470	15,390	5,788	2.23	0.43	2.66
Majauleng	10,350	2,570	12,920	5,077	2.04	0.50	2.54
Sajoanging	15,790	2,630	18,420	4,394	3.59	0,60	4.19
Sub-total	63,280	30,160	93,420	40,514	1.56	0.74	2.30
Grand Total	159,450	85,720	245,170	140,858	1.13	0,61	1.74

Table 10.3 Average Land Holding per Farm Household

By kecamatan in the Objective Area

Source : Agricultural Extension Service Offices of Sidrap, Bone, Soppeng and Wajo Kabupatens.

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Table 11.1 Development of Agricultural Support System in South Sulawesi

	1974	1975	1976	1977	1978	1979
South Sulawesi Province						
Village Unit (Wilud)	262	286	332	332	620	620
Village Unit Cooperative (BUUD/KUD)	295	315	325	336	345	345
Village Unit BRI	115	123	175	210	210	210
Kiosk	306	376	435	583	508	508
Rural Extention Center (BPP)		-		-	-	-
Field Extention Worker (PPL)	200	260	280	368	574	574
Extention Supervisor (PPM)	-	~	. –	144	144	144
Subject-matter Specialist (PPS)	19	21	15	17	26	29
he Objective Area						
Village Unit	64	65	108	137	189	190
BUUD/KUD	80	85	87	89	90	90
Village Unit BRI	35	35	51	59	59	59
Kiosk	62	69	69	72	76	86
Rural Extention Center (BPP)	-		-	14	15	15
PPL	65	77	100	138	181	181
ррм		- .	-	26	29	29
PPS	4	4	5	5	4	4

Source:

Agricultural Extension Service, South Sulawesi Co-operative Offices of 4 Kabupatens.

BRI Kabupaten Offices.

	· · ·	· · · · · · · · · · · · · · · · · · ·			
(Objective Area	Kab.Sidrap	Kab.Wajo	Kab.Soppenc	Kab.Bone
Farm Household (No	140,858	19,174	40,514	33,771	47,399
Paddy field (ha)	156,580	32,100	60,940	21,700	41,840
Irrigated (ha)	36,570	20,510	2,610	9,930	3,520
Rainfed (ha)	120,010	11,590	58,330	11,770	38,320
Upland (ha)	103,020	4,820	32,480	30,830	34,890
No. of Kec.	29	4	9	5	11
No. of Village	203	19	45	26	113
No. of Village Uni		52	58	30	50
BUUD/KUD (No)	90	24	26	13	27
KIOSK (No)	86	25	11	33	17
PPL (No)	181	56	42	28	55
BRI (No)	59	23	10	13	13
Per Wilud					:
Paddy field (ha)	741	617	1,051	723	837
Irrigated P.F. (ha) 192	394	45	331	70
Upland (ha)	542	88	560	1,027	698
Farm Household (No) 741	369	699	1,126	948
BUUD/KUD (No)	0.47	0.46	0.45	0.43	0.54
KIOSK (No)	0.45	0.48	0.19	1.1	0.34
PPL (No)	0.95	1.08	0.72	0,93	1.1
BRI (No)	0.31	0.44	0.17	0.43	0.26

Table 11,2 Average Size and Function of the Village Unit in the Objective Area

Note: Kec. - Kecamatan (Sub-District)

BUUD/KUD = Village Unit Co-operative

PPL = Field Extension Worker

BRI = Indonesia People's Bank

***************************************		Wet Sea	son Pade	dy (ha)		D	ry Seas	on Pade	ly (ha)	
an de la compañía de	Total	BIMAS	INMAS	B + I	8	Total	BIMAS	INMAS	B + I	8
Kab. Sidrap			· · · · · · · · · · · · · · · · · · ·				······································			
PancaLautan	g 3,153	655	1,333	1,988	32 3	1,067	441	,150,	591	55.4
TelluLimpoE	1,264	484	692	1,176		1,000	329	382		71.1
MariTengaE	7,774	3,252	3,368	6,620			4,047	2,270	6,317	
Dua PituE	10,972		2,509	3,887		3,788	640	2,770	3,410	
Sub-total	23,163			13,671				-	11,029	
			.,	,			•	•		
Kab. Bone										
Cenrana	3,639	0	0	0	0	-75	0	0	0	0
Ajangale	3,856		12	12	0.3	10	0	0	0	. 0
DuaBoccoe	1,759		57	216	12.3	151	47	16	63	41.7
TellSiatten		13	10	23	0.7	348	12	88	100	28.7
Ponre	1,457	0	0	0	. 0	46	0	0	0	0
Ulawang	660	0	3	3	0.5	71	0	0	0	0
Lamuru	1,270	92	25	117	9.2	425	130	10	140	32.9
Lappariaja	4,708	225	590	815	17.3	614	107	244	351	57.2
Libureng	2,906	· · 0	0	0	0	44	0	0	0	Ó
Kahu	2,261	0	40	40	1.8	194	43	19	62	32.0
BontoCani	1,573	50	Ò	50	3.2	150	96	37	133	88.7
Sub-total	27,299	53 9	737	1,276	4.7	2,128	435	414	849	39 . 9
Kab. Soppen	a									
Lalabata	5,906	2,831	1,057	3,888	65.8	5,271	1,735	716	2,451	46.5
Liliriaja	5,692	3,074	1,273	4,347	76.4	5,642	1,823	601	2,424	41.6
Marioriawa	2,047	836	270	1,106	54.0	1,345	443	208	651	48.4
Marioriawo	1,564	725	319	1,044	66.8	1,126	380	88	468	41.6
Lili-Rilau	2,213	195	98	293	13.2	253	129	9	138	54.6
Sub-total	17,422	7,661	3,017	10,678	33.4	13,637	4,510	1,622	6,132	45.0
Kab. Wajo										
Tempe	149	0	0	0	0	0	0	0	0	0
TanaSitolo	1,538	200	0	200	13.0	- 38	0	· . 0	0	0
ManiangPajo	2,757	1,017	142	1,159	42.0	11	0	0	. 0	0
Belawa	2,941	1,442	212	1,654	56.2	750	0	0	0	0
SabangParu	1,365	40	0	40	2.9	65	0	0	0	0
Pamana	2,131	496	.26	522	24.5	0	0	0	0	0
Takkalalla	9,848	1,544	0	1,544	15,7	18	0	0	0	0
Majauleng		1,410	0	1,410		4	0	0	: 0	0
Sajoanging	10,800	2,763	66	2,829	26.2	0	0	0	0	0
Sub-total	36,957	8,912	446			886	0	• 0	0	0
Grand Total	104,841	22,881	12,102	34,983	33.4	29,584	10,402	7,608	18,010	60.9

Table 11.3 BIMAS and INMAS Area by Kecamatan (Average of 1974-'78)

Note : Area is harvested area.

% is BIMAS + INMAS by total area.

			· · · · · · · · · · · · · · · · · · ·			· · · · · ·		
	·		1974	1975	1976	1977	1978	1979
The Objective area		÷ .					an an Ar An Ar	. :
Rural Extension Center		•	-	-	_	14	14	14
Subject-matter Specialist			4	4	5	5	4	4
Extension Supervisor			- :	-	-	36	39	39
Field Extension Worker			65	77	100	138	181	181
Kab. Sidrap			,					
Rural Extension Center			-		-	3	3	3
Subject-matter Specialist			1	1	1	1	1	1
Extension Supervisor			-	· _		10	10	10
Field Extension Worker	•		20	20	37	47	56	56
ab. Bone								
Rural Extension Center			-		-	4	4	4
Subject-matter Specialist			1	1	1	1	1	1
Extension Supervisor			-	-	-	11	11	11
Field Extension Worker			21	27	32	46	55	55
ab. Soppeng							at a se	•••
Rural Extension Center	· .			·		3	3	3
Subject-matter Specialist			ĺ	1	2	2	1	1
Extension Supervisor			<u></u>	-	-	5	8	8
Field Extension Worker			14	14	16	29	28	28
ab. Wajo	Č. Š			÷ .	2			•
Rural Extension Center					_	4	4	4
Subject-matter Specialist			1 :	1	1	1	1	1
Extension Supervisor			-	.	-	10	10	10
Field Extension Worker				16	15	16	42	42

Table 11.4 Development of Agricultural Extension Service

Source : Agricultural Extension Service of each 4 Kabupatens.

			1		
Table	11 C	Floor Store which was			
rabre	TTOD	Production	or Paddy	seea n	i South

Sulawesi

	1	977	1978		
	Planted Area	Production	Planted Area	Production	
	(ha)	(ton)	(ha)	(ton)	
South Sulawasi					
Seed Center	20	54	19	71	
Seed Station	164	378	180	480	
Seed Grower	203	374	294	523	
Total	387	806	493	1,074	
The Objective Area					
Seed Station	62	106	61	110	
Seed Grower	54	98	62	124	
Total	116	204	123	234	

Source : Agricultural Extension Service of South Sulawesi

Privincial Seed Center, Maros.

	Urea (kg)	TSP (kg		Kc1/ K2o (kg)	Insec- ticide (1)		Seed	Spray er	Other expense	Total
·										
Paddy in w	et fiel	d (usi	ng TSP)						
Package Amount	A 200	50	-	30	2	100	-	-		
Value Rp	14,000	3,500	-	2,100	2,460	230	3,750	2,000	10,000	38,040
Package Amount	в 100	35	-	30	2	100	-	-		•
Value Rp	7,000	2,450		2,100	2,460	230	- .	2,000	10,000	26,240
Package Amount	C 250	75		30	2	100	-	-	-	-
	17,500	5,250	-	2,100	2,460	230	3,750	2,000	10,000	43,290
Paddy in w	et fiel	d (usi	ng DAP))						
Package A Amount	180.5	-	50	30	-	100	-	- ⁻ .	-	-
Value Rp	12,635	4	1,500	2,100	6,000	230	3,750	1,000	10,000	40,215
Package B Amount	86.3	-	35	: 30.		100	-	-	. · . - .	—
Value Rp	6,041		3,150	2,100	6,000	230		1,000	10,000	28,521
Package (Amount Value	C 220	-	75	30	-	100		-	-	-
	15,400	- 6	,750	2,100	6,000	230	3,750	1,000	10,000	45,230
addy in w	et field	l (Usir	ng inse	cticid	le Sebaç	jian Gi	canula)			
Package i Amount	A 200	50	-	30	-	100		-	-	- .
Value Rp :	14,000	3,500	· _	2,100	6,000	230	-	1,000	10,000	40,580
Package I Amount	3 100	35		30		100		-		
Value Rp	7,000	2,450		2,100	6,000	230	-	1,000	10,000	28,780
Package (Amount	250	75	•••• • • •	30	•••	100		~	 	 .
Value Rp 1	L7,500	5,250	**	2,100	6,000	230	3,750	1,000	10,000	43,830

Table 11.6 Paddy BIMAS Package Credit per Ha (1978/'79)

		Urea (kg)	TSP (kg)	Insecticide (1)	Pesticide (g)	Total
linimum	Amount:	50	12.5	1.	50	-
: + ¹	Value Rp	3,500	875	1,230	115	5,720
laximum	Amount	100	25	2	100	_
	Value Rp	7,000	1,750	2,460	230	11,440

Table 11.7 INMAS Package Credit per Ha (1978/'79)

Table 11.8 Upland Crops Package Credit per Ha 1978/'79

· · · · · · · · · · · · · · · · · · ·			<u></u>				
	Urea	TSP	Pesti cide	Seed	Sprayer	Other Expense	Total
	(kg)	(kg)	(kg)	(kg)			
Maize Amount	250	100	0.5	25	-	- .	-
Value Rp	17,500	7,000	615	2,385	. 	4,000	31,500
Soy bean Amount	75	100	4	50	_	-	-
Value Rp	5,250	7,000	4,980	12,330	2,000	4,000	35,500
Peanut Amount	100	100	2	100	-		
Value Rp	7,000	7,000	2,460	29,040	1,000	4,000	50,500
Green Amount kidney bean	50	50	2	25	-	_ `	
Value	3,500	3,500	2,460	7,040	1,000	4,000	21,500
Sorghum Amount	150	100	1	15		-	-
Value Rp	10,500	7,000	1,230	1,270	500	4,000	24,500
Cassava Amount	200	75	0,5		. –	 -	-
Value Rp	14,000	5,250	1,150	5,100	-	4,000	29,500
Sweet Amount potato	150	50			- .	-	
Value	10,500	3,500	- *	4,500	-	4,000	22,500

Source : PROGRAM PENINGKATAN PRODUKSI PADI & POLOWIJO (BIMAS - INMAS) 1978/'79 PROPINSI DAERAH TINGKAT I SULAWESI SELATAN

Table 11.9

Paddy BIMAS Credit in South Sulawesi

		Loan Amount (1,000 Rp.)		Outstanding (1,000 Rp.)	Proportion of outstanding(%
1970	1971	180,538	124,877	55,661	30.83
	1971	54,955	40,961	13,994	25.46
1971	1972	94,319	67,698	26,621	28,22
	1972	89,228	68,652	20,576	23.06
1972	1973	709,476	542,190	167,286	60.14
	1973	187,258	136,152	51,106	27.29
1973	1974	789,119	495,018	294,100	37.27
	1974	446,463	250,477	195,986	43.90
1974	1975	753,149	483,424	269,725	35.81
	1975	496,470	297,434	199,036	40.09
1975	1976	911,670	546,200	365,470	40.08
	1976	964,348	470,259	494,089	51,23
1976	1977	1,110,932	585,664	525,268	47.28
	19 77	1,051,448	440,549	610,899	58.10
1977	1978	1,184,240	448,517	735,723	62,12
	1978	1,020,783	245,983	774,800	75.90
1978	1979	1,310,241	362	1,309,879	99.97

Source : BANK RAKYAT INDONESIA, UJUNG PANDANG REGIONAL OFFICE JAN. 1979.

Table 11.10

Paddy BIMAS Credit in Kabupaten Sidrap

	No. of Render	Loan Amount (1,000Rp.)	Repayment (1,000Rp.)	Outstanding Amount (1,000Rp.)	Proportion of Outst. (%)
1970 1971	NA /1	23,262	16,616	6,646	28.57
1971	NA	7,018	5,810	1,208	17.21
1971 1972	NA	5,353	3,542	1,811	83,83
1972	1,524	19,484	15,189	4,295	22,06
1972 1973	7,101	93,561	70,797	22,764	24.33
1973	3,652	41,026	27,606	13,420	32.71
1973 1974	1,980	51,615	28,756	22,859	44.28
1974	2,471	47,583	30,677	16,906	35.52
1974 1975	2,851	53,383	53,152	231	0.43
1975	5,245	96,738	78,353	18,385	19.00
1975 1976	4,483	118,082	105,108	12,973	10,98
1976	6,955	188,178	156,774	31,404	16.61
1976 1977	5,980	168,972	146,192	22,780	13.48
1977	7,708	230,727	174,493	56,234	24.37
L977 1978	5,196	155,551	112,937	42,614	27,39
1978	8,558	279,702	140,485	139,217	49.77
1978 1979	7,211	274,138	27,998	246,139	89.79

Source : BANK RAKYAT INDONESIA, SIDRAP BRANCH OFFICE, May, 1979.

/1 : NA = not available.

Table 11.11

Paddy BIMAS Credit in Kabupaten Bone

,		No. of Render	Loan Amount (1,000Rp.)	Repayment (1,000Rp.)	Outstanding Amount (1,000Rp.)	Proportion (%)
1970	1971	NA /1	10,669	10,669	0	0
	1971	NA	1,056	1,056	0	0
1971	1972	NA	2,154	2,154	0	0
	1972	92	14,762	14,419	343	2,32
1972	1973	112	34,689	34,233	456	1.31
	1973	593	27,497	22,887	4,610	16.76
1973	1974	466	36,478	34,014	2,464	6.75
	1974	88	2,684	2,251	433	16.09
1974	1975	697	28,341	18,518	9,823	34.64
	1975	951	32,994	20,309	12,685	38.45
1975	1976	806	31,384	12,155	19,229	61.27
	1976	989	25,377	9,098	16,279	64:14
1976	1977	1,386	40,701	21,735	18,966	46.59
	1977	1,002	16,970	7,137	9,653	57.49
1977	1978	981	17,520	5,828	11,692	66,73
	1978	1,476	22,895	2,434	20,461	89.36
1978	1979	537	6,907	54	6,853	99.22

Source : BANK RAKYAT INDONESIA, WATANPONE BRANCH OFFICE,

MAY, 1979

/1 : NA = not available

-		- <i>4 - k - i - i - i - i - i - i - i</i>	No. of Render	Loan Amount (1,000Rp.)	Répayment (1,000Rp.)	Outstanding (1,000Rp.)	Proportion (%)
•	1970	1971	NA /1	15,293	15,293	0	0
		1971	NA	NA	NA	NA	· · ·
	1971	1972	NA	5,300	5,300	0	0
		1972	1,598	16,371	16,308	63	.0,38
	1972	1973	5,802	62,880	62,354	526	0.83
		1973	1,085	7,625	7,305	320	4.19
	1973	1974	3,359	46,560	44,340	2,220	4.77
		1974	5,005	96,222	83,462	12,760	13.26
	1974	1975	2,386	52,113	46,449	5,664	10.86
		1975	3,911	82,710	69,163	13,547	16.37
	1975	1976	2,471	61,210	56,851	4,359	7.12
		1976	3,106	81,462	65,843	15,619	19.17
	1976	1977	2,063	51,358	48,921	2,437	4.74
		1977	3,366	78,874	63,741	15,133	19.18
	1977	1978	1,884	39,089	38,225	864	2.21
		1978	4,230	109,407	70,578	38,829	35.49
	1978	1979	4,380	133,591	173	133,418	99.89
			the second se			and the second	

Table 11.12 Paddy BIMAS Credit in Kabupaten Soppeng

Source : BRI Branch office in Soppeng Kabupaten

<u>/</u>1

: NA = not available

		No. of Render	Loan Amount (1,000Rp.)	Repayment (1,000Rp.)	· ·	
1970	1971	NA 1	5,199	3,847	1,352	26.01
	1971	-	-	-	-	-
1971	1972		-	-	-	-
	1972	NA	7,833	7,833	0	0
1972	1973	NA	31,632	29,568	2,064	6.52
	1973	NA	30,488	30,488	• 0	0
1973	1974	200	15,578	1,408	14,170	90.97
	1974	8,998	156,498	66,418	90,079	57.55
1974	1975	· • 0	0	0	0	
	1975	2,293	104,969	57,093	47,876	45.61
1975	1976	0	0	0	0	• •
	1976	2,599	297,798	130,690	167,108	56.11
1976	1977	0	0	0	0	
	1977	2,470	370,541	92,588	277,953	75.01
1977	1978	0	0	0	0	
	1978	1,159	87,568	8,628	78,940	90.14
1978	1979	0	0	0	0	

Table 11.13 Paddy BIMAS Credit in Kabupaten Wajo

Source : BRI Branch Office in Kabupaten Wajo

/l : NA = not available

	· · · · ·			· · .				
Kabupaten	<u>.</u>	1973	1974	1975	1976	1977	1978	1979
Sidrap		-						
	BUUD	15	9	3	3	0	0	0
	KUD	4	10	21	21	24	24	24
Bone					-		• •	
	BUUD	0	0	0	0	0	0	0
	KUD	25	25	25	26	27	27	27
Soppeng								
ooppeng	BUUD	11	11	0	0	1	1	1
	KUD	0	0	11	12	12	12	12
Wajo								
<u></u>	BUUD	22	21	9	· 1	0	1	1
۰.	KUD	0	4	16	24	25	25	25
Total	BUUD	48	41	12	4	1	2	2
	KUD	29	39	73	83	88	88	88

Table 11.14 Development of BUUD/KUD in 4 Kabupatens of the Objective Area

Source : Each Co-operative Office in 4 Kabupatens.

	Sidrap	Bone	Soppeng	Wajo	Total	-
No. of BUUD			· 1	1	2	-
members	~~		1,066	48	1,114	
candidates		<u> </u>	+		. 	
No. of KUD	24	27	12	25	88	
members	4,221	1,598	1,872	3,906	11,597	
candidates	8,882	6,062	3,137	1,200	19,281	
BUUD/KUD	24	27	13	26	90	
members	4,221	1,598	2,938	3,954	12,711	
candidates	8,882	6,062	3,137	1,200	19,281	
Total (A)	13,103	7,660	6,075	5,154	31,992	
:				- -		
No. of Total Farm Household (B)	30,740	80,880	33,590	44,990	190,200	
% of (A)/(B)	42.6	9.5	18.1	11.5	16.8	

Table 11.15 Number of BUUD/KUD and members

in 4 Kabupatens in 1978

Source: Each Co-operative Office in 4 Kabupatens

	Sidrap	Bone	Soppeng	Wajo	Total	South Sulawesi
Rice Mill	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Large Rice Mill	12	1	4	3	20	36
Rice Mill Unit	199	30	22	159	410	745
Small Rice Mill	234	19	5	4	262	388
Engerberg type	142	810	829	764	2,545	4,874
Total	587	860	860	930	3,237	6,012
Total Capacity (t/hu)	201	125	147	137	610	1,105
Warehouse	23	13	9	22	67	185
Trayser	. –	3	· .	10	13	25
Moisture tester	22	10	12	27	71	214
Mist blower	-	-		1	1	5
Dryer	-	_	-	. 1	1	2

Number of Equipment owned by BUUD/KUD Table 11.16 in 4 Kabupatens of the Objective Area (1978)

Source : Each Co-operative Office in 4 Kabupatens Provincial Agricultural Extension Service, South Sulawesi.

:				· .	
	1976/1977	1977/1978	1978/1979	Total	
Number of P3A	10	7	15	32	
Command irrigated area	3,843	2,500	6,019	12,362	

Table 11.17Development of Water User's Association (P3A)in South Sulawesi

Table 11.18

Number and member of Water User's Association (P3A) in 4 Kabupatens of the Objective Area (1979)

Sidrap	Bone	Soppeng	Wajo	Total
2	4	1	0	7
1,435	1,571	530	0	3,536
530	1,624	285	0	2,439
	2	2 4 1,435 1,571	2 4 1 1,435 1,571 530	2 4 1 0 1,435 1,571 530 0

Source : Agricultural Extension Service Offices in 4 Kabupatens.