

THE MINISTRY
OF AGRICULTURE
INDONESIA

JAPAN INTERNATIONAL
COOPERATION AGENCY,
JICA

**SOUTH SULAWESI
REGIONAL AGRICULTURAL DEVELOPMENT
PLANNING / ATA - 140 PROJECT**

**FINAL REPORT ON PHASE I
VOLUME III**

**DATA OF THE AGRICULTURE
IN SOUTH SULAWESI PROVINCE
(REFERENCE DATA FOR VOL. II)**

February - 1979

**THE TEAM OF THE PROJECT ON SOUTH SULAWESI RADP/ATA-140
IN UJUNG PANDANG**

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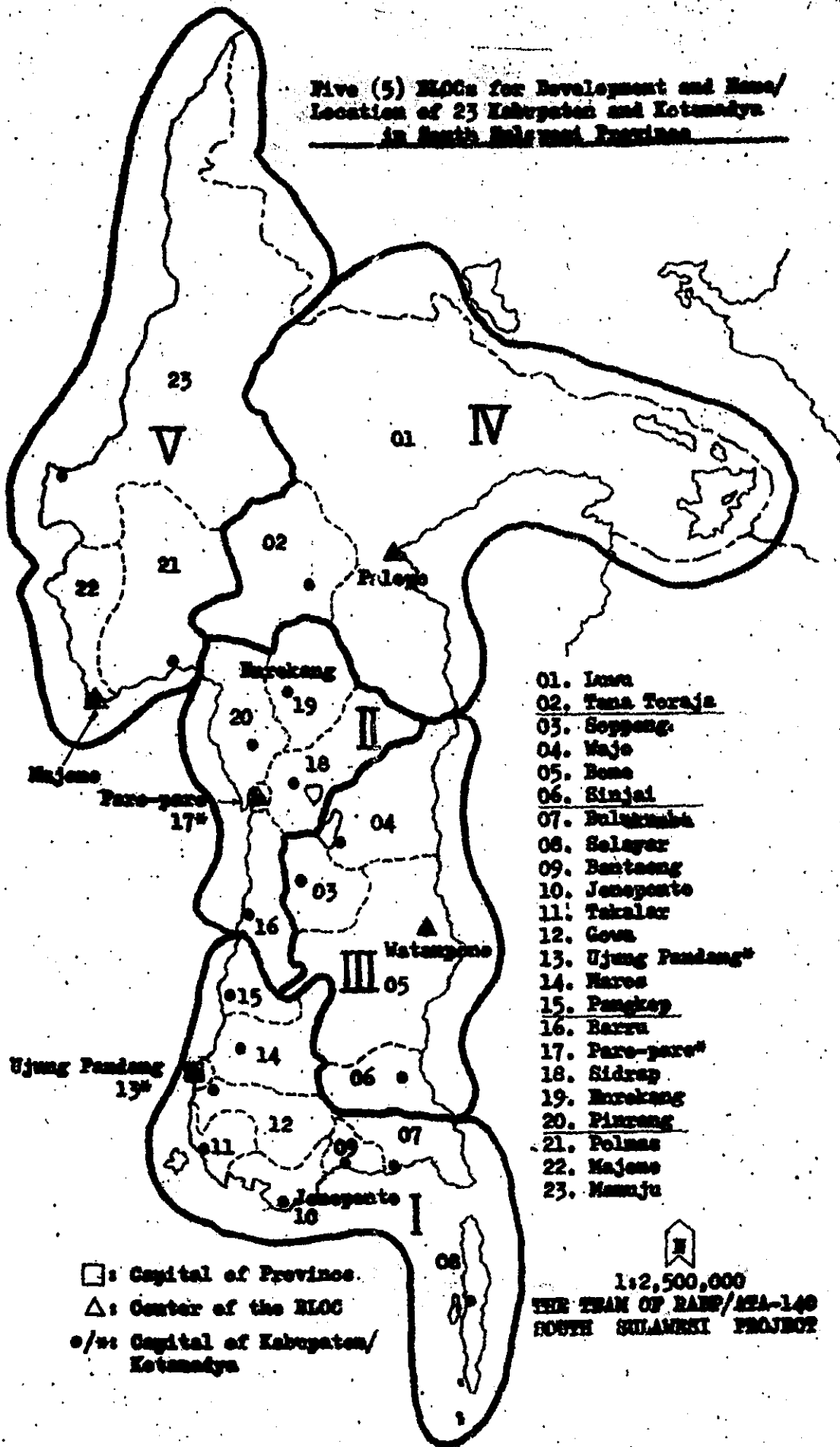
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IN UJUNG PANDANG**

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**Five (5) RLOCs for Development and Name/
Location of 23 Kabupaten and Kotamadya
in South Sulawesi Province**



- 01. Luwu
- 02. Tana Toraja
- 03. Soppeng
- 04. Wajo
- 05. Bone
- 06. Sinjai
- 07. Bulukamba
- 08. Selayar
- 09. Bantaeng
- 10. Jeneponto
- 11. Takalar
- 12. Gowa
- 13. Ujung Pandang*
- 14. Maros
- 15. Pangkep
- 16. Barru
- 17. Pare-pare*
- 18. Sidrap
- 19. Burakang
- 20. Pinrang
- 21. Polmas
- 22. Majene
- 23. Mamuju

□: Capital of Province.
 △: Center of the RLOC
 ●/○: Capital of Kabupaten/
 Kotamadya

1:2,500,000
 THE TRAN OF RAMP/MEA-140
 SOUTH SULAWESI PROJECT

C O N T E N T S
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and Kota Madya in South Sulawesi Province.

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GLOSSARY¹⁾

- A -

adat	customary law in Indonesia.
A.D.C.	Agricultural Development Center.
ani-ani	small hand knife used for cutting individual rice stalks.
APBD	Anggaran Pendapatan dan Belanja Daerah (the Provincial Budget).
APBN	Anggaran Pendapatan dan Belanja Negara (the National Budget).
appel	apple.
ATA	Agricultural Technical Assistance.
ayam	chicken.

- B -

babi	pig.
bahasa Indonesia	Indonesian Language.
(ikan) bandeng	Milkfish.
(ikan) baronang	Rabbitfish.
BAPPEDA	Badan Perencanaan Pembangunan Daerah (the Provincial Development Planning Board).
BAPPENAS	Badan Perencanaan Pembangunan Nasional (Ministry of State for National Development Planning).
bawang	onion.
bawang merah	onion.
bawang putih	garlic.
bawon	practice of paying harvest labourers with share of harvest.
bebek/itek	duck.
bengkok	(tanah bengkok) village land given to village officials in payment for services during term of office or life.
beras	rice.
beras giling	milled rice.
bihun	rice noodle.
biji	seeds.

1) In this "glossary", there are many words which are not used in description of the Report, but those words are presented for the study of Agriculture in Indonesia.

BIMAS	Bimbingan Masal (Mass Guidance for agricultural extension).
BPLPP	Badan Pendidikan, Latihan dan Penyuluhan Pertanian (Agricultural Education, Training & Counseling Bureau).
BPS	Biro Pusat Statistik (Central Statistical Bureau).
BRI	Bank Rakyat Indonesia (the People's Bank).
BULOG	Badan Urusan Logistik (Agency for State Logistics Affairs).
buncis	French beans, butter beans.
Bupati	Chief administrative officer of Kabupaten, resident.
BUUD	Badan Usaha Unit Desa (Village Unit Executive Body).

- C -

Camat	Chief of administrative officer of Kecamatan.
cengkeh	clove (<i>Eugenia aromatica</i> KUNTZE.).
coklat	cacao (<i>Theobroma cacao</i> LINN.).

- D -

D.	Dinas (Provincial representative of central government ministry).
daersh	area, region.
daging	meat.
danau	lake.
daun	leaf/leaves.
Depdagri.	Departemen Dalam Negeri (Ministry of the Interior).
Deptan.	Departemen Pertanian (Ministry of Agriculture).
desa	village.
D.I.	Daerah Istimewa (Special Region).
Diperta.	Dinas Pertanian Rakyat (Agricultural Extension Service).
Diptra.	Dinas Peternakan (Animal Husbandry Service).
D.J./Dirjen.	Direktorat Jenderal (Directorate General).
D.K.I.	Daerah Khusus Ibukota (Special Region of National Capital).
Dians	Provincial representative of central government ministry).
DOLOG	Depot Logistik (Regional Logistics Affairs Board).
D. P&K	Departemen Pendidikan dan Kebudayaan (Ministry of Education and Cultural Affairs).
DFU	Dinas Pekerjaan Umum (Public Works Service).
DFUP	Dinas Pekerjaan Umum Pengairan (Irrigation Service).
DFUT	Departemen Pekerjaan Umum dan Tenaga Listrik. (Ministry of Public Works and Electric Power)

duku Lanzon (Lansium Domesticum).
durian durian.

- E -

E.K.I. Ekonomi dan Keuangan Indonesia (Name of a magazine:
Indonesian Economy and Finance).
Exim expor impor (export and import).

- F -

F/S Feasibility Study.

- G -

gabah unhusked rice.
gadu dry season's paddy in irrigated paddy field.
gadung yam.
gaplek dried cassava chips.
G.D.P. Gross Domestic Product.
gogo paddy in non-irrigated field.
gotong royong mutual assistance, cooperation, especially on desa
public works programmes.
gula sugar.
gula merah palm sugar.

- H -

HYV high yielding variety.
HDQ headquarter.

- I -

IBRD International Bank for Reconstruction and Development.
ijon selling/pawning crops before harvest.
ikan fish.
ikan asin salted fish.
ikan terbang flying fish.
INPRES Instruksi Presiden (Instruction of the President,
the subsidy programmes by the Central Government).
IPEDA Central government tax accruing to Kabupaten for
development purposes.
INMAS Intensifikasi Masal (Group intensification, a way
of extension for paddy production).

- J -

jahe ginger.
jagung corn.
jambu mente cashew nut.

jarak castor oil plant (*Ricinus communis* LINN.).
jawawut press millet, italian millet.
J.C. Joint Committee.
jeruk citrus (fruit).
JICA Japan International Cooperation Agency.
JKT Jakarta.

- K -

Kabupaten sub-provincial administrative district, regency.
kacang beans.
kacang hijau/ijo green gram.
kacang kedele soya beans.
kacang merah red kidney beans.
kacang panjang yardlong beans/cowpeas.
kacang tanah peanuts.
kambing goat.
kangkung swampcabbage (*Ipomoea Reptans*).
Kantwil Kantor Wilayah (Regional Office).
kapas cotton (*Gossypium herbaceum* LINN.).
kapok kapok (*Ceiba pentandra* (LINN.)).
karet (para) rubber(*Hevea brasiliensis* MUELL. ~~ARG.~~).
Kecamatan administrative district below Kabupaten level.
kecap soyabean sauce.
kehutanan forestry.
kelapa coconut (*Cocos nucifera* LINN.).
kelapa sawit Oil Palm (*Elaeis guineensis* JACQ.).
kemiri candle-nut tree (*Aleurites moluccana* (LINN.) WILLD.).
kenari Java almond (*Canarium Commune*).
kentang potato.
kepiting crab.
kerbau buffalo.
kerang shellfish (clam).
(beras) ketan glutinous rice.
ketela cassava.
ketimun cucumber.
kios Distribution spot for fertilizer/pesticide in BUUD/KUD.
K.M. Kotamadya.
kodok frog.
kolam fresh water pond.
kool cabbage.

kool kembang	cauliflower.
kopi	coffee
kopi Arabika	coffee (<i>Coffea arabica</i> LINN.).
kopi Robusta	coffee (<i>Coffea robusta</i> HORT.).
kopra	copra.
Kotamadya	Municipality.
krupuk	crispy.
KUD	Koperasi Unit Desa (Village Unit Cooperative).
kuda	horse.

- L -

labu	pumpkin.
lada/merica	pepper (<i>Piper nigrum</i> LINN.).
ladang	dry unirrigated field.
lambo	small sailing boat.
laporan	report.
laporan tahunan	annual report.
lobak	(Chinese) radish.
LPPM	Lembaga Penelitian Pertanian Maros (Maros Agricultural Experiment Station, in Kabupaten Maros, South Sulawesi).

- M -

M.A.	Ministry of Agriculture.
M.A.F.F.	Ministry of Agriculture, Forestry and Fishery.
mangga	mango.
manggis	mangosten.
markisa	passion fruit.
mentega	butter.
merica	pepper.
M.F.A.	Ministry of Foreign Affairs.
minyak	oil.

- N -

nanas	pine apple.
nangka	jackfruit.
nelayan	fishermen.

- P -

paceklik	period just before harvest when food stuffs are in short supply.
padi	paddy.
padi kering	dried paddy.

pala	nutmeg (<i>Myristica fragrans</i> HOUTTUYN).
palawija	secondary crops.
PANCA USAHA	the Five Efforts for farming.
pangan	food.
pasar	market.
pekarangan	house garden.
PELITA	Pembangunan Lima Tahun (Five Years Development Plan).
pembangunan	development.
Pemda	Pemrintah Daerah (Provincial of Kabupaten's Government).
pengairan	irrigation.
penhijauan	greening, reafforestation, erosion control.
penisi	sailing boat.
pepaya	papaya.
perikanan	fishery.
perencanaan	planning.
perkebunan	estate.
pertanian	agriculture.
petani	farmer.
peternakan	animal husbandry.
pisang	banana.
PLP	Pusat Latihan Pertanian (Agricultural Training Center).
PMU	Proyek Managemen Unit. (Project Management Unit).
PMD	Pembangunan Masyarakat Desa (Rural Community Development).
PN	Perusahaan Nasional (State enterprise).
PPL	Penyuluh Pertanian Lapangan (Field Extension Worker).
PPM	Penyuluh Pertanian Menengah (Senior Agril. Extension Worker).
PPS	Penyuluh Pertanian Spesialis (Agricultural Extension specialist).
PT	Perusahaan Terbatas (limited company).
pusat	center.

- R -

RADP	Regional Agricultural Development Planning.
rambutan	ramboostan, rambostaan.
rawa	swamp.
R/D	Record of Discussion.
rebung	bamboo shoot.
REC	Rural Extension Center.
rencana	plan.
rendengan	wet season's paddy in irrigated paddy field.

REPELITA	Rencana Pembangunan Lima Tahun (Five Years Development Plan).
R.G.D.P.	Regional Gross Domestic Product.
Boren	Biro Perencanaan (Bureau of Planning).
rosella	roselle (<i>Hibiscus sabdariffa</i> LINN. var. <i>altissima</i> WESTER).
RT	Rukun Tetangga (a sub-administrative unit).

- S -

sagu	sago.
salak	salaca.
sapi	cattle, cow.
santan	coconut milk.
sawah	paddy field (wet field).
sawo	sapodillas/maesbery (<i>Achras Zapota</i>).
S.C.	Steering Committee.
Sederhana Project	ordinary (i.e. non-technical) irrigation project.
semangka	watermelon.
sereh/serai	lemon grass (<i>Cymbopogon ditratus</i> STAPP = <i>Andropogon nardus</i> LINN. subsp. var. <i>ceriferus</i>).
serah	Citronella grass (<i>Cymbopogon nardus</i> RENOLE. = <i>Andropogon nardus</i> LINN. subsp. <i>genuinus</i> HACK.). (2) Java citronella (<i>Cymbopogon winterianus</i> JOWITT.).
singkong	cassava.
Sistem LAKU	the training-and-visiting system (a extension way).
sorghum	sorghum (<i>Sorghum vulgare</i> PERS.).
SRDS	Sulawesi Regional Development Study.
sutra	silk (sericulture).
S.S.	Sulawesi Selatan (South Sulawesi).
Sulsel	Sulawesi Selatan (South Sulawesi).
sungai	river.
Susenas	Survey Sosio Ekonomi Nasional (National Socio-economic Surveys).
susu	milk.

- T -

tahu	soybean card.
talas	elephants ear (taro, yam).
tambak	brackish water fish pond.
tanaman	crops/plants.

tanaman pangan	food crops.
Tani Makmur	Prosperous farming (a project name for increasing of rice production).
tebu	sugar cane (<i>Saccharum officinarum</i> LINN.).
tegal	unirrigated field.
teh	tea.
telur	egg.
tembakau	tobacco.
tembakau Rakyat	local variety tobacco.
tembakau virginia	virginia tobacco (<i>Nicotiana tabacum</i> Linn. var. <i>virginica</i> COMES.).
tepung	flour.
terigu	wheat.
tomat	tomato.
T/R	Terms of Reference.

- U -

ubi jalar	sweet potato.
ubi kayu	cassava.
udang	prawn, shrimp.
unggul	high (variety).
UNHAS	Universitas Hasanuddin (University of Hasanuddin in Ujung Pandang).
U.P.	Ujung Pandang.
U.P.I.E.	Ujung Pandang Industrial Estate.

- W -

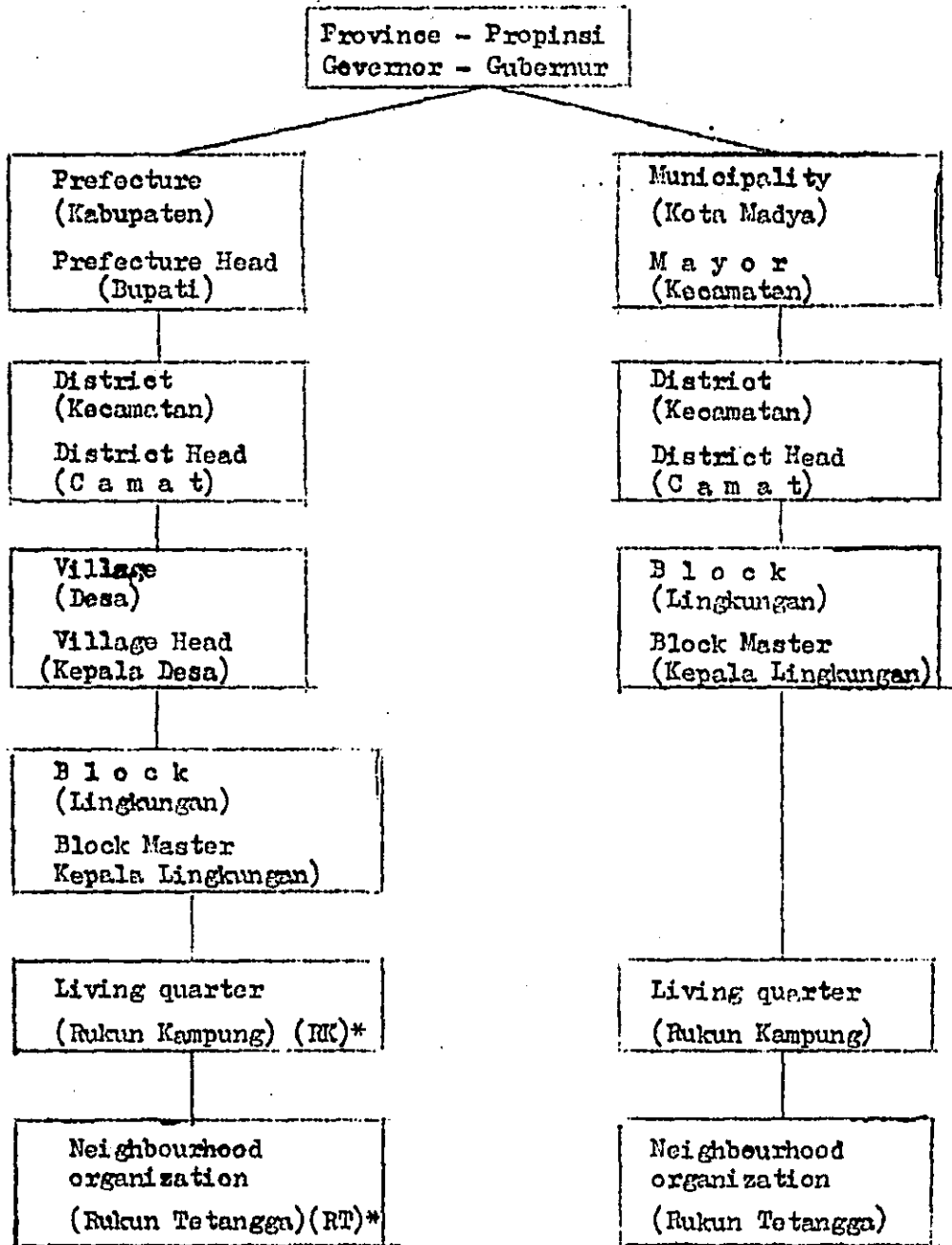
wereng	a grass hopper - like pest which attacks riceplants.
wijen/bijen	sesame (<i>Sesamum indicum</i> LINN.).
wilayah	zone/region/bloc/district.
WILUD	Wilayah Unit Desa (Unit village's region).
wortel	carrot.

I

DATA/INFORMATION FOR THE GENERAL CONDITION
OF SOUTH SULAWESI PROVINCE

REFERENCE DATA/INFORMATION
FOR CHAPTER 5. IN THE VOLUME II

I.1. Chart of Provincial Administration



I.2 Projection of total population of Zone D in 1971, 1976 and 1981.

Province	Total population *)		
	1971 1)	1976	1981 2)
1. North Sulawesi	1.718.155	1,930,147	2.249.220
2. Central Sulawesi	913.662	1,097,019	1.196.617
3. South Sulawesi	5.189.227	5,573,322	6.793.484
4. Southeast Sulawesi	714.120	817,273	934.775
5. West Nusa Tenggara	2.202.213	2,373,314	2.851.068
6. East Nusa Tenggara	2.294.945	2,483,908	2.971.481
7. M a l u k u	1.088.945	1,251,353	1.409.997
8. Irian Jaya	923.440	1,025,331	1.196.361
W.P.U.	15.044.707	16,551,667	19.603.003

Source: 1). Processed from tables 3.7.1 and 3.7.2.

2). the book " Perkiraan Penduduk Indonesia Akhir Tahun 1971 - 1981 menurut Daerah " (B P S)

*) Note : including foreigners.

I.3 Population by Kabupaten in South Sulawesi 1961 - 1976.

No.

No. KAB.	Acreage (000 ha)	P o p u l a t i o n									
		1961	1971	1972	1973	1974	1975	1976			
1. LUW.	2.013.2	300.499	326.062	339.878	354.678	372.720	380.174	395.772			
2. TAT.	321.6	279.213	308.054	324.431	306.646	312.436	318.685	311.609			
3. SOP.	134.3	193.010	230.625	232.146	233.050	233.699	238.373	239.110			
4. MAJ.	242.7	345.996	322.225	323.449	307.677	308.187	314.351	311.532			
5. BON.	439.7	515.782	596.943	602.352	609.123	612.863	625.120	621.211			
6. SIN.	92.0	103.625	149.394	152.040	153.444	157.247	160.391	159.400			
7. BUL.	113.2	209.635	260.341	267.239	269.385	270.227	275.631	271.318			
8. SEL.	63.3	87.278	92.342	94.901	96.769	97.148	99.091	98.053			
9. BAN.	41.5	71.546	89.607	91.732	91.649	93.437	95.306	94.711			
10. JEN.	79.3	227.613	200.605	204.083	210.810	214.893	219.191	214.438			
11. TAK.	55.0	132.667	152.553	155.291	153.387	156.004	159.124	154.393			
12. GOR.	175.0	298.407	365.616	307.485	309.173	314.425	320.714	311.507			
13. U.P.	11.6	334.159	434.168	561.328	564.462	558.672	569.045	561.111			
14. MAR.	138.1	154.795	197.424	179.997	183.573	197.622	201.575	197.239			
15. PAN.	84.8	167.596	205.169	205.253	200.573	202.363	206.410	200.111			
16. BAR.	119.4	127.988	132.718	133.625	133.824	134.145	136.823	134.111			
17. P.P.	11.1	67.992	72.471	73.156	72.140	73.653	75.126	74.111			
18. SID.	186.4	148.728	181.593	181.974	182.807	184.739	183.434	181.111			
19. ENR.	190.0	154.310	121.140	124.669	123.932	127.041	129.582	128.111			
20. PIN.	184.1	213.876	258.214	268.090	271.610	238.904	243.682	241.111			
21. POL.	475.0	227.831	313.559	317.181	317.353	323.853	330.330	321.111			
22. MAJ.	1.027.5	43.996	78.925	79.450	77.133	79.387	80.975	80.111			
23. MAM.	94.0	60.362	69.668	72.325	72.873	75.655	77.168	76.111			
TOT.	6.292.8	4.516.544	5.179.911	5.292.085	5.296.091	5.339.320	5.446.106	5.411.111			

Note: See II.6 (page 7) about Population in 1976

Source: Data from statistic and Census Office.

I.4 Number of population of South Sulawesi
by age group 1961 and 1971.

Age group	Year 1961			Year 1971		
	Male	Female	Total	Male	Female	Total
0 - 4	360.888	375.712	236.600	444.086	428.674	872.760
5 - 9	311.797	325.036	636.833	440.656	409.422	850.078
10 - 14	268.455	279.854	548.309	293.534	267.004	560.538
15 - 19	230.420	240.204	470.624	250.079	271.592	521.671
20 - 24	197.029	205.395	402.424	160.565	216.876	377.441
25 - 29	167.839	174.966	342.805	186.923	239.322	426.245
30 - 34	141.967	147.995	289.962	145.059	185.248	330.307
35 - 39	119.411	124.482	243.893	170.903	181.573	352.476
40 - 44	99.288	103.504	202.792	111.696	128.029	239.725
45 - 49	81.819	85.293	167.112	94.003	93.266	187.260
50 - 54	66.561	69.387	135.948	69.989	83.419	153.408
55 - 59	52.851	55.095	107.946	42.788	40.672	83.460
60 - 64	41.131	42.877	84.008	44.389	49.482	93.871
65 - 69	30.516	31.812	62.328	24.756	23.250	48.006
70 - 74	21.450	22.361	43.811	22.993	24.023	47.016
75 keatas	19.460	20.286	39.746	17.995	17.645	47.016
Total :	2.210.882	2.304.259	4.515.141	2.520.414	2.659.497	5.179.911

Source: Population Census.

I.5 Projection of population number of South Sulawesi
by age group in 1974, 1975 and 1976.

Age group	Year			1975	1976	1977
	Male	Female	Total			
0 - 4	490.851	511.216	1.002.067	1.016.046	1.030.220	1.044.393
5 - 9	409.263	426.244	835.507	847.162	858.900	870.634
10 - 14	340.655	304.789	645.444	705.146	714.982	724.818
15 - 19	282.643	294.370	577.013	585.063	593.224	601.385
20 - 24	233.902	243.607	477.509	484.171	490.925	497.679
25 - 29	192.844	200.845	393.689	399.180	404.749	410.308
30 - 34	158.142	164.704	322.846	327.350	331.916	336.479
35 - 39	128.739	234.081	362.820	266.486	270.203	273.919
40 - 44	104.104	108.423	212.527	215.492	218.498	221.504
45 - 49	83.177	86.628	168.805	172.174	174.576	176.978
50 - 54	65.614	68.420	134.034	135.985	137.882	139.779
55 - 59	50.860	52.970	103.830	105.278	106.747	108.216
60 - 64	38.410	40.033	78.443	79.507	80.616	81.725
65 - 69	28.079	29.244	57.323	58.122	58.993	59.864
70 - 74	19.072	19.864	38.936	39.479	40.030	40.581
75 keatas	16.953	17.657	34.610	35.092	35.582	36.074
Total:	2.643.308	2.853.095	5.496.403	5.471.733	5.548.063	5.619.337

Source: Population Census

I.6 Population density by Kabupaten in South Sulawesi.

No.	Kabupaten name	Population in 1976 000 person	Acreege Km ²	Population density person/Km ²
1.	Luw.	425.8	20,132	21
2.	Tat.	311.6	3,013	103
3.	Sop.	238.4	1,343	178
4.	Waj.	370.8	2,427	158
5.	Bon.	621.5	4,397	141
6.	Sin.	160.4	920	174
7.	Bul.	286.3	1,132	253
8.	Sel.	96.0	633	152
9.	Ban.	104.7	415	252
10.	Jen.	220.7	793	278
11.	Mak.	161.4	550	292
12.	Gow.	329.5	1,750	188
13.	U.P.	596.9	116	5,969
14.	Mar.	186.4	1,381	135
15.	Pan.	205.3	488	421
16.	Bar.	137.5	1,194	115
17.	P.P.	78.0	111	703
18.	Sid.	193.0	1,900	102
19.	Enr.	129.8	1,841	70
20.	Pin.	269.8	1,864	145
21.	Pol.	350.4	4,750	74
22.	Mat.	95.1	940	101
23.	Mam.	85.3	10,275	8
	TOT.	5,654.8	62,928	90

Source: Population Census.

I.7 Present Condition of Land use by Kabupaten & Bloc in South Sulawesi Province (1978)

Unit: 1,000 ha.

Kabupaten	Forest		Grass		Shifting		Upland		Paddy		Swamp		Fish		Salt		Total
	area	area	land	area	cultivation	area	area	field	area	forest	pond	farm	area	area	area	area	
Bloc I																	
1. U. Pandang	-	-	-	-	-	1.3	4.0	0.1	1.5	-	-	-	-	4.7	11.6		
2. M a r o s	59.5	9.6	24.1	8.5	24.1	21.7	0.1	4.4	10.2	138.1							
3. Pangkep	17.5	1.8	19.8	3.7	19.8	20.9	0.2	5.2	15.1	48.8							
4. G o w a	70.3	12.8	39.6	14.4	39.6	30.2	0.2	0.2	7.3	175.0							
5. Takalar	19.5	2.1	12.3	1.8	12.3	16.1	0.4	2.0	0.4	55.0							
6. Jeneponto	25.9	15.1	30.9	0.4	30.9	13.7	0.2	1.9	1.0	79.3							
7. Bantaeng	8.5	1.6	25.6	-	25.6	5.0	-	0.1	0.9	41.5							
8. Bulukumba	17.3	1.4	57.3	7.4	57.3	22.4	0.3	3.8	3.3	113.2							
9. Selayar	18.0	3.4	14.7	19.1	14.7	0.8	0.9	0.1	6.3	63.3							
10. Sinjai	22.9	12.9	20.3	20.9	20.3	10.5	0.1	0.5	4.1	92.0							
T o t a l	249.4	60.5	245.9	76.2	245.9	145.3	2.5	19.7	2.0	853.8							
Bloc II. B a r r u	79.6	-	11.5	6.6	11.5	11.5	1.4	2.0	7.8	119.4							
15. Pare-Pare	4.3	-	2.5	-	2.5	0.9	0.1	-	3.3	11.1							
16. Pinrang	63.6	20.0	34.8	5.7	34.8	46.9	1.6	6.5	7.3	186.4							
17. Sidrap	71.2	35.6	26.4	3.5	26.4	45.1	0.2	-	8.0	190.0							
18. Anrekan	95.1	34.3	17.3	14.0	17.3	9.0	-	0.1	14.3	184.1							
T o t a l	313.8	89.9	92.5	29.8	92.5	113.4	2.3	8.6	40.7	691.0							
Bloc III. B o n e	163.80.5	-	68.5	28.3	68.5	74.2	7.9	4.9	12.4	439.7							
12. Majene	37.2	52.5	64.8	3.7	64.8	68.3	21.1	6.6	8.5	242.7							
13. Soppeng	49.0	6.2	49.7	-	49.7	21.7	-	-	7.7	134.3							
T o t a l	249.2	119.2	138.0	32.0	138.0	164.2	29.0	11.5	28.6	816.7							
Bloc IV. T a t o r	134.6	48.5	37.2	9.9	37.2	17.8	-	-	23.6	321.6							
23. Luwu	1,307.1	50.5	118.9	50.1	118.9	45.3	10.8	3.1	427.4	2,013.2							
T o t a l	1,491.7	99.0	156.1	60.0	156.1	63.1	10.8	3.1	451.0	2,324.8							
Bloc V. P o l m a s	246.0	48.1	76.7	29.6	76.7	20.2	1.2	2.8	48.4	475.0							
20. Majene	50.0	23.9	9.9	2.6	9.9	1.1	0.2	0.6	5.7	94.0							
21. Mamuju	620.0	149.4	145.0	27.6	145.0	1.5	4.0	0.1	79.9	94.0							
T o t a l	918.0	221.4	231.6	59.8	231.6	22.8	5.4	3.5	134.0	1,526.5							
G. Total	3,222.1	590.0	909.1	257.8	909.1	508.8	50.0	46.4	2.0	6,292.8							

Note: This table is revised one of table 4.7 and 4.8 in the annual report P. 98-100.

Source: Data by Agencies Concerned.

Map of Present Condition of Land Use (Map: No. 1.)

I.6 Comparison between National and Regional Products(%)

No.	Sector	National (A)		Regional (B)		Percentage B/A	
		1973	1978	1973	1978	1973	1978
I. Food crop Agriculture							
		ton	ton	ton	ton	%	%
-	Rice	14,455	13,183	871	1,251	6	6.8
-	Co r n	2,600	4,150	343.1	209	13	5
-	Sorghum	55	240	-	-	-	-
-	Cassava	9,900	12,750	302.5	395	3	3.1
-	Soy bean	495	670	4.2	4.8	0.8	0.7
-	Green gram	65	90	12.8	19.2	19.7	21.3
II. Estate Crops (000 tons)							
-	Rubber	829.3	935.0	0.9	2.5	0.1	0.2
-	Palm oil	300.1	518.0	-	-	-	-
-	Inti Bawit	65.6	116.3	-	-	-	-
-	Copra	1,270.0	1,320.0	-	-	-	-
-	Coffee	210.3	248.8	5.3	9.1	2.5	3.6
-	T e h	54.4	87.3	-	-	-	-
-	C l o v e	15.4	27.6	0.007	1.0	0.04	3.6
-	Pepper	28.0	32.0	0.1	1.8	0.35	5.6
-	Cotton	3.0	30.0	-	29	-	96
-	Tobacco	68.1	85.3	3.8	28.7	5.6	33.6
-	Artmeg	9.6	13.8	0.005	1.3	0.05	9.4
-	Cinnamon	6.4	10.4	-	-	-	-
-	Capok	26.0	37.0	1.2	7.0	4.6	18.9
-	Cacao	2	2.4	0.025	1.6	1.2	56.6
-	Rosella/Knaf	9.9	20.7	3.7	9.0	37.4	43.5
-	S u g a r	991.6	1,356.0	0.3	1.6	0.08	0.12
III. Animal Husbandry (000 head)							
-	Cattle	6,400	7,200	438.2	1,135.9	6.8	15.8
-	Buffalo	2,800	3,100	364.9	675.6	13	21.8
-	G o z d	6,900	4,800	236.2	1,379.7	3.4	16.4
-	S h e e p	2,900	4,300	3.9	19.7	0.1	0.5
-	P i g	3,500	4,800	352.2	3,438.9	10	69.7
-	Chicken	85,000	125,000	4,759.6	-	5.6	-

Numbers of farms by land utilization in South Sulawesi (1973)

	Wet land Farm	%	Dry land Farm	% Utilization	Total farm W t land owners	Dry land owners	% of land owners	Bot by has of land owners	%	Total owners
1.	0.10 HA	7,343	14,475	21,818	45	7,177	1.1	7,298	1.1	14,520
2.	0.10 - 0.20 HA	23,637	45,702	69,339	188	22,253	3.4	23,449	3.6	45,890
3.	0.20 - 0.30 HA	29,997	49,188	79,185	298	19,489	0.1	29,677	4.6	49,486
4.	0.30 - 0.40 HA	28,369	40,161	68,530	175	11,987	1.8	28,174	4.3	40,356
5.	0.40 - 0.50 HA	23,115	30,212	53,327	42	7,139	1.1	23,073	3.6	30,254
6.	0.50 - 0.60 HA	41,063	65,311	106,374	292	24,560	3.8	40,771	6.3	65,623
7.	0.60 - 0.75 HA	34,496	44,313	78,809	215	10,032	1.5	34,281	5.3	44,528
8.	0.75 - 1.00 HA	53,383	70,518	123,901	222	17,357	0.2	53,161	8.2	70,740
9.	1.00 - 2.00 HA	139,980	186,694	326,674	471	47,165	7.3	139,509	21.5	187,165
10.	2.00 - 2.00 HA	48,452	61,075	109,527	136	12,759	2.0	48,316	7.4	61,211
11.	3.00 - 4.00 HA	15,810	19,814	35,624	58	4,062	0.6	15,752	2.4	19,872
12.	4.00 - 5.00 HA	7,587	9,289	16,876	0	1,702	0.3	7,587	1.2	9,289
13.	5.00 - 7.50 HA	5,095	6,770	11,865	0	1,675	0.1	5,095	0.8	6,770
14.	7.50 - 10.00 HA	1,277	1,232	1,395	45	0	-	1,232	0.2	1,277
15.	10.00 - 15.00 HA	623	1,287	679	0	664	0.1	623	0.1	1,287
16.	15.00 -	240	439	439	0	177	0.0	240	0.0	439
T o t a l		450,467	646,500	1,106,967	2,207	188,240	0.3	458,260	70.7	648,707

1. Wetland farm owners = 648,707 - 646,500 = 2,207 (0.3 %)
 2. Dry land farm owners = 648,707 - 450,467 = 188,240 (29.0 %)
 3. Both of tyveland owners = 648,707 - (2,207 + 188,240) = 458,260 (70.7 %)

Source : Agr.Census 1973.

I. 10 Number of Farms by Tenure in South Sulawesi (1973)

No.	Size of Holding	Number of Farms		Whole area		Part of Area owned		Not Owned	
		(Total)	%	owned	%	owned	%		%
1.	0.10 HA	14,500	76.6	2,148	14.8	1,249	8.6		
2.	0.10 - 0.20 HA	45,890	70.7	9,065	19.8	4,378	9.5		
3.	0.20 - 0.30 HA	49,486	65.2	10,704	21.6	6,321	12.8		
4.	0.30 - 0.40 HA	40,356	65.2	11,177	27.7	2,851	7.1		
5.	0.40 - 0.50 HA	50,254	58.5	9,922	32.8	2,631	8.7		
6.	0.50 - 0.60 HA	65,623	63.2	18,392	28	5,757	8.8		
7.	0.60 - 0.75 HA	44,528	52.8	18,385	41.3	2,611	5.9		
8.	0.75 - 1.00 HA	70,740	57.1	27,132	38.4	3,190	4.5		
9.	1.00 - 2.00 HA	187,165	57.6	72,821	38.9	6,462	3.5		
10.	2.00 - 3.00 HA	61,211	57.0	75,044	40.9	1,297	2.1		
11.	3.00 - 4.00 HA	19,872	57.7	8,150	41.0	259	1.3		
12.	4.00 - 5.00 HA	9,289	57.1	3,986	42.9	-	-		
13.	5.00 - 7.50 HA	6,770	69.1	2,003	29.6	90	1.3		
14.	7.50 - 10.00 HA	1,277	52.0	712	55.8	45	3.5		
15.	10.00 - 15.00 HA	1,287	51.5	573	44.5	51	4.0		
16.	15.00 →	437	33.7	291	66.3	-	-		
T o t a l		648,707	60.3	220,505	34.0	39,194	5.7		

(100 %)
 Total Area (HA) 1 737,453 1 422,419 1 57.3 1 290,096 1 39.3 1 24,940 1 3.4 1
 (100 %)

Source: Agricultural Census in 1973.

The Total farmers household = 919,542
 Total farmers (owned and tenanted land) = 648,707
 Total of agr. labor (= penggarah free workers) 270,855
 Total households = 952,673 in South Sulawesi
 Source: Agricultural Census 1973.

II

DATA FOR THE CONDITION OF AGRICULTURAL
PRODUCTION IN SOUTH SULAWESI PROVINCE

REFERENCE DATA FOR CHAPTER 6.1.
IN THE VOLUME II

II.1. Average of production for food stuffs per capita
by Kabupaten in South Sulawesi Province in 1974.-

Unit: kg.

Kabupaten	Rice	Corn	Cassava	Sweet potato	Total
01. Luw.	115.25	6.85	11.83	3.89	137.82
02. Tat.	102.11	4.14	25.16	14.36	145.77
03. Sop.	200.32	58.17	1.42	0.62	260.53
04. Waj.	169.11	12.73	19.08	3.07	203.99
05. Bon.	84.14	9.44	5.40	1.16	100.22
06. Sin.	79.39	35.04	13.07	5.17	133.47
07. Bul.	193.81	50.19	14.62	3.97	262.59
08. Sel.	10.35	67.64	6.80	1.66	86.45
09. Ban.	108.50	85.98	3.10	3.37	200.95
10. Jen.	73.00	57.82	15.55	0.64	147.01
11. Tak.	186.99	18.68	8.92	3.92	218.51
12. Gow.	107.89	16.30	23.09	2.22	209.50
13. U.P.	5.81	1.78	9.70	0.06	17.05
14. Mar.	207.72	2.07	8.06	1.43	219.28
15. Pan.	181.04	3.98	13.88	2.07	210.97
16. Bar.	110.03	2.79	2.09	4.18	119.09
17. P.P.	32.94	5.91	2.03	0.33	41.21
18. Sid.	234.11	3.11	9.86	1.10	248.18
19. Ehr.	48.44	14.09	19.61	1.15	83.29
20. Pin.	287.33	5.19	34.85	2.30	325.67
21. Pol.	119.89	6.82	31.11	2.18	160.00
22. Maj.	30.34	1.93	53.92	2.86	89.05
23. Mam.	48.55	62.15	20.00	5.83	136.53
Total:	123.96	17.19	15.17	2.54	159.76

Source : Laporan Pertanian 1974.-

(Continue)

II.1. Average of production for food stuffs per capita
by Kabupaten in South Sulawesi in 1975.-
(continued)

Unit: Kg.

Kabupaten	Rice	Corn	Cassava	Sweet potato	Total
01.	152.82	5.33	9.88	3.71	171.75
02.	108.92	3.06	27.55	14.41	153.94
03.	289.49	36.74	0.74	0.50	327.47
04.	345.40	17.05	8.30	2.09	372.84
05.	156.17	18.45	2.41	0.89	199.90
06.	154.45	64.27	12.02	3.38	234.12
07.	182.04	56.72	13.88	2.98	255.42
08.	11.98	91.73	7.28	1.95	112.94
09.	129.06	64.25	3.92	2.25	199.48
10.	69.21	75.10	25.95	0.61	170.87
11.	208.03	14.71	15.11	1.71	239.56
12.	190.36	23.97	32.29	1.63	248.25
13.	7.20	0.03	1.86	0.52	9.21
14.	223.10	1.74	2.43	1.24	228.51
15.	225.49	2.58	10.40	1.91	240.38
16.	168.17	6.22	1.61	1.67	177.67
17.	26.28	1.21	3.16	0.35	31.00
18.	326.10	1.39	4.19	0.57	382.25
19.	87.68	17.09	25.70	0.84	131.31
20.	356.59	2.77	8.10	1.50	368.96
21.	149.47	5.45	25.61	1.66	182.19
22.	49.09	3.36	78.59	1.20	132.24
23.	64.13	38.76	21.65	5.04	129.58
Total:	169.01	19.64	12.65	2.30	203.60

Source : Laporan Pertanian 1975.-

II.1. Average of production for food stuffs per capita
in South Sulawesi in 1976.-
(continued)

Kabupaten	Unit: Kg.				
	Rice	Corn	Cassava	Sweet potato	Total
01.	183.21	2.98	5.18	2.46	193.83
02.	132.35	3.63	25.14	8.06	168.18
03.	285.82	36.08	0.48	0.57	322.95
04.	155.95	24.17	7.13	1.53	188.78
05.	133.17	15.34	1.27	0.48	150.26
06.	127.93	109.70	12.39	2.58	252.60
07.	165.96	42.50	16.34	3.89	228.69
08.	10.88	131.89	7.36	1.94	152.05
09.	112.83	67.35	6.14	2.48	188.80
10.	69.21	69.31	33.35	1.04	172.91
11.	148.36	14.85	8.56	1.39	173.10
12.	144.47	22.05	19.01	1.75	187.28
13.	8.66	0.15	1.57	0.15	10.53
14.	362.63	2.47	1.44	0.95	375.49
15.	256.25	3.00	10.58	2.31	272.14
16.	154.82	8.73	2.56	2.59	168.34
17.	31.80	2.36	9.15	0.22	43.53
18.	731.18	1.26	5.04	0.93	738.41
19.	96.05	18.03	18.20	0.60	132.88
20.	407.33	5.18	9.95	1.46	
21.	110.81	3.36	20.82	1.37	136.36
22.	36.20	4.20	61.47	3.71	105.58
23.	51.52	40.08	21.34	5.31	118.25
Total:	168.71	20.42	11.09	1.86	202.08

Source : Laporan Pertanian 1976.-

II.2. Average production per capita of food stuff by commodity in South Sulawesi
specified by Kabupaten (1974 - 1976).

No.	Kab.	1974 (kg)			1975 (kg)			1976 (kg)					
		Rice	Corn	Cassava sweet potato	Rice	Corn	Cassava sweet potato	Rice	Corn	Cassava sweet potato			
1.	Luw.	221.64	6.85	39.42	12.98	293.89	5.33	32.97	12.35	352.32	2.98	17.27	8.18
2.	Tat.	196.37	4.14	83.86	47.85	209.46	3.06	91.84	48.82	254.51	3.63	80.48	26.85
3.	Sop.	385.23	58.17	4.72	2.06	556.72	36.74	2.43	1.67	549.66	36.08	1.60	1.89
4.	Mac.	325.22	12.73	63.60	10.22	664.23	17.05	27.66	6.95	299.90	24.19	23.77	4.43
5.	Bon.	161.81	9.44	18.25	3.88	300.32	18.45	8.05	2.91	256.10	15.34	4.22	1.61
6.	Sin.	152.68	35.04	46.24	17.22	297.02	64.27	40.03	11.27	246.01	109.78	41.33	8.61
7.	Bul.	372.71	50.13	48.72	13.23	350.08	56.72	46.28	9.28	319.15	42.50	54.47	12.97
8.	Sel.	19.90	67.04	22.66	5.52	23.04	91.73	24.27	6.50	20.92	131.87	24.53	6.45
9.	Ben.	208.05	85.98	10.33	11.22	248.19	64.25	15.05	7.49	216.99	67.35	28.25	8.25

Source : Laporan Pertanian 1974, 1975, 1976.-

(Continue)

II. 2 (Continued)

10. Jen.	140.39	57.82	51.82	133.10	75.10	86.51	2.03	133.09	69.31	111.18	3.45
11. Tak.	359.59	18.68	29.72	400.05	14.71	50.36	5.71	285.31	14.85	28.54	4.63
12. Gov.	322.87	16.30	26.98	366.07	23.87	107.63	5.45	277.82	22.05	63.37	5.82
13. U.P.	11.18	1.78	32.33	13.85	0.03	6.19	0.39	16.65	0.15	5.22	0.50
14. Mar.	399.46	2.07	26.86	429.03	1.74	8.10	4.12	697.37	2.47	31.48	3.16
15. Pen.	367.39	3.98	46.25	433.40	2.58	34.65	6.38	492.79	3.00	36.27	7.70
16. Bar.	211.60	2.79	6.98	50.53	6.22	5.38	5.55	297.73	8.73	8.52	8.64
17. P.P.	63.34	5.91	6.75	723.27	1.21	18.54	1.16	61.66	2.36	30.51	0.72
18. Sid.	450.21	3.11	32.87	108.61	1.59	13.98	1.91	406.12	1.26	16.79	3.09
19. Enr.	93.16	14.09	65.36	685.75	17.09	85.65	2.80	184.72	18.72	60.67	1.99
20. Pin.	552.55	5.19	116.16	287.44	2.77	26.99	5.00	783.12	5.18	26.51	4.85
21. Pol.	230.55	6.82	103.69	94.40	5.45	85.37	5.53	0.21	3.36	69.41	4.56
22. M.J.	58.35	1.93	179.73	123.32	3.56	261.56	4.00	69.61	4.20	204.89	12.36
23. Mem.	93.37	62.15	66.67	325.01	38.76	72.17	16.79	99.07	40.06	71.13	17.71
Tot.	238.39	17.79	50.57	17.64	9.45	42.15	7.68	324.45	20.42	36.98	6.21

II.3. Average production per capita of food stuff in
South Sulawesi, specified by Kabupaten (1974-1976)

	Main food stuff			Peanuts			Green gram & Soy beans		
	1974	1975	1976	1974	1975	1976	1974	1975	1976
1. Luw.	137.8	171.9	193.8	0.76	1.43	0.91	6.44	4.13	2.45
2. Tat.	145.8	153.9	168.2	0.69	0.48	0.38	0.01	0.06	0.07
3. Sop.	260.5	327.5	323.0	9.38	10.10	0.61	15.93	11.57	9.33
4. Waj.	204.0	372.8	188.8	0.18	2.38	0.00	2.58	4.50	6.08
5. Don.	100.2	177.9	150.3	2.24	6.78	4.82	1.08	1.86	1.21
6. Sin.	133.4	234.1	252.6	6.62	13.85	10.77	0.29	0.01	0.00
7. Bul.	262.6	255.4	228.7	9.58	29.90	5.33	0.61	0.67	0.47
8. Sel.	86.5	112.9	152.1	0.45	0.85	0.83	0.84	0.92	0.93
9. Ban.	201.0	199.5	188.8	23.35	28.03	6.78	0.66	0.86	0.35
10. Jen.	147.0	170.9	172.9	1.60	4.01	1.59	6.63	9.17	13.44
11. Tak.	218.5	239.6	173.2	0.24	0.45	0.27	7.58	4.93	6.32
12. Gov.	209.5		187.3	0.23	0.22	0.28	7.54	5.67	4.68
13. UP.	17.4	9.2	10.5	0.07	0.05	0.04	0.50	0.10	0.18
14. Mar.	219.3	288.5	375.5	0.69	0.40	0.32	1.98	0.33	0.41
15. Pan	211.0	248.4	272.1	0.35	0.91	1.43	2.63	2.07	3.62
16. Bar.	119.1	177.7	168.3	38.92	3.54	14.81	0.86	0.06	2.02
17. P.P.	43.2	31.0	43.5	0.23	0.24	0.40	0.87	0.00	
18. Sid.	248.2	282.3	738.4	0.50	0.47	0.11	1.03	0.00	0.07
19. Ehr.	83.3	131.3	132.9	2.35	1.77	2.17	0.53	0.67	1.24
20. Pin.	325.7	369.0	421.9	0.26	0.76	0.57	3.27	1.19	2.09
21. Pol.	160.0	182.2	136.4	0.19	0.20	0.20	0.96	0.36	0.63
22. Maj.	89.1	132.2	105.6	0.66	0.46	0.68	1.25	4.12	2.76
23. Mam.	136.5	129.6	18.3	2.05	0.00	2.78	3.09	2.16	10.82
Total:	159.8	203.6	202.1	2.56	4.39	2.43	2.99	2.49	2.70

Source : Laporan Pertanian 1974, 1975, 1976.

II.4. Production per capita of vegetable and fruits in South Sulawesi, specified by Kabupaten. (1974 - 1976)

Unit: Kg.

No. Kab.	Fresh Vegetables			Dry Vegetables		
	1974	1975	1976	1974	1975	1976
1. Luw.	1.50	2.10	1.13	6.44	4.13	2.45
2. Tat.	10.75	18.80	6.00	0.01	0.06	0.07
3. Sop.	3.68	4.15	3.27	15.93	11.57	9.33
4. Waj.	4.32	6.04	6.74	2.58	4.50	6.08
5. Bon.	0.46	0.14	0.08	1.08	1.86	1.21
6. Sin.	1.21	3.99	4.55	0.29	0.01	0.00
7. Dul.	1.07	1.34	2.03	0.61	0.67	0.47
8. Sel.	0.93	0.71	0.62	0.84	0.92	0.93
9. Ban.	3.42	5.25	5.25	0.66	0.86	0.35
10. Jen.	1.63	3.51	6.52	6.63	9.17	13.44
11. Tak.	5.83	7.73	7.31	7.58	4.93	6.32
12. Gow.	4.36	7.36	3.25	7.54	5.67	4.68
13. Mar.	3.44	2.63	2.68	1.98	0.33	0.41
14. U.P.	0.04	0.04	0.07	0.50	0.10	0.18
15. Pan.	2.03	0.68	1.41	2.63	2.07	3.62
16. Bar.	4.17	0.22	4.07	0.86	0.06	2.02
17. P.P.	5.97	2.26	2.18	0.87	0.00	0.33
18. Sid.	38.05	3.34	4.45	1.03	00.00	0.07
19. Dnr.	33.14	35.44	44.84	0.53	0.67	1.24
20. Pin.	0.42	0.74	2.41	3.27	1.19	2.09
21. Pol.	2.96	3.42	2.91	0.96	0.36	0.63
22. Maj.	7.43	10.25	10.41	1.25	4.12	2.76
23. Mam.	0.00	0.26	0.94	2.09	2.16	10.82
Total:	4.67	4.37	3.94	2.29	4.47	2.70

(Continue)

Source: Laporan Pertanian 1974, 1975, 1976.

II.4 (Continued)

	Bananas			Fruits		
	1974	1975	1976	1974	1975	1976
1.	4.83	9.59	13.50	4.02	2.95	10.26
2.	0.98	2.73	1.67	1.57	0.69	1.19
3.	1.16	1.71	1.69	22.64	30.34	12.03
4.	29.30	74.59	42.58	10.79	7.35	8.79
5.	1.49	1.87	1.11	0.77	1.84	1.69
6.	43.52	5.55	2.97	4.77	7.17	0.31
7.	13.83	24.09	31.24	4.59	5.55	4.37
8.	4.80	0.00	3.92	0.10	0.30	9.79
9.	1.80	1.15	2.34	1.93	3.15	9.46
10.	13.03	3.75	2.42	19.97	7.16	33.03
11.	38.02	33.68	29.11	5.00	0.31	3.10
12.	4.64	14.69	6.27	2.45	32.83	9.89
13.	3.70	26.65	23.53	1.11	4.29	8.80
14.	0.03	0.03	0.27	0.25	0.23	4.27
15.	15.86	3.63	6.48	5.24	3.92	54.79
16.	5.59	8.33	6.95	0.82	1.32	5.24
17.	38.29	9.85	0.08	3.12	4.53	1.15
18.	8.79	12.64	19.94	12.18	6.05	10.67
19.	4.86	6.55	0.00	41.01	41.67	35.52
20.	0.51	10.48	20.68	5.06	60.65	12.34
21.	17.63	7.73	11.61	8.52	13.80	27.37
22.	84.40	89.23	99.29	12.85	10.62	20.71
23.	9.29	20.73	12.57	6.21	1.43	25.91
Total	10.63	13.53	12.62	6.32	10.70	12.00

Source : Laporan Pertanian 1974, 1975, 1976.

II.5. Production per capita of main estate crops in
South Sulawesi, specified by Kabupaten,
1974 - 1976.

No.	Kabupaten	Unit : in Kg.		
		Coconut	Coffee	Candlenut
1.	L u w u	13.5	1.5	0.2
2.	Tana Toraja	0.1	2.0	-
3.	Soppeng	5.7	0.0	1.7
4.	W a j o	12.8	0.0	1.6
5.	B o n e	4.8	0.1	2.1
6.	Sinjai	8.7	1.4	2.9
7.	Bulukumba	14.6	3.8	0.7
8.	Selayar	92.3	0.0	2.2
9.	Bantaeng	2.4	4.8	8.1
10.	Jeneponto	7.8	0.1	0.1
11.	Takalar	1.6	-	-
12.	G o w a	1.1	1.0	2.1
13.	Ujung Pandang	0.1	-	0.0
14.	Maros	0.6	0.0	14.5
15.	Pangkajene	14.4	0.0	0.1
16.	B a r r u	3.2	0.1	2.1
17.	Pare-Pare	2.9	-	0.7
18.	Sidrap	10.2	0.0	3.5
19.	Enrekang	3.5	3.5	4.2
20.	Pinrang	23.3	0.2	1.7
21.	Polmas	32.2	4.1	0.5
22.	Majene	58.4	0.9	0.3
23.	Mamuju	77.6	1.3	0.2
T o t a l :		12.0	0.8	1.7

Source : Laporan Perdagangan 1974, 1975, 1976.

II.6. Production per capita of meat in South Sulawesi
specified by Kabupaten 1975.

								Unit: in Kg.
No.	Kab.	Cows	Bulls	Goats	Pigs	Fowls	Total	Per capita
1.	Luw.	208	224	31	162	347	972	2.6
2.	Tat.	6	629	31	2.563	263	3.492	11.0
3.	Sop.	417	27	25	-	247	216	3.0
4.	Waj.	378	734	66	-	572	1.750	5.6
5.	Bon.	109	560	41	-	805	1.515	2.4
6.	Sin.	240	253	46	29	492	1.058	6.6
7.	Dul.	247	238	39	-	118	642	2.3
8.	Sel.	2	62	52	-	45	161	1.6
9.	Ban.	114	137	47	4	88	390	4.1
10.	Jen.	40	274	113	-	135	535	2.4
11.	Tak.	2	385	18	-	202	607	3.8
12.	Gow.	138	520	46	28	392	1.124	3.5
13.	U.P.	1	58	8	225	82	374	0.7
14.	Mar	180	393	24	-	247	839	4.2
15.	Pan.	249	270	23	-	181	723	3.5
16.	Bar.	593	38	30	-	175	836	6.1
17.	P.P.	45	0	11	35	28	139	1.9
18.	Sid.	279	220	26	-	181		3.9
19.	Mar.	161	125	56	3	248	493	3.8
20.	Pin.	282	102	16	18	213	631	2.6
21.	Pol.	155	62	46	110	238	611	1.8
22.	Maj.	8	26	57	-	39	130	2.2
23.	Mam.	25	64	15	123	65	292	3.8
Tot.	4,857	5,527	867	3,347	5,344	19,942	3.7	

Source : Laporan Peternakan 1975.

II.7. Production per capita of fish in South Sulawesi, specified by Kabupaten, 1976.-

Unit: Kg.

No.	Kab.	Brackish water fish	Lobster	Pond fish	Paddy field fish	River & Lake fish	Total of inland fish	Total of sea fish	Total	per capita
1.	Luw.	450	(11)	167	235	270	1,122	6,500	2,622	20.1
2.	Tat.	-	-	15	894	6	915	-	915	2.9
3.	Sop.	-	-	2	51	2,011	2,064	-	2,064	8.7
4.	Maj.	930	(15)	4	-	4,920	5,854	3,350	8,904	28.4
5.	Bon.	1,050	(65)	11	10	310	1,381	10,100	11,481	18.4
6.	Sin.	154	(8)	18	33	0	205	5,350	6,055	37.8
7.	Bul.	1,690	(110)	14	8	98	1,810	7,500	9,610	34.8
8.	Sel.	10	-	-	-	2	12	3,800	3,812	38.5
9.	Ben.	24	(1)	2	-	5	31	4,000	4,031	42.4
10.	Jen.	800	(124)	-	-	19	819	1,600	2,419	11.0
11.	Tak.	1,020	(98)	2	-	27	1,049	12,000	13,049	82.1
12.	Gow.	30	(0)	11	12	111	164	-	164	0.5
13.	U.P.	930	(23)	-	-	11	941	12,300	13,241	23.2
14.	Mar.	3,050	(90)	1	2	19	3,072	6,500	9,572	47.4
15.	Pan.	4,700	(295)	2	2	30	4,734	6,900	11,634	56.5
16.	Bar.	1,240	(50)	6	-	12	1,258	3,700	4,958	36.2
17.	P.P.	19	(3)	1	0	0	20	6,550	6,570	87.6
18.	Sid.	-	-	4	61	959	1,024	-	1,024	5.4
19.	Unr.	-	-	20	44	5	69	-	69	0.5
20.	Pin.	5,400	(234)	20	18	190	5,628	7,300	12,928	53.0
21.	Pol.	835	(18)	22	614	60	1,531	5,900	7,431	22.5
22.	Maj.	32	-	3	2	9	46	5,900	5,546	68.5
23.	Mam.	11	-	-	0	1	12	2,970	2,982	38.7
Tot.		22,375	(1,150)	335	1,986	9,076	33,772	112,320	146,092	26.6

Note : Average per capita for South Sulawesi excluding exports.
Source : Laporan Perikanan 1976.

II. 8 Monthly production of main food stuff (1974 - 1976 0

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.
R i c e :										
Rendengan	3.450	5.430	14.800	78.490	230.380	106.660	58.420	141.580	101.370	91.2430
G a d u	9.730	49.900	93.620	51.410	31.070	9.590	14.010	5.680	14.530	10.110
Ledan	720	1.220	3.080	4.460	3.560	4.340	4.760	3.810	420	90
Total :	13.910	56.550	111.500	127.360	265.010	120.590	77.190	151.320	176.320	101.630
(Rice)	(7.090)	(28.840)	(56.870)	(64.950)	(135.160)	(61.500)	(39.340)	(77.050)	(89.920)	(51.330)
Rendengan	610	7.780	17.720	69.200	343.720	116.360	60.340	120.550	305.450	193.000
G a d u	8.210	36.150	151.540	62.190	33.810	9.330	2.370	6.400	11.580	22.030
Ledan	1.350	3.980	4.360	4.290	6.310	2.450	3.290	4.710	940	20
Total	10.170	47.910	173.620	135.680	383.840	126.140	66.000	181.660	337.780	220.050
(Rice)	(5.190)	(24.430)	(38.550)	(69.200)	(195.760)	(64.331)	(33.660)	(92.650)	(172.270)	(112.230)
Rendengan	3.330	4.070	9.940	165.910	256.710	129.900	66.090	217.560	273.890	128.250
G a d u	15.290	49.660	136.590	114.320	61.390	9.220	15.690	800	3.340	21.720
Ledan	1.150	2.970	4.720	3.950	5.680	2.670	5.300	6.250	50	30
Total	19.770	56.300	151.250	281.180	323.780	141.790	87.080	224.610	277.380	150.000
(Rice)	(10.082)	(38.920)	(77.140)	(43.400)	(165.130)	(72.310)	(44.410)	(114.550)	(141.460)	(76.500)
C o r n	8.290	32.230	9.780	2.320	5.270	11.150	6.870	5.290	1.420	1.450
1975	24.960	33.960	9.120	3.230	10.440	3.190	5.860	4.960	2.260	1.340
1976	28.020	28.410	6.940	3.200	12.100	14.230	7.980	1.110	1.080	1.190
Cassava	23.000	20.980	24.410	21.490	16.990	24.010	18.840	36.430	25.540	19.260
1975	19.980	13.720	15.260	17.480	19.140	16.690	12.620	20.990	26.100	25.440
1976	18.800	18.130	19.170	13.570	15.330	15.250	19.090	21.440	19.850	19.110
Sweet potato	3.000	5.220	3.930	3.830	2.700	3.880	3.720	3.940	5.850	6.390
1975	4.230	3.760	3.780	4.000	3.290	3.780	2.800	3.800	3.610	3.490
1976	1.880	3.240	2.620	2.580	2.560	3.010	2.930	3.880	4.170	4.040

Source: The Team estimated from Laporan Pertanian 1974 - 1976

II. 8 (Continued)

	Nov.	Dec.	Total
Rice :			
Rendengan	41,050	8,410	937,420
G a d u	9,040	10,010	308,710
Ladan	40	90	26,630
Total	50,130	18,560	1,292,820
(Rice)	(25,570)	(9,470)	(649,140)
Rendengan	38,670	6,110	1,354,520
G a d u	26,590	15,550	383,560
Ladan	10	200	31,910
Total	65,270	21,860	1,269,990
(Rice)	(33,290)	(11,150)	(902,600)
Rendengan	63,160	16,690	1,335,610
Gadu	23,100	15,060	466,180
Ladan	10	150	32,930
Total	80,270	31,900	1,834,720
(Rice)	(44,000)	(16,270)	(935,710)
C o r n	2,110	8,800	94,980
	1,590	5,550	106,960
	4,090	7,120	115,470
Cassava	21,340	13,340	220,030
	18,770	19,380	229,570
	14,490	14,880	209,120
Sweet potato	5,060	2,960	50,450
	3,080	2,210	41,820
	2,750	1,560	35,120

II.9 Imports of Goods by South Sulawesi Province.

	Consumer Goods		Raw Materials & Intermediate Goods		Capital Goods		Total	
	Imports	Compo- sition	Value	Composition	Imports	Compo- sition	Imports	Compo- sition
1969	489	15.8	1,826	59.0	379	12.1	3,097	100.0
1970	1,828	21.9	4,495	53.9	2,020	24.2	8,343	100.0
1971	1,801	17.5	4,973	48.4	3,495	34.0	10,269	100.0
1972	1,198	11.6	4,993	48.1	4,179	40.3	10,370	100.0
1973	29,278	51.5	13,285	23.4	14,258	25.1	56,821	100.0
1974 *	4,676	79.6	561	9.5	638	10.9	5,877	100.0
69-73 Total	34,999	39.4	29,573	33.3	24,328	27.4	88,901	100.0

* Imports for Jan.-March at Ujung Pandang port

Source: Report of Pre-F/S for UPIE (Ujung Pandang Industrial Estate) 1975

II.10 Exports by South Sulawesi Province.

	Exports		Including	
	US\$,1,000	1970=100	Agricultural Good	Industrial Goods
1965	5,187	75		
1966	8,817	126		
1967	6,069	88		
1968	6,949	101		(N.A.)
1969	7,067	102		
1970	6,910	100		
1971	7,666	111		
1972	10,627	154	2,870	850
1973	20,028	303	4,852	3,057
1974	17,489	253	3,623	2,046

Source: Report of Pre-F/S for UPIE.

II.11 Exports (by commodity) by South Sulawesi Province

Unit: ton (A) & 1,000 US \$ (B).

Commodity	1973		1974		1975		1976	
	Quantity (A)	Value (B)	Quantity (A)	Value (B)	Quantity (A)	Value (B)	Quantity (A)	Value (B)
Shrimp	1,051	2,844	1,031	4,176	871	3,317	1,206	6,669
Food	156,210	6,124	87,698	4,256	60,226	3,049	61,875	3,352
Rice bran	68,308	2,739	53,367	2,646	45,348	2,315	46,353	2,388
Coffee	1,287	1,157	1,719	1,764	997	840	1,250	2,140
Rattan	13,238	576	15,046	761	11,882	647	18,409	1,952
Other farm prod.	2,540	1,239	3,012	1,163	2,464	843	3,439	1,854
Nutmeg	1,149	165	1,199	241	1,404	1,848	1,242	1,512
Estate rubber	1,182	606	1,326	802	1,434	666	1,385	913
Coconut cake	2,145	136	3,855	412	6,186	576	5,365	467
Leather	473	509	440	572	122	210	129	312
Gum copal	732	91	1,815	129	1,321	83	1,718	149
Rattan weavcry	6	1	25	10	66	13	97	120

(Continue)

II.11 (Continued)

Commodity	1973		1974		1975		1976	
	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
Deer horn	94	19	74	18	64	25	61	70
Sea cucumber	1,165	97	124	29	190	36	170	48
Tapioca	-	-	6,385	405	7,800	630	600	42
Buffalo & Cattle	2,210	861	2,290	718	861	358	100	33
Wood carvings			9	39		12	8	16
Art handicrafts	4	28	20	103	30	141	15	16
Peanut	1,266	397	586	186	-	-	-	-
C o r n	34,968	2,306	-	-	-	-	-	-
Coconut oil	697	97	-	-	-	-	-	-
Nutmeg oil	3	27	6	107	5	73	-	-
C l a y	-	-	-	-	7,096	497	-	-
Others	18,614	884	82,904	366	27,922	637	72,199	1,043
Total	308,323	20,927	252,890	18,910	176,298	16,826	217,280	23,202

Source: The South Sulawesi Regional Office of the Ministry of Commerce.

II.12 Change in Cargo Volume Handled at Ujung Pandang Port.

	Unit: ton				
	External Trade		Domestic Trade		Sailing vessel
	Export	Import	Export	Import	
1939	280,300	45,300	-	-	-
1942	214,500	63,700	-	-	-
1955	122,500	63,700	-	-	-
1960	25,702	42,625	67,845	233,231	-
1965	56,235	21,525	-	192,885	-
1966	65,792	26,336	-	184,825	-
1967	58,239	41,701	44,405	80,115	-
1968	52,265	48,008	63,338	226,024	60,788
1969	124,190	69,058	67,268	68,406	61,406
1970	80,926	97,723	98,081	109,992	59,126
1971	58,979	113,339	111,916	121,153	65,884
1972	74,385	181,234	140,390	121,520	51,388

Source: Port of Makassar, handbook - 1973

II. 13 Price Ratio of Flow by Distination Step

Commodities	Retail Price	Retail Margin	Middleman Margin	Farmers Price
Rice (1st)	100 %	6.5 %	- %	- %
Rice (common)	100	6.2	-	-
Maize	100		14.5	85.5
Cassava	100		44.8	55.2
Green bean	100	13.8	2.1 ²⁾	84.1
Cabbage	100	23.0	19.7	57.3
Pe-tsai	100	20.2	17.2	62.6
Onion red	100	21.5	12.0	66.5
Chilies	100		19.2	80.8
Potato	100	19.6	11.5	68.9
Tomato	100	21.7	15.0	63.3
Egg-lent	100	27.6	19.1	53.3
Cashew	100	24.3	22.8	52.9
Mango	100	58.0	24.9	17.1 ²⁾
Banana	100	21.6	32.9	45.5
Papaya	100	39.4	27.4	33.2
Pineapple	100	24.8	26.4	48.8
Coconut	100		20.8	79.2
Average	100	-	-	59.6
			40.4	(except rice)
			(except rice)	

Note : 1) Survey by Nishiyama and Tajuddin Dullah at Pasar in Ujung Pandang, for 10 days, 31 Oct - 12 Nov. 1977.

2) Appear to be unusual number

*) Transport cost included in middleman margin

II. 14. Supplied volume of food stuff in South Sulawesi Province

Year	Unit: thousands of tons.									
	Volume of products					Equivalent				
	Rice *)	Corn	Tubers	Beans	Vegetables	Fruits	Total	Tubers ²⁾	Total	Total
1964	580	321	488	31	E 37	E 115	1,622	134	1,268	1,268
1965	520	242	572	22	E 37	E 115	1,508	172	1,108	1,108
1966	536	345	526	37	E 37	E 115	1,496	144	1,143	1,143
1967	574	237	497	36	E 37	E 115	1,647	140	1,321	1,321
1969	660	228	412	39	37	115	1,491	124	1,203	1,203
1970	880	213	326	43	36	124	1,622	98	1,394	1,394
1971	875	144	319	32	36	136	1,542	96	1,319	1,319
1972	641	118	380	26	37	141	1,343	114	1,077	1,077
1973	828	337	354	40	38	139	1,736	106	1,488	1,488
1974	662	95	320	30	37	90	1,234	96	1,010	1,010
1975	920	107	271	37	37	132	1,504	81	1,314	1,314
1976	954	115	334	29	33	139	1,604	100	1,370	1,370

Equivalent: *1) Rice = paddy x 0.52

*2) Tubers= tubersx 0.3

Mark E : available data ----- the same as 1959.

Source: Estimation of the Team by
data of Diperta SulSel.

II.15. Conditions of farmers' income: Rice, in South Sulawesi, 1969 - 1976.-

Y e a r	Production per ha tons	Price per ton (thousand Rp)	Gross income per ha. (thousand Rp)
1969	1.88	35.62	66.97
1970	2.49	38.50	95.87
1971	2.31	40.37	93.25
1972	2.05	55.88	114.55
1973	2.35	69.57	163.49
1974	1.91	78.54	150.01
1975	2.85	89.66	255.53
1976	2.57	99.11	254.71

Source : BAPPEDA

II. 16 Condition of farmers' income: gorn in South Sulawesi, 1969 - 1976.

Year	Production per ha. (tons)	Price per ton (thousands Rp)	Gross income per ha (thousands Rp).
1969	0,407	17.13	6.97
1970	0,495	17,70	8.76
1971	0,431	25,03	10.79
1972	0,237	32,66	7.74
1973	0,632	33.0	20.86
1974	0,341	42.75	14.58
1975	0,391	46.60	18.22
1976	0,301	59.32	17.86

Source : BAPPEDA.

II.17. Condition of farmers' income: Cassava in
South Sulawesi, 1969 - 1976

Year	Production per ha. (tons)	Price per ton (thousands Rp)	Gross income per ha. (thousands Rp).
1969	5,277	13.81	72.88
1970	3,412	15.02	51.25
1971	3,598	16.05	57.75
1972	3,848	23.54	90.58
1973	3,726	22.10	82.34
1974	3,822	22.60	86.38
1975	3,530	28.82	101.73
1976	4,399	35.60	156.60
			(187.861)

Source : BAPPEDA

II.18. Condition of farmers' income: peanut,
South Sulawesi, 1969 - 1976.-

Year	Production per ha. (tons)	Price per ton (thousands Rp)	Gross income per ha. (thousands Rp).
1960	0.356	54.86	19.53
1970	0.478	23.71	11.33
1971	0.507	64.40	32.65
1972	0.267	99.99	26.70
1973	0.568	95.96	54.51
1974	0.317	138.85	44.02
1975	0.454	158.27	71.85
1976	0.204	184.04	37.54

Source : BAPPEDA.

II.19. Average prices of agricultural product in South
Sulawesi (1969 - 1976)

Year	R i c e Rp/kg			Soy beans Rp/kg		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	35.62	39.20	39.20	54.13	33.42	59.19
1970	38.50	42.98	43.59	60.84	59.96*	47.74*
1971	40.37	42.64	45.36	40.93	56.93	56.75
1972	55.88	60.25	50.66	70.17	74.34	82.74
1973	69.57	72.54	76.61	79.50	95.95	90.75*
1974	78.54	87.12	88.25	95.81	100.87	125.03
1975	89.66	94.58	97.15	98.16	120.57	150.57
1976	99.11	105.90	109.64	131.79	141.68	178.91

Year	C o r n Rp/kg			Green gram Rp/kg		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	17.13	18.17	24.92	46.24	63.52	59.03
1970	17.70	19.86	22.23	40.85	53.54	59.03
1971	23.03	24.18	30.66	46.62	60.20	64.84
1972	32.66*	17.71*	25.99	67.99	76.38	78.45
1973	33.00*	32.22*	30.42*	75.32	92.00	100.43
1974	42.75	41.66	43.95	105.00	107.75	140.65
1975	46.60	49.56	50.21	268.10	283.92	192.30*
1976	59.32	56.70*	59.19*	-	-	-

Year	Peanuts Rp/kg			Cassava Rp/kg		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	54.86	59.23	60.85	13.81	15.68	18.73
1970	23.71	58.63	62.64	15.02	16.43	17.39
1971	64.40	64.63	71.00	16.05	17.71	18.89
1972	99.99	85.76	89.02	23.54	25.91	26.51
1973	95.96	104.14	105.86	22.10	24.71	25.02
1974	138.85	143.84	159.30	22.60	24.86	29.71
1975	158.27	164.30	174.14	28.82	32.78	39.04
1976	184.04	183.48	201.67	35.60	41.64	52.42

Source: BAPPEDA

(Continue)

II. 19 (Continued)

Year	Sweet potato (Rp/kg)			Coconut (piece)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	14.35	18.64	20.75	9.83	11.66	17.00
1970	14.86	19.90	21.73	14.07	14.92	20.81
1971	16.34	20.77	30.58	14.91	17.50	21.71
1972	24.07	28.10	30.58	10.51	19.57	42.59
1973	22.98	28.41	30.43	24.96	28.92	36.62
1974	24.80	33.67	42.96	37.13	43.92	51.19
1975	31.85	41.16	51.29	28.13	33.06	39.42
1976	38.10	50.20	68.10	34.99	40.52	46.44

Year	Vegetables (Rp/kg)			Candlenut (Rp/kg)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	37.12	43.96	93.41	26.23	72.08	99.08
1970	49.68	49.19	52.65	63.06	88.80	112.14
1971	56.37	56.39	61.84	86.83	96.95	158.72
1972	51.12	67.66	68.13	88.11	114.19	155.62
1973	72.83	81.80	89.51	124.33	125.08	196.90
1974	86.84	78.65*	96.74	131.45	159.24	203.94
1975	102.93	109.40	133.98	170.22	183.12	226.80
1976	119.12	137.64	155.68	218.88	237.09	250.24

Year	Fruits (Rp/kg)			Coffee - (Rp/kg)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	23.60	24.50	29.10	208.33	313.75	447.29
1970	25.05	25.88	24.39	266.66	396.75	536.50
1971	29.40	29.44	32.12	286.66	476.65	557.65
1972	36.80	27.13	40.61	216.08	463.47	608.94
1973	38.83	36.59	42.16	281.98	446.77	560.07
1974	35.35	38.78	43.87	304.62	443.87	1393.25*
1975	67.50	75.05	54.93*	367.40	553.50	643.83
1976	44.57	81.95	70.08	582.07	584.06	885.88

Source : BAPPEDA

(Continue)

II. 19 (Continued)

Year	Nutmeg (Rp/kg)			Kapok (Rp/kg)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969		350.00	430.00	45.0	79.28	83.75
1970	200.00	360.00	441.00	51.25	82.00	90.00
1971	-	400.00	459.50	63.25	94.36	100.00
1972	-	450.00	460.00	71.46	100.50	108.00
1973	325.00	475.00	468.33	86.01	112.40	110.16
1974	690.00	696.00	721.00	320.32	198.63	300.20
1975	720.00	722.00	747.00	107.60	246.98	287.02
1976	823.00	918.00	857.40	141.31	688.77	358.88

Year	Clove (Rp/kg)			Sugar cane (Rp/kg)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	-	-	-			
1970	-	-	-			
1971	-	-	-			
1972	-	-	-			
1973	5625.0	4562.0	4562.5			
1974	3875.0	2906.7	3585.0	10.50	9.16	13.25
1975	3642.0	3731.3	3945.0	6.78	13.47	15.60
1976	3668.8	4378.3	3937.5	13.50	26.25	20.50

Year	Pepper (Rp/kg)		
	Farmer	Village	Kabupaten
1974	648.00	714.79	681.46
1975	670.00	741.57	760.27
1976	692.00	819.38	812.81

Year	Tobacco (Rp/kg)			Sheep (Rp/head)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	80.0	102.5	120.0	363.3	432.6	1640.0
1970	99.2	120.0	140.0	465.2	510.9	2000.0
1971	108.3	150.8	175.8	519.6	624.4	2150.0
1972	153.8	188.9	221.3	713.0	769.6	2166.7
1973	239.0	228.8	280.0	823.3	1163.1	2350.0
1974	215.9	225.9	281.8	1728.3	1902.2	2125.0
1975	238.5	446.9	208.4*	2119.6	2218.7	7250.0
1976	261.9	312.5	363.5	3347.8	3309.6	9000.0

(Continue)

II. 19 (Continued)

Year	C o w s (Rp/head)			G o a t s (Rp/head)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	8738.4	9750.0	13611.0	1537.0	2020.7	2461.0
1970	11132.4	12193.9	17111.0	1771.8	1860.9	2844.7
1971	12108.7	14146.6	19888.0	1513.0	3108.7	3132.5
1972	17587.0	18056.5	24842.0	2200.0	2204.5	3228.0
1973	20608.7	21792.5	31000.0	3015.2	3028.3	4077.8
1974	25856.7	29478.3	38350.0	4217.4	4243.4	6126.3
1975	33565.2	34217.3	46250.0	5195.7	5489.1	7918.8
1976	9130.4	34478.3	57425.0	6734.8	6969.4	8761.1

Year	B u l l s (Rp/head)			P i g s (Rp/head)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	11097.8	11413.1	16306.3	2663.0	3837.0	11350.0
1970	12173.9	16200.0	19486.1	3065.2	3869.6	15700.0
1971	14434.8	16369.6	23261.1	3652.2	4089.0	18400.0
1972	20000.0	20108.7	26052.0	5043.5	5478.3	20900.0
1973	22546.0	26087.0	50236.7	5347.8	5630.4	19600.0
1974	28456.5	32906.0	43368.7	6152.2	6478.3	26300.0
1975	38217.4	39543.5	50631.0	7065.2	8369.6	30800.0
1976	44478.3	46566.2	64210.0	8413.4	10065.0	34700.0

Year	H o r s e s (Rp/head)			C h i c k e n (Rp/head)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	7282.6	10543.0	14150.0	105.4	115.3	169.4
1970	8391.3	8967.4	16200.0	124.5	125.4	201.4
1971	8545.4	10130.4	18183.0	134.8	152.2	280.0
1972	11673.9	16934.7	20313.0	123.9	185.0	389.0
1973	15750.0	16739.1	28796.0	253.3	257.2	415.6
1974	18758.7	30695.1	32906.0	318.7	356.7	573.4
1975	21817.8	23413.0	39000.0	412.0	463.5	757.5
1976	29739.1	29891.3	47265.0	490.7	495.7	881.2

(Continue)

II.19 (Continued)

Year	D u c k s (Rp/head)			Lobster (Rp/head)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	63.1	82.5	152.1	287.22	351.56	357.50
1970	75.7	105.2	183.8	312.22	347.55	421.88
1971	88.1	125.7	200.2	396.00	555.25	635.51
1972	101.7	156.7	252.8	550.50	637.25	717.22
1973	152.4	105.3	302.7	706.50	779.75	821.66
1974	182.8	263.9	375.8	717.27	851.20	984.37
1975	229.8	343.4	460.5	977.27	983.20	1012.20
1976	258.7	389.1	493.5	1258.75	1256.20	1272.20

Year	Sea fish (Rp/kg)			Inland fish (Rp/kg)		
	Farmer	Village	Kabupaten	Farmer	Village	Kabupaten
1969	120.00	139.11	187.58	91.00	104.00	104.00
1970	146.00	164.61	192.20	105.20	116.00	130.00
1971	148.00	180.07	204.50	114.00	127.00	138.00
1972	165.50	183.11	202.79	133.00	140.00	149.00
1973	200.35	222.30	244.83	146.00	159.00	185.00
1974	204.59	224.96	231.57	165.00	176.00	195.00
1975	267.30	250.85	302.23	190.00	212.00	222.00
1976	267.00	296.96	339.45	207.00	237.00	270.00

Year	Milk fish (Rp/kg)		
	Farmer	Village	Kabupaten
1969	129.10	148.15	226.77
1970	147.72	166.40	255.63
1971	156.67	169.29	259.84
1972	195.83	208.38	297.38
1973	223.75	162.29	329.76
1974	243.75	269.88	359.12
1975	293.75	226.58	396.27
1976	571.25	365.25	452.73

Source : BAPPEDA.

II.20. Fluctuation of price of unmilled rice in 1976 and 1977

Kabupaten	P r i c e Rp/Kg.														
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
L u w u	-	-	-	-	-	60.40	57.08	54.31	53.75	55	56.25	55.09	55.36	58.41	58.41
Soppeng	45	65	-	61.86	63.49	65.92	67.27	63.58	65.03	64.11	64.11	65.16	-	-	68.84
Bulukumba	57.50	57	57.50	68.50	68.50	68.50	68.50	68.50	69	69	69	69	-	-	-
G o w a	58.50	67.50	67.50	60	61.25	61.66	62.50	65.55	-	-	68.51	68.51	-	-	-
Pinrang	55	54	52.66	59.30	59.30	59.30	58.19	64.83	64	63.38	61.17	61.17	-	-	65.30
Polmas	52	64	64	65	65	65	65	65	65	65	65	65.50	65.13	65.75	65.50
Average	53.60	61.60	60.14	61.93	63.51	63.28	64.20	63.24	63.20	62.70	64	64.07	60.24	62.08	64.55
Index	100	114	112	113	118	118	119	118	118	117	119	119	112	116	120

Note : Dry milled rice

-) No. transactions

x) No report

Source: Dinas Pertanian Rakyat, Sulawesi Selatan.

II.21 Fluctuation of price of medium rice, South Sulawesi Province (1976/1977)

Kaupaten	Jan.	Feb.	Mart.	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mart.
L u u	100	120	120	122.50	120	113	102	102	102	102	102	102	96	108	108
Soppeng	103.25	103.25	103.25	98.75	100	106.25	100	100	100	100	115.0	118.75	113.75	118.75	112.50
Bulukumba	85	95	100	87.5	80	100	100	100	115	112.5	112.5	118.5	125	125	131.25
G o w a	112.50	118.50	118.50	115.62	106.25	106.25	112.5	112.30	118.50	118.50	112.5	118.75	125	170	140
Pinrang	112.50	112.50	112.50	10.25	106.25	106.25	106.25	100	100	100	100	106.25	125	137.50	118.75
Polmas	110	100	100	95	95	95	95	95	95	105	100	115	110	120	120
Average	103.87	108.21	109.08	104.27	101.25	104.46	101.62	101.55	106.75	105.50	107.10	112.21	116.62	129.87	121.75
I n d e x	100	104	105	100	97	100	98	98	103	101	103	108	112	125	117

Source : Dinas Pertanian Rakyat , SulSel.

II.22. Retail prices of medium rice, Ujung Pandang municipal, 1970 through 1975.

No. Year	P r i c e R p./Kg.												Average
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
1. 1970	55	57.50	58	55	47.50	42.50	42.50	45	42.50	42.50	42.50	46	49.10
2. 1971	45	47.50	42.50	42.50	45	47.50	47.50	46	46.50	47	51	51	46.60
3. 1972	51	51	50	46.50	45	38.50	47.50	55	55	80	80	80	96.60
4. 1973	95	70	65	70	70	65	65	65	60	50	85	90	70.80
5. 1974	95	90	81.25	81.25	80	80	95	95	90	95	95	100	89.80
6. 1975	130	120	130	130	120	140	135	95	95	100	105	110	117.50
Average	78.50	72.67	71.12	70.87	69.17	69.75	72.10	66.80	64.80	69.10	76.40	79.90	71.73

Source: Data from Diperta SulSel.

II.23-1. Agricultural Production in South Sulawesi

	Production (tons)					Product-	Value
	1968	1969	1970	1971	1972	ion(tons)	(Rp.1000)
						1973	
Paddy field(ha)	459282	466869	480280	481944	359170	-	-
Flowed field(ha)	50414	50610	49840	41754	20493	-	-
Rice(unhulled)	1279484	1201489	1625927	1621412	1205860	1592471	56930
M a i z e	287451	316061	212767	144449	117842	336980	10915
Tapioca	398380	341217	267073	265597	315744	295484	6536
Peanut	14959	18438	21041	14206	8697	22704	2687
B e a n s	4295	5928	4628	2817	1950	4199	462

Source : Pre-feasibility survey for UPIE, 1975

II.23-2. Production of Major Cash Crops in South Sulawesi (1973)

	Production	Unit	Unit price	Value
			Rps./Kg	(Million Rps)
C o p r a	1,000 tons	115.5	155	17902
Tobacco	1,000 tons	3.8	210	790
Coffee	1,000 tons	7.8	380	1442
Kemiri	1,000 tons	10.1	206	2087
K a p o k	1,000 tons	2.2	293	630
Pepper	tons	105	850	89
C l o v e	tons	7	950	7
Nutmeg	tons	5	438	2
F l a x	1,000 tons	0.5	11.100	5336

Source : Pre-feasibility study for UPIE, 1975.

II.24. Fishery in South Sulawesi Province (1968-1973)

	<u>Sea fish</u>			<u>Fresh water fish</u>	
	<u>Production</u> 1,000 tons	<u>Unit price</u> Rps/ton	<u>Value</u> Million Rps	<u>Fish</u> tons	<u>Shrimps</u> tons
1968	86	19.626	1.688	23.808	80
1969	85	25.200	1.125	24.108	182
1970	92	29.945	2.755	24.500	160
1971	97	49.829	4.833	27.320	207
1972	90	55.000	4,950	21,994	531
1973	94	90.000	4,860	26,636	1,142

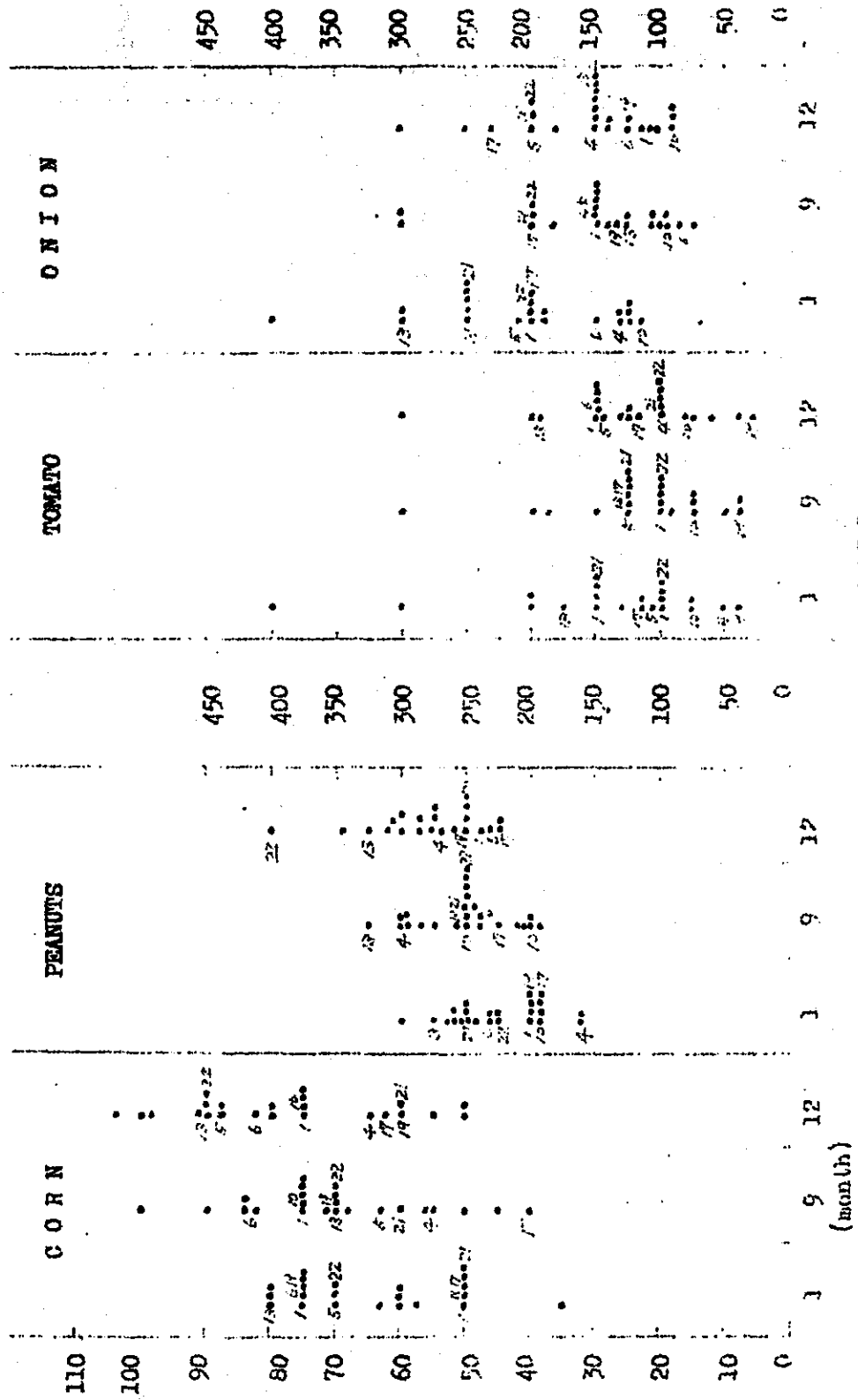
Source : Pre-feasibility study for UPIE, 1975

II.25 Forestry Production in South Sulawesi Province

	<u>Production</u> (m ³)	<u>Unit price</u> Rps	<u>Value</u> Million Rps
Kayu Sipate	40.645	4,988	202
Kayu Agathis	11.265	11,542	132
Kayu mixed	86.702	4.776	414
Kayu Bakan	4.751	3,812	18
Rotan	3,512	152,719	536
Copal/Demar	4,34 ,715	415	297
Lain2 penghasilan	4,343,694	1,547	6,717
Total:	4,491,285	-	8,337.

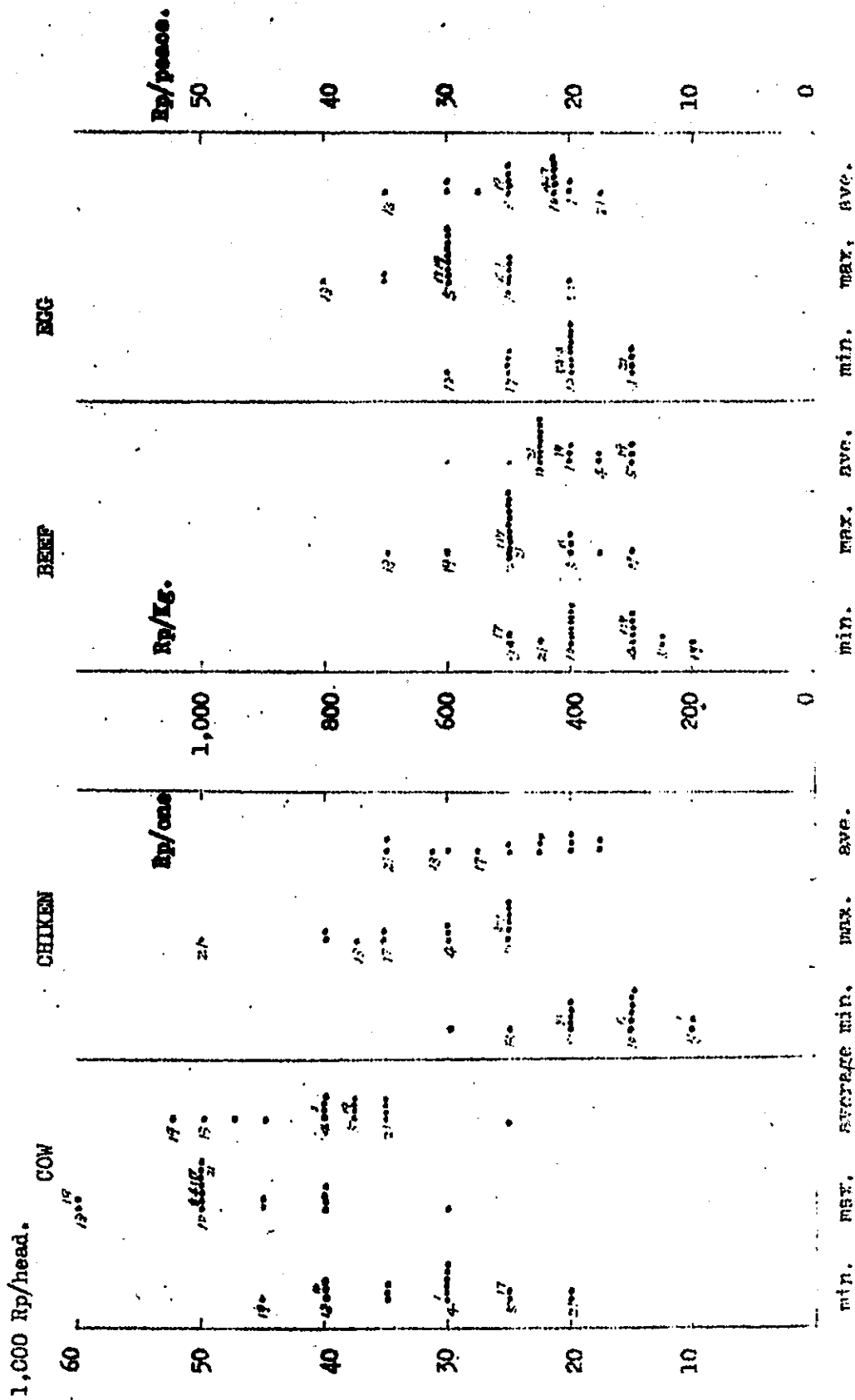
Source: Pre feasibility study for UPIE, 1975

II.26. Price fluctuation by commodity and Kabupaten (1976)



Source: Data from Diperta Sulsel.

II.27. Price fluctuation by commodity and Kabupaten (1975)



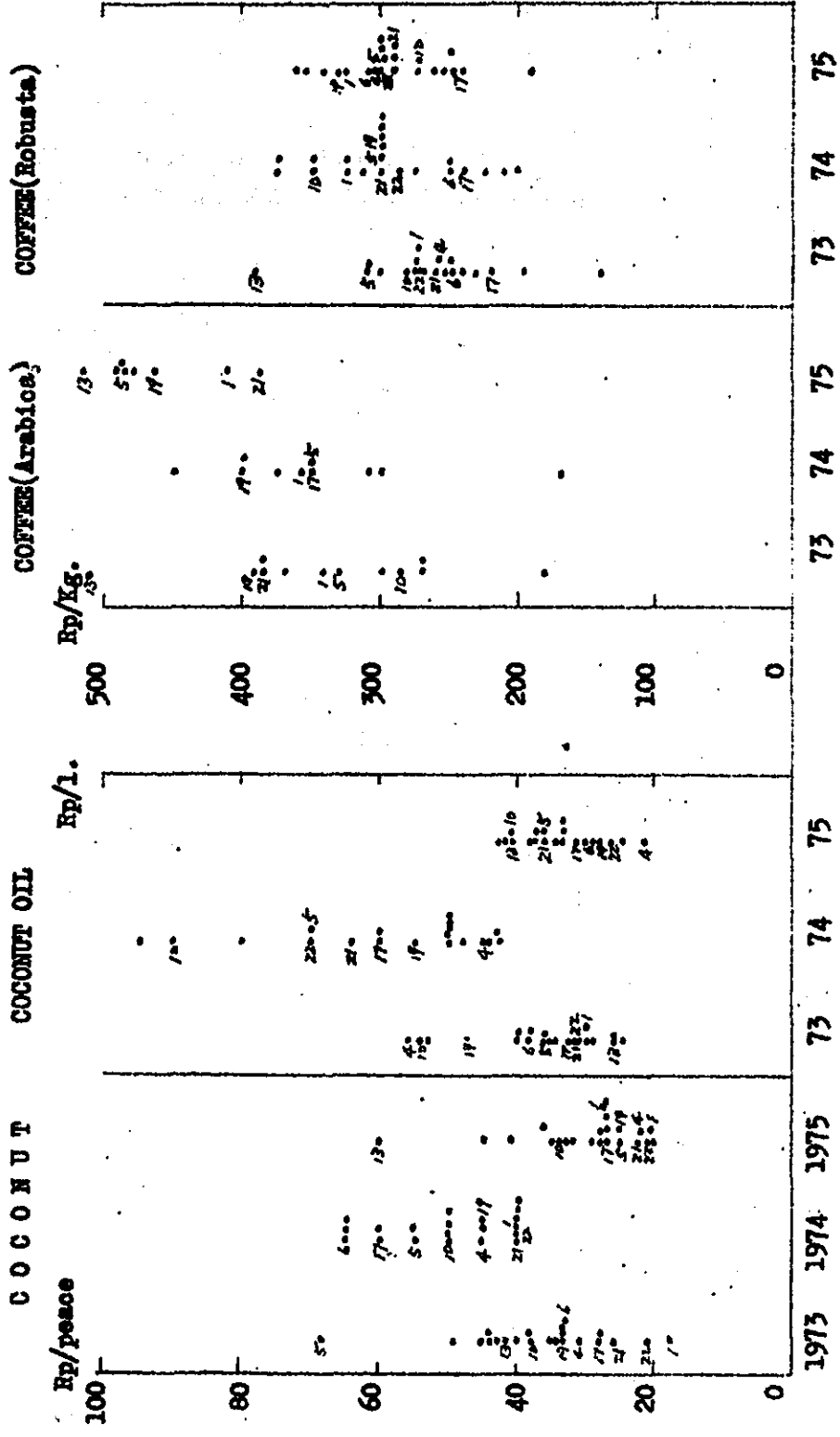
Source: Data from Diperta Sulsel.

II.28. Price fluctuation by commodity and Kabupaten (1975, Sep. - 1976, Mar.)

Commodity	Rp/Kg			Rp/Kg			Rp/Kg			Rp/Kg		
	9	1	3	9	1	3	9	1	3	9	1	3
Milk Fish	50	60	70	100	110	120	130	140	150	160	170	180
Ikan Kembung	100	110	120	130	140	150	160	170	180	190	200	210
Ikan S. Siam	100	110	120	130	140	150	160	170	180	190	200	210
Ikan Teri	100	110	120	130	140	150	160	170	180	190	200	210

Source: Data from Diperta SulSel.

II.29. Price fluctuation by commodity and Kabupaten (1973 - 1975)



Source: Data from Liperta Sulsel.

III

INFORMATION FOR THE COMMUNICATION AND
TRANSPORTATION IN SOUTH SULAWESI PROVINCE

REFERENCE INFORMATION FOR
CHAPTER 6.2. IN VOLUME II

(Excerpted from Volume 3 of Interim Report
of SRDS BY PERMISSION OF THE TEAM SRDS)

6.2. Communication and Transportation

More particular report about this section in this region was written by the team of Canadian and Indonesian Counterparts. The following is and quoted from the report.

The Province has the largest Sea port (at Makassar) and the largest airport (at Hasanuddin airport near Ujung Pandang Cities) in the whole of Hartern Indonesia. Ujung Pandang therefore has good sea as well as its connections to most major business and administrative centres in Indonesia.

although larger trade and service centres in the Province are well served in terms of transportation, such unfortunately is not the case with many region which have been isolated both in terms of land communication. Sea transportation exists in these case, but the service is inadequate. The main challenge to the transportation planner is how to develop both road and sea communication in an optimal manner.

6.2.1. Road transportation

Road transportation relation to agriculture in the province is summarized as follows.

i) The province has a total road network of 6,483 Km of which 583 Km were state roads, 1,200 Km were provincial road, and the rest (4,200 Km) were country roads. Some 1,118 Km of state and provincial road, and unknown length of country roads are of damaged and heavily damaged.

Table 1. Roads in Sulawesi Selatan by Jurisdiction and natures of surface, 1976.

Jurisdiction	Road Surface			Total	
	Asphalt	Gravel	Earth		
State Roads (Km)	320	127	136.2	583.2	
(% to total)	54.9	21.8	23.3	100	
Provincial Roads (Km)	849	362	489	1,700	
(% to total)	49.9	21.3	28.8	100	
State &					
Provincial Roads (Km)	1,169	489	625.2	2,283.2	
(% to total)	51.2	21.4	27.4	100	
Jurisdiction	Road Condition				Total
	Good	Fair	Damaged	Heavily Damaged	
State Roads (Km)	227.5	90.5	129	136.2	583.2
(% to total)	39.0	15.5	22.1	23.4	100
Provincial Roads (km)	221	626	364	489	1,700
(% to total)	13.0	36.8	21.4	28.8	100
State &					
Provincial Roads (Km)	448.5	716.5	493	625.2	2,283.2
(% to total)	19.6	31.4	21.6	27.4	100

Source : Dinas Pekerjaan Umum, Sulawesi Selatan, Ujung Pandang, Personal Communication, October, 1976.

Notes : For particulars reference to part D of the following report, Sulawesi Regional Development Study by Canadian International Development Agency (S.R.D.C.).

ii). a latest inventory of bridge condition in the province was unavailable.

Based on a 1974 inventory about 70 % of total bridge length on state and provincial roads was damaged.

iii). Vehicle ownership was found to be poorly correlated with road condition. additional factors such as income levels, availability of other modes of transportation, and sociological considerations need further investigation.

Table 2. Distribution of motorized vehicles by Kabupaten, in South Sulawesi Province,

No.	Kabupaten	'Car, Jeep, St. Wagon, Motolette	'Bemo & Bus	'Truck and Pick-Up	'Motor Cycles		'Total Vehicles		Remarks
					'Cycles	'Cycles	'Excluding Motor Cycles	'Including Motor Cycles	
1.	Bantaeng	9	1	-	206	11	217		
2.	Barru	15	9	25	322	49	371		
3.	Bone	24	20	129	1,103	176	1,279		
4.	Bulucumba	8	-	16	359	24	383		
5.	Enrekang	11	-	21	244	32	276		
6.	Gowa	66	20	113	494	205	704		
7.	Jeneponto	15	5	30	249	50	299		
8.	Luwu	47	22	102	445	31	526		
9.	Majene	8	-	11	177	19	196		
10.	Mamuju	5	-	2	85	7	92		
11.	Makassar	34	40	69	277	145	422		
12.	Pangkajene	30	33	128	566	194	760		
13.	Pinrang	104	11	172	1,408	207	1,615		
14.	Polewali	11	2	11	481	24	505		
15.	Selayar	6	-	9	346	18	364		
16.	Sidrap	14	6	51	775	71	846		
17.	Sinjai	9	-	135	228	144	372		
18.	Soppeng	60	33	96	799	189	988		
19.	Takalar	11	-	11	253	28	281		
20.	Tana Toraja	31	20	88	156	72	228		
21.	Wajo	41	9	74	782	126	908		
22.	Kodya Pare2	139	12	135	773	295	1,068		
23.	Kodya Ujung Pandang	4,507	969	4,593	30,918	3,939	10,855		
				76.3	74.6	-	76.4		
Kodya Ujung Pandang as % of total:		88.2	80.0	76.3	74.6	-	76.4		

Source: LIAJR, Sulawesi Selatan, Personal Communication, October 1976.

iv) Public carries, both cargo and passengers, showed a larger proportion of older vehicles than the private carries, and then almost all the vehicles (private on public carries) in the province had a capacity of 3 tons or less.

Table 3 Distribution of trucks in the South Sulawesi Province by capacity, 1975

capacity Kg	Public Carries		Non-Public Carries	
	No. of Trucks	% of Total	No. of Trucks	% of Total
0 - 500 ..	845	31.8	703	26.2
500 - 1,000	468	17.7	795	29.6
1,000 - 2,000	694	26.2	673	25.0
2,000 - 3,000	636	24.0	501	18.6
3,000 - 4,000	5	.2	12	.5
4,000 +	2	.1	4	.1
T o t a l	2,650	100.0	2,688	100.0

Source: LIAJR, Sulawesi Selatan, Personal Communication, October 1976.

Table 4 Distribution of selected types of Vehicles by age, South Sulawesi Province, 1975

Age of vehicle in years	Vehicles Carrying Passengers				Vehicles Carrying Cargo			
	Public Carriers		Non-Public Carriers		Public Carriers		Non-Public Carriers	
	No.	%	No.	%	No.	%	No.	%
0 - 3	421	39.4	78	42.4	556	21.0	974	36.2
4 - 6	143	13.4	39	21.2	604	22.8	824	30.6
7 - 9	54	5.1	14	7.6	186	7.0	260	9.7
9 & over	449	42.1	53	28.8	1,304	49.2	630	23.5
Total, 1,067	100.0	184	100.0	2,650	100.0	2,688	100.0	

Source: LIAJR, Sulawesi Selatan, Personal Communication, October 1976.

v). Traffic flows between selected points (12 stations only) and number of goods movement through 8 check point weighting scales are shown in the following tables. Main traffic corridors in the province are between Ujung Pandang and Maros, and between Ujung Pandang and Sungguminasa. *1.

*1. Traffic statistics in South Sulawesi province are collected by the De-

partement of Public works with the help of flowing types of counting stations :

Class A Stations (count traffic 365 days a year), Class B stations (6 times a year for a period of one week each time), Class C stations (7 times a year for a period of one day only each time).~

Table: 5 Traffic flow (Average daily traffic) between Selected points in South Sulawesi Province 1972 - 1975

Link	From	To	Station No.	Average Number of Bus, Truck, and passenger Vehicle per Day			
				1972	1973	1974	1975
U. Pandang	-	Maros	A 001	2,847	2,716	6,569	3,666
U. Pandang	-	Sungguminasa	C 201	1,523	2,067	2,386	4,293
Maros	-	Pangkajene	C 002	883	1,057	1,046	1,851
Barru	-	Pare-Pare	B 004	456	488	527	731
Pirang	-	Polewali	B 231	191	190	194	252
Majene	-	Polewali	C 232	144		146	126
Majene	-	Mamuju	C 233	0	2	0	0
Makale	-	Palopo	B 009	150	215	191	230
Palopo	-	Bone-Bone	C 010	291	111	120	80
Makale	-	Enrekang	C 008	68	71	93	131
Sinjai	-	Matampone	C 210	248	112	118	138
Sinjai	-	Bulukumba	C 206	69	75	70	81
Sungguminasa	-	Malino	C 207	84	113	128	154
Sungguminasa	-	Takalar	C 202	425	905	946	1,135
Takalar	-	Jeneponto	B 203	245	315	251	364
Soppeng	-	Sidrap	C 228	99	62	74	87
Wotu	-	Bdr. Sulawesi					
		Tengah	C 012	0	0	0	2

a Suspect error in the number of trucks reported.

Source: Dept. P.U.T.L. Highway Planning Team, Jakarta, (Data taken from maps for each year produced by the Departemen showing traffic counts).

Table: 7 No of Trucks and Volume of Cargo Carried through
 Various IIAJR check points, 1975

Check Point	No. of Trucks		Volume of Cargo (ton)		Weight/Truck (ton)	
	Entering;	Leaving :	Entering ;	Leaving :	Entering ;	Leaving
Maccopa	18,359	11,390	77,227	51,194	4.21	4.49
Sungguminasa	12,418	4,340	51,709	18,228	4.16	4.20
Lumpue	6,723	6,405	33,828	30,628	5.03	4.78
Sidrap	2,491	5,683	11,813	24,549	4.74	4.32
W a j o	828	1,421	2,925	5,474	3.53	3.85
Bantaeng	2,141	1,988	10,345	9,391	4.83	4.72
Palopo	2,980	2,247	12,988	9,764	4.36	4.34
Makalo	5,122	1,677	21,127	6,798	4.12	4.05
Polewali	1,130	2,415	4,623	8,202	4.09	3.40

Source: IIAJR, Sulawesi Selatan, Personal Communication, October 1976.

vi) Many regions in the province seem to have poor load transportation when compared with respect to population and agricultural areas. These regions include Kabupaten Mamuju, Sinjai, Polmas, Takalar and Selayar. This further constrains the development of agricultural activity, since the production is heavily dependent upon local consumption.

6.2.2. Factors affecting demand for transportation and transportation cost.

Since demand for transportation is a derived demand, two sets of conditions can be identified affecting it : One of these may be called the necessary condition, which is the presence of an economic potential of region-potential to support a population base by gainful employment in various primary, secondary, and tertiary industries.

The second factor could be called a sufficient condition for transportation demand. This condition has its base in the theory of comparative advantage. Two regions in order to trade (and there by use transportation service) must have some comparative advantage in the production of two different products. This is reflected in the relative prices of the product in the two regions. The cost of transportation therefore becomes a major factor in deciding whether that trade shall occur or not, and thereby indirectly determine the demand for transportation service.

The latter factor - cost of transportation was investigated further by the team of Canadian and Indonesian Counterparts. It is summarized as following.

Tariff rates for passengers have increased two times during 1969 - 1975 whereas the cargo tariff jumped over 2 times by LLAJR. These rates in 1975 were Rp. 4 per passenger per Km, and Rp. 40,- per ton of cargo per Km. i.e.

	'distance'	Turney	'	oargo
Ujung Pandang - Pare2'	155 Km'	620 Rp/person	'	6200 Rp/ton
Ujung Pandang - Ma-	'	'	'	'
jene	302 Km'	1,208 "	'	12,080 "

especially, the tariff rate for cargo has increased 166 percent in 1975 over 1969 as shown in Figure. It is interesting to note that the rate authorized by Dolog for transporting rice between an two points in the province is only Rp. 32,- per ton per Km. Which is lower than the rate by LLAJ. This rate of Rp. 32,- is used for Dolog owner truck as well as for

private trucks chartered by Dolog.

In the case of cargo tariff the actual rate, as reported by LIAJ is lower than the regulated tariff. For example, in 1975 although the regulated tariff was Rp. 40.-/Km. per ton, the actual rate was only Rp. 25.-/Km per ton. It is unclear how the actual rate is determined and whether or not there are variations in the actual tariff rate according to difference in terrain of the road, traffic density, and continuity volume transported. However, in addition the license and registration fees for a trucks, if a truck hauls cargo say between Kabupaten Sidrap and Ujung Pandang, it has to pay the following extra charge.

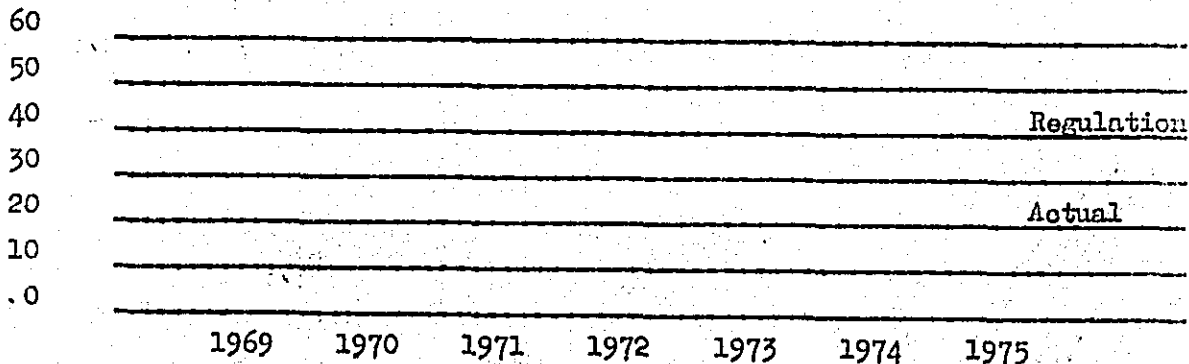
Charge at check point Sidrap		Rp. 2,000.-
" " Pare-Pare		Rp. 4,000.-
" " Maccopa		Rp. 4,000.-
" " Panaikang		Rp. 3,000.-
Retribusi Paid at Sidrap		Rp. 400.-
" " Pare-Pare		Rp. 300.-
" " Maros		Rp. 500.-
" " Ujung Pandang		Rp. 500.-
Total:		Rp. 14,700.-

if one takes an average load of 3 ton of cargo, it would be close to Rp. 5,000,- per ton, or for distance of 180 Km, or more than Rp. 27.8 per ton per Km. Compared to the actual traffic rate for cargo, this charge per ton per Km. is higher than the tariff rate it self.

Figure: 1 Tariff for cargo, South Sulawesi Province, 1969 - 1975.

Cargo tariff (Rp./Ton per Km)

Regulation & Actual



6.2.3. Sea Transportation

Sea transportation relating to agriculture is summarized as follows:

i). In the province there are two major ports -- Makassar and Pare-Pare. Makassar serves almost whole of eachtern Indonesia, and is well connected with ports in Java. Pare-Pare port is a regional port and its role is to serve the agricultural area in the north west part of the province.

Table 8 Ports in South Sulawesi Province, by class of ports.

Class	Name of the port
Class I	Makassar
Class II	-
Class III	Pare-Pare
Class IV	-
Class V	Bajoe
	Polewali
	Majene
	Selayar
	Mamuju
	Palopo
	Malili
	Jampea
Orther Ports	Barru
	Jeneponto
	Bulukumba
	Sinjai

a Managed by Kabupaten authorities

Source: Kadapol VI, Ujung Pandang, Personal Communication,
March 1977.

Table: 9 South Sulawesi: Port Facilities, 1976

Port	Wharf or Pier		Construction	Storage Godowns		Total in M ²
	Length (M)	Depth of water (M)		Size in M ²	Capacity in ton	
Makassar	1,980	7 - 9	Concrete	42,000	84,200	23,000)
	336	2 . 5	Timber			2,100)
	280	-	-			6,000)
	28	2 . 5	Timber			
Pare-Pare	35)	7 . 5	Concrete	1,216	1,800	2,500
	50)		"			
Majene	-	-	-	1,740	3,420	16,100
Palopo	55.5	5 . 5	Concrete	200	-	1,500
Polewali	a	-	-	-	-	-

a Pier owned by the local government exists, but no information on it is available.

Source: Kadapol VI, Ujung Pandang, Personal Communication, March 1977.

Table: 10
Cargo Loaded and Unloaded at Major/Minor in
South Sulawesi 1971 - 1975

Port	1971		1972		1973		1974		1975		Average 1971 - 1975		Total throughout
	Loaded	Un-loaded	Loaded	Un-loaded	Loaded	Un-loaded	Loaded	Un-loaded	Loaded	Un-loaded	Loaded	Un-loaded	
.....													
Makassar	200.1	291.2	223.6	363.2	512.3	981.7	464.7	589.5	1215.2	694.3	523.2	584.1	1,107.3
Pare-Pare	53.2	29.0	21.0	29.0	33.7	86.0	28.4	43.0	32.0	74.0	33.7	52.2	85.9
Majene	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	5.2;	0.7;	-;	-;	-;
Selayar	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	8.3;	2.3;	-;	-;	-;
Bajoe (Bonneng)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	3.3;	0.5;	-;	-;	-;
Polewali	7.3;	0.3;	5.6;	0.5;	3.6;	0.5;	2.2;	0.4;	7.5;	0.3	5.2;	0.4;	5.6;
Palopo			2.8;	3.2;	2.6;	5.0;	N.A.	6.8 (Average)					
Bulukumba			1.-;	1.5;	0.2;	1.7;	110;	526;	1.7 "				
Bantaeng			0.0;	7.-;	0.1;	1.1;	N.A.	1.0 "					

N.A. = Not Available.

Source: - Kadapol VI, Ujung Pandang for the ports of Makassar and Pare-Pare. (Personal Communication, March 1977).

For other ports, office of the Bupati, Personal Communication, October 1976.

- Biro Pusat Statistik: Statistik Bongkar Muat di Pelabuhan Indonesia, Jakarta, 1975.

ii). Major Port facilities exist only at the port of Makassar at Pare-Pare and Palopo facilities are in much smaller magnitude than at Makassar. At many feeder ports, such as Polewali, Majene, Bantaeng, facilities are very poor, and quite often damaged.

iii). At Makassar, probably like other ports in the province, there is a very low utilization of facilities has shown table 10.

iv). The main commodities that are exported (or imported) or traded with other island from various port in South Sulawesi Province are agricultural commodities as following table (11).

From Makassar the main commodities loaded for inter-island trade are wheat flour, Cement and rice. Those unloaded included petroleum products, kerosene and sugar. Wheat is imported for milling at Ujung Pandang and then flour is distributed to other region of eastern Indonesia. Generally speaking, South Sulawesi Province is a rice-surplus area; however, in certain year small amounts of rice are needed and this need is fulfilled through imports.

From Pare-Pare the major export include cattle (live) to Singapore and Hongkong and Bran, whereas the main imports are jute, cement and fertilizer. Live cattle are handled through Pare-Pare because it is located near the cattle ranching area in Kabupaten Pinrang, Sidrap and Enrekang. From Selayar the main commodities are copra, and nutmeg. Whereas kerosen, cement and rice are brought in.

For the ports of Makassar and Pare-Pare, a more detailed breakdown by commodities for the year 1975 - 1976 is shown in table (12).

v). Lack of port facilities and lack of supporting infrastructure in the hinterland are the two major problems facing sea transportation in the province.

One of the major problems at the port of Makassar is the depth of water (which is only 7 - 8 meters resulting in the berthing of vessel up to 10,000 d.w.t. only). This means that larger ship than 10,000 d.w.t. must either go to Bitung, or Surabaya, or must be unloaded in the by before berthing.

The second problem at the port facilities. Sukarno pier is used for only 54 % of its capacity, and the transit shed (godowns) for only 15 % of capacity. This has meant a larger cost to central government, which must pay the maintenance and rehabilitation costs of port facilities.

Table: 11 Nature of Products Being Handled at Various Ports in South Sulawesi

1973 - 1974

Port	Trade/Level	Commodity Handled with Volume in Parentheses in Tons		
		First Highest	Second Highest	Third Highest
Makassar	II Discharged	Other Petro (140721)	Kerosene (82253)	Sugar (15432)
	ITL Loaded	wheat products (157433)	Cement (45417)	Rice (18038)
	ITL Discharged	Wheat (296138)	Rice (90808)	Sugar (25802)
	Loaded	Wood (96841)	Bran (73958)	Rattan (13169)
Majene	II Discharged	Copra (176)	Salt (72)	Wood (34)
	Loaded	Copra (1510)	Rice (57)	Kepok (8)
Selayar (Benteng)	II Discharged	Kerosene (506)	Cement (287)	Rice (205)
	Loaded	Copra (3956)	Sugar (776)	Nutmeg (55)
Bulukumba	II Discharged	Salted fish (73)	Copra (26)	-
	Loaded	Kerosene (456)	Rice (216)	Salt (154)
Bantaeng	II Discharged	Salted disif (4)	Copra (3)	-
	Loaded	Salt (981)	Kerosene (51)	Rice (33)
Bajoe	II Discharged	Wood (343)	Rattan (117)	Salt (60)
	Loaded	Cement (678)	Sugar (340)	Rice (315)
Pare-Pare				
1)a	II Discharged	Kerosene (58232)	Paddy (1787)	Fertilizer (1000)
	Loaded	Rice (17329)	Sacks (3113)	Stones (2018)
	ITL Discharged	Jute (2000)	Cement (1000)	Fertilizer (1000)
	Loaded	Cattle (live) (2150)	Bran (1259)	-

II = Inter-Insular Trade

Source : Biro Pusat Statistik,

ITL = International Trade,

Statistik Bongkar Muat Barang di Pelabuhan Indonesia,

Note: 1)^a For the year 1975, Data for (Jakarta 1975)

1973-1974 were not available.

For Pare-Pare, annual Report of the port of Pare-Pare, 1975.

2) How of live beef cattle.

Table: 12 Volume of Ports, activity, at Ports of Makassar and Pare-Pare by commodities, and trade type, 1975 - 1976

Commodity	Volume Unloaded at		Commodity	Volume Loaded at	
	Makassar	Pare-Pare		Makassar	Pare-Pare
<u>Inter-Island Trade</u>	Tons tons		
Sugar	24,815	-	Rice	41,199	17,324
Fertilizer	14,488	1,000	Wheat	70,891	438
Wood	21,732	540	Cement	44,419	262
Textile	9,307	-	Fertilizer	6,000	-
Salt	19,407	40	Salt	6,055	414
Fuel	303,615	65,141	Fuel	96,839	620
Cement	-	426	Gravel Stone	-	2,017
Unmilled Rice	-	1,787	Sacks	-	3,113
Beef Cattle	-	341 ^a	Beef Cattle	-	9,509 ^a
Horses	-	7	Pigs	-	665 ^a
<u>International Trade</u>					
Wheat	147,400	-	Pallets	47,700	-
Fertilizer	455,741	-	Wood	8,450	-
Asphalt	20,480	-	Rattan	8,380	-
Cement	29,315	-	Copra	4,087	-
Rice	12,892	-	Bran	-	1,259 ^a
Cypann	5,322	-	Beef Cattle	-	2,150 ^a

^aNo. of animals

Source: 1. Laporan Tahunan 1975/76, Administrator Pelabuhan Makassar.

2. Laporan Tahunan, Badan Pengusahaan Pelabuhan Pare-Pare, tahun 1975.-

6.2.4. Air Transportation

In contrast to sea and road transportation, air transportation is designed to serve relatively fewer people who can afford air travel, that is, people in business trips government bureaucrats. Air travel in the province is thus limited to centres of major business and administrative activities.

At present air transportation is little used in agricultural trading, but in the future a high grade of agricultural commodity, i.e. perishable fish will be traded for freshness retention with air transportation.

There are no considerable topics in reference to agriculture at present, however with socio-economic the following table 13 should be often used on planning.

Table 13. Air Transportation facilities in South Sulawesi, 1976

Name of airport or airstrip	City	Class	Runway		Surface	Landing Ca- pability	Distance from city (Km)	R e m a r k s
			Length	Width				
Hasanuddin	U.Pandang	I	2,350	45	Asphalt	DC-9	21	
M a l i l i	-	Air strip	350	20	"thin- Coated Asphalt	DHC-6	-	Owned by PT. INCO
Soroako	-	Air Strip	338	20	Grass	Helio courier	-	Owned by PT. INCO
Bahonatewe	-	Air Strip	510	30	Grass	Helio courier	-	Owned by PT. INCO
K a r a m	Memuju	Air Strip	840	23	Grass	Cessna	-	Owned by Kabupaten Memuju (damaged)
Mesamba		Air Strip	1740	14	Compacted Sand		-	Not operational.

Source: Dir. Jend. Perhubungan Udara, Kanwil Pen. IV, Ujung Pandang
(Personal Communication, October 1976).

IV

DATA FOR THE CONDOITION OF THE FIVE DEVELOPMENT
BLOCS IN SOUTH SULAWESI PROVINCE

REFERENCE DATA FOR CHAPTER 8
IN THE VOLUME II

IV. 1

Production potential of food stuff and average production per capita in South Sulawesi, specified by bloc, 1974.

Zone/product	Production potential (kg)				Total
	South	West	East	North	
<u>No. Potential</u>					
<u>I. Population (person)</u>	2.104.791	761.618	1.311.858	677.156	5.333.579
<u>II. Food stuff (Ton)</u>					
1. Main Food stuff	640.191	346.160	272.743	248.123	1.667.268
2. Second crops	512.135	294.780	217.015	151.577	1.270.665
3. Horticulture	104.671	51.380	55.728	64.208	328.879
<u>III. Average food stuff production percapita (Kg)</u>					
1. Main food stuff	23.385	x	x	32.338	12.001
2. Secondary crops	23.385	x	x	32.338	12.001
3. Horticulture	23.385	x	x	32.338	12.001
<u>production percapita (Kg)</u>	204	452	208	366	352
1. Main food stuff	243	387	165	224	198
2. Secondary crops	50	68	43	95	102
3. Horticulture	11	x	x	47	25

Note : x) No data obtained

- Main food stuff : rice and Corn
- Secondary crops : tubers and beans
- Horticulture : fruit and vegetavles

Source : The team estimated from many data.

IV. 2. Condition and estimate of population in periods of 1970 - 1976
specified by Bloc.-

No.	Year	Unit : person					Total
		Bloc I	Bloc II	Bloc III	Bloc IV	Bloc V	
1.	1970	1,975,342	747,791	1,230,764	620,458	447,555	5,022,090
2.	1971	2,019,918	766,103	1,303,632	634,513	463,259	5,187,425
3.	1972	2,067,309	781,514	1,309,987	664,309	468,966	5,292,085
4.	1973	2,079,901	784,313	1,303,294	661,324	467,359	5,296,191
5.	1974	2,104,791	758,482	1,511,996	685,156	478,895	5,339,320
6.	1975	2,146	773,652	1,338,235	698,859	488,473	5,446,106
7.	1976	2,183,384	779,067	1,360,984	712,836	496,777	5,533,243

Source : Data from annual report of statistic and census office.

IV.3. Estimation of labour force in South Sulawesi by Bloc,
from 1970 through 1976.

No.	Year	Unit: Manpower					Total
		Bloc I	Bloc II	Bloc III	Bloc IV	Bloc V	
1.	1970	1,264,218	478,701	787,588	397,093	286,435	3,214,135
2.	1971	1,292,747	490,305	834,324	406,088	296,485	3,319,949
3.	1972	1,323,077	500,168	838,391	425,157	300,138	3,386,931
4.	1973	1,331,136	501,313	834,108	423,247	299,109	3,388,913
5.	1974	1,347,066	485,482	839,677	438,499	306,492	3,417,216
6.	1975	1,374,007	495,137	856,470	447,269	312,622	3,485,505
7.	1976	1,397,365	498,602	871,029	456,214	317,936	3,541,273
rate of growth		1.7	0.7	1.7	2	1.7	1.6

Note: 54 % of the population is labour force.

Source : The team estimated from many data.

IV.4. Estimation of labour employment in the Agricultural Sector
in South Sulawesi by Bloc, 1970 through 1976.

Unit: Manpower

No. Year	Bloc I	Bloc II	Bloc III	Bloc IV	Bloc V	Total
1. 1970	276,395	150,255	274,665	138,432	100,210	919,953
2. 1971	281,371	132,340	279,605	140,786	102,215	936,317
3. 1972	286,434	154,457	264,637	143,179	104,259	953,170
4. 1973	291,590	136,603	289,761	145,613	106,344	970,327
5. 1974	296,839	136,794	294,977	148,033	108,471	987,793
6. 1975	302,182	141,015	300,286	150,606	110,640	1,005,573
7. 1976	306,552	143,057	306,552	153,276	112,402	1,021,841
Rate of Growth	1.8	1.6	1.8	1.7	2	1.8

Note: Data 1971 (Census 1971)

Data 1976 (Bappeda Sulsel.)

Source : The team estimated from many data.

IV.5. Estimation of labour employment in South Sulawesi, 1970 through 1976, in and outside the Agricultural Sector

Year	Labour employment in		Total labour employment in S.S.	Remarks
	Agricultural Sector	outside Agr. Sector		
1970	919,953	391,414	1,311,367	
1971	936,317	418,222	1,354,539	~ About 40.8 % of labour force is employed
1972	953,170	428,698	1,381,868	(Report on estimation of problems in S.S. Regional Agriculture Development by Pelita III).
1973	970,327	412,350	1,382,677	
1974	967,793	406,431	1,394,224	
1975	1,005,573	416,513	1,422,086	
1976	1,021,841	422,998	1,444,839	

Source : The team estimated from many data.

**IV.6 Estimation of farm households in South Sulawesi by Bloc,
1970 through 1976**

Unit: person

No.	Year	Bloc I	Bloc II	Bloc III	Bloc IV	Bloc V	Total
1.	1970	198,306	102,213	180,980	97,126	63,574	642,206
2.	1971	201,991	107,254	195,545	101,522	74,121	680,433
3.	1972	206,730	109,411	196,498	106,289	75,035	693,963
4.	1973	207,990	109,803	195,494	105,811	74,777	693,875
5.	1974	210,479	106,187	196,799	109,625	76,623	699,713
6.	1975	214,688	108,311	200,735	111,817	78,156	710,908
7.	1976	218,338	109,069	204,147	114,053	79,485	722,283

Percentage over

total

population 10 % 14 % 15 % 16 % 14 % 13 %

Note: Estimation based on the percentage of farm household over total population in 1970

Data 1970 (South Sulawesi Agricultural Extension Service)

Source: The team estimated from many data

**IV.7. Labour force in Agricultural Sector in South Sulawesi by Bloc,
1970 - 1976**

No.	Year	Units: Manpower					Total
		Bloc I	Bloc II	Bloc III	Bloc IV	Bloc V	
1.	1970	809,099	306,369	503,120	254,139	163,318	1,957,045
2.	1972	827,358	313,795	533,967	259,396	169,750	1,933,357
3.	1972	846,769	320,107	536,570	272,100	192,088	2,020,171
4.	1973	851,927	320,040	533,029	270,878	191,429	2,052,494
5.	1974	862,122	310,482	537,393	280,639	196,154	2,065,334
6.	1975	879,364	316,887	543,140	286,252	200,078	2,118,699
7.	1976	894,313	319,105	557,458	291,976	203,479	2,152,598

Note: 66 % of the labour force is that of the agricultural sector.

Data: Estimation report on problems in agricultural development of South Sulawesi in Repelita III.

Amount of food stuff production in the South Sulawesi Province.

Year	Rice *) ¹	Corn	Tubers	Beans	Vegetables	Fruit	Total Equivalent *) ²	Amount ...	Fish *) ³	Total
1964	500	371	488	31 E)	37	E) 115	1.622	134		1.260
1965	520	242	572	32 E)	37	E) 115	1.508	172		1.108
1966	536	345	526	37 E)	37	E) 115	1.596	158		1.220
1967	574	237	497	36 E)	37	E) 115	1.496	144		1.143
1968	705	287	466	37 E)	37	E) 115	1.647	140		1.321
1969	660	228	412	39	37	115	1.491	124	111	1.203
1970	880	213	326	43	36	124	1.622	96	13	1.298
1971	875	144	319	32	36	136	1.542	96	14	1.319
1972	641	110	300	26	37	141	1.343	114	14	1.077
1973	828	337	345	40	38	139	1.736	106	14.203	1.488
1974	662	95	320	30	37	90	1.234	96	16	1.010
1975	920	107	271	37	37	132	1.504	81	19	1.341
1976	954	115	334	29	33	139	1.604	100	24	1.370

*)¹ = Equivalent 52 %.
 *)² = Equivalent 30 %.

E) = Data for 1964-1968 regarded similar to that for 1969
 *)³ = Total = Rice + Corn + Equivalent tubers + Beans + Vegetables + Fruit.
 *)⁴ = Amount of cattle meat production directly obtained from the South Sulawesi Agr. Extension Service.

Source : BAPFEDA.-

IV.2. Development in upland paddy harvest 1968 - 1976
in South Sulawesi
specified by Developmental bloc.

Tahun	I	II	III	IV	V	Total
1968	7,5	6,0	17,8	7,2	11,9	50,4
1969	6,5	5,1	10,2	8,2	12,6	50,6
1970	4,5	5,0	19,9	7,4	12,0	49,8
1971	3,8	3,9	17,3	5,8	10,9	41,8
1972	3,7	3,5	1,9	3,7	7,7	20,5
1973	3,2	5,1	10,3	3,3	11,3	33,1
1974	1,9	1,4	9,0	3,3	7,5	23,1
1975	2,9	1,2	6,4	3,3	9,0	23,8
1976	2,5	1,7	6,8	4,5	6,7	22,2

Source : The team estimated from many data.

IV. 10 Development in Gadu paddy harvest 1968 - 1976
in South Sulawesi Province
specified by developmental Bloc

(in thousand Ha)

Year	I	II	III	IV	V	Total
1968	7,4	14,7	4,9	1,3	3,0	31,3
1969	11,2	23,0	6,5	8,4	5,5	54,5
1970	14,6	27,7	8,7	2,5	3,4	56,9
1971	34,6	39,7	17,4	2,4	2,8	82,4
1972	21,0	54,3	47,4	4,2	3,3	112,8
1973	28,9	45,7	0,4	2,6	1,8	87,4
1974	30,9	28,5	25,0	2,5	1,8	91,6
1975	23,9	49,0	26,8	2,7	5,2	107,6
1976	25,0	56,9	26,7	7,9	5,8	122,2

IV. 11 Development in Harvest of Wet-seasonal paddy,
1968 - 1976 South Sulawesi Prov.
specified by developmental Bloc

(in thousand Ha)

Year	I	II	III	IV	V	Total
1968	123,3	89,9	154,7	44,2	15,8	427,9
1969	121,9	83,5	146,0	44,4	16,4	412,3
1970	111,8	101,4	159,5	44,4	16,0	439,5
1971	121,8	66,8	140,1	46,6	16,3	399,6
1972	112,3	41,0	30,7	44,8	17,6	246,4
1973	121,0	45,6	144,3	44,2	14,4	369,6
1974	126,6	52,6	109,8	40,1	15,6	344,7
1975	125,6	64,1	158,3	48,2	18,0	414,7
1976	123,7	67,5	121,5	51,7	15,2	379,6

IV. 12. Development of food stuff production during 1969 - 1976
in South Sulawesi

specified by developmental bloc... (in thousand tons)

Tahun Bloc	I	II	III	IV	V	Total
1969	727,9	271,4	536,3	183,5	206,8	1.944,7
1970	744,3	499,6	669,4	185,2	157,9	2.275,4
1971	745,5	436,9	607,7	194,7	178,2	2.186,1
1972	635,6	371,7	244,0	273,6	212,0	1.756,1
1973	759,2	375,9	782,0	226,6	146,2	2.316,9
1974	633,3	380,6	395,7	211,4	151,9	1.772,1
1975	705,8	361,0	654,4	245,4	175,8	2.184,0
1976	690,4	564,4	512,2	277,5	150,3	2.215,3

Source: The team estimated from many data

XV. 13. Development of food stuff production in South
Sulawesi Province from 1969 to 1976
(equivalence to rice)

Year	Block I	II	III	IV	V	Total
1969	387	137	325	87	95	1.048
1970	411	253	390	90	73	1.236
1971	403	182	338	94	74	1.149
1972	336	182	145	124	92	898
1973	433	189	482	108	67	1.305
1974	337	167	212	100	71	886
1975	382	185	358	116	81	1.145
1976	370	281	284	137	69	1.162

Source : Inspeksi Dinas Pertanian Rakyat Provinsi
Sulawesi Selatan.-

IV. 14 Development of rice (paddy) production in South Sulawesi
Province from 1969 to 1976
specified by developmental Bloc

(thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	398,5	249,7	391,0	122,6	107,7	1.269,5
1970	451,0	478,6	540,5	136,1	85,5	1.691,7
1971	539,2	414,1	510,5	142,5	76,7	1.683,0
1972	421,4	360,0	160,6	182,1	109,7	1.232,5
1973	498,9	344,0	536,2	142,3	71,2	1.592,6
1974	469,4	259,6	313,6	144,1	86,4	1.273,1
1975	529,4	373,2	576,9	178,4	112,1	1.770,0
1976	525,0	552,6	440,9	229,2	89,8	1.836,9

Source: The team estimated from many data

IV. 15 Development of upland & paddy production in South Sulawesi
Province from 1969 to 1976
specified by developmental Bloc

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	10,4	7,4	22,5	8,0	19,3	68,4
1970	8,1	6,4	25,1	10,4	15,7	65,7
1971	7,0	5,8	25,8	8,0	15,0	61,6
1972	6,2	5,0	1,2	5,2	9,8	27,4
1973	5,3	5,3	15,3	3,4	14,8	44,1
1974	3,2	1,4	7,9	5,3	9,1	26,9
1975	5,6	2,5	7,9	4,5	11,4	31,9
1976	6,8	2,3	10,7	7,4	7,9	35,1

Source: The team estimated from many data

IV. 16 Development of gadu paddy production in South Sulawesi Province from 1969 to 1976 specified by developmental Bloc..

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	25,6	67,7	15,7	17,3	21,9	158,2
1970	50,4	92,3	20,7	5,9	11,9	181,2
1971	90,8	149,8	56,7	5,9	13,5	316,7
1972	77,7	231,2	97,4	16,8	22,0	445,1
1973	107,7	199,3	32,4	7,0	6,5	352,9
1974	92,9	101,7	80,4	7,3	26,4	308,7
1975	76,2	173,1	97,8	6,8	27,7	383,6
1976	78,5	241,7	74,1	26,7	25,7	466,2

Source: The team estimated from many data

IV. 17 Development of Rendangan paddy production in South Sulawesi Province from 1969 to 1976 specified by developmental Bloc..

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	352,5	174,6	352,8	96,5	66,5	1.042,9
1970	392,5	379,9	497,7	119,3	57,9	1.444,8
1971	441,4	258,5	428,0	128,6	48,2	1.304,7
1972	337,5	123,8	62,0	160,1	77,2	760,0
1973	385,9	139,4	488,5	131,5	49,9	1.195,6
1974	373,3	156,5	225,3	131,5	50,9	937,5
1975	447,6	197,6	471,2	165,1	73,0	1.354,5
1976	439,6	308,6	336,1	195,1	56,2	1.335,6

Source: The team estimated from many data

IV. 18 Development of corn production in South Sulawesi
Province from 1969 to 1976
specified by developmental Bloc...

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	100,5	13,5	93,6	5,2	12,5	224,7
1970	107,2	12,7	79,6	4,2	9,3	213,0
1971	70,2	13,9	51,5	3,7	5,2	144,5
1972	60,2	5,1	43,8	2,9	5,8	117,8
1973	124,9	21,2	154,0	10,6	10,6	331,3
1974	50,6	4,0	28,7	3,9	7,0	94,2
1975	53,9	4,2	36,0	3,0	4,8	106,9
1976	57,9	4,9	36,1	2,4	4,6	105,9

Source: The team estimated from many data

IV. 19 Development of sweet potato production in South Sulawesi
Province, 1969 - 1976
specified by developmental Bloc...

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	30,9	4,9	10,0	18,9	5,6	70,3
1970	20,8	5,3	9,5	19,9	2,8	58,3
1971	20,5	6,0	10,5	20,0	5,0	61,5
1972	15,8	4,4	7,6	32,6	3,3	63,7
1973	19,4	4,3	9,5	21,8	3,3	58,3
1974	12,2	4,7	8,2	19,7	4,8	49,6
1975	9,6	2,2	5,8	20,0	3,1	40,7
1976	11,2	3,5	4,0	11,9	4,3	34,9

Source: The team estimated from many data

IV. 20 Development of cassava production in South Sulawesi
Province , 1969 - 1976
specified by developmental Bloc ..

(in thousand tons)

Y e a r	Bloc I	II	III	IV	V	T o t a l
1969	182,9	19,4	22,9	35,9	80,1	341,2
1970	146,4	19,0	19,7	22,6	59,4	267,1
1971	99,2	23,9	25,0	26,7	90,8	265,6
1972	124,5	19,5	23,7	54,8	93,2	315,7
1973	105,5	27,0	51,5	50,8	60,4	295,2
1974	89,1	48,0	39,2	40,9	52,9	270,1
1975	90,2	21,8	20,7	41,8	55,0	229,5
1976	86,5	21,8	18,4	32,4	49,9	209,0

Source The team estimated from many data

IV. 21 Development of green gram production in South Sulawesi
Province , 1969 - 1976
specified by developmental Bloc

(thousand tons)

Y e a r	Bloc I	II	III	IV	V	T o t a l
1969	8,9	0,1	5,1	0,1	0,6	14,8
1970	11,4	0,1	7,5	0	0,7	19,7
1971	11,0	0,4	2,6	0,1	0,4	14,5
1972	11,8	0,2	3,2	0,2	0,4	15,8
1973	4,0	0,2	8,1	0,1	0,3	12,7
1974	6,0	7,9	0,7	0,1	0,4	15,1
1975	4,9	0,1	3,4	0,1	0,4	8,9
1976	5,8	0,3	3,9	0,1	0,5	10,5

Source: The team estimated from many data

IV. 22 Development of peanut production in South Sulawesi
Province , 1969 - 1976
specified by developmental Bloc

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	5,3	1,8	10,4	0,5	0,3	18,3
1970	6,8	2,0	11,5	0,5	0,2	21,0
1971	4,5	1,9	7,1	0,6	0,1	14,2
1972	1,9	1,9	4,2	0,4	0,3	8,7
1973	6,2	3,5	12,1	0,6	0,3	22,7
1974	5,5	2,7	4,7	0,5	0,3	13,7
1975	12,3	1,0	9,6	0,7	0,3	23,9
1976	3,2	2,5	7,1	0,5	0,4	13,7

Source: The team estimated from many data

IV. 23 Development of Soy bean production in South Sulawesi
Province , 1969 - 1976
specified by developmental Bloc

(in thousand tons)

Year	Bloc I	II	III	IV	V	Total
1969	0,9	1,4	3,3	0,3	-	5,9
1970	0,7	0,9	1,1	1,9	-	4,6
1971	0,9	0,3	0,5	1,1	-	2,8
1972	0,3	0,1	0,9	0,6	-	1,9
1973	0,3	2,7	0,6	0,4	0,1	4,1
1974	0,5	1,9	0,6	2,2	0,1	5,3
1975	0,5	0,3	1,8	1,4	0,1	4,1
1976	0,8	0,6	1,2	1,0	0,8	4,4

Source: The team estimated from many data

IV. 24 Development of gross value of food stuff percapita, 1970 to 1976
South Sulawesi Province
specified by developmental Blocs -

(in Rp.000)

Year	Bloc I	II	III	IV	V	Sul-Sel	Index
1970	8.929	17.483	13.830	7.267	7.822	11.100	100
1971	8.985	14.510	11.536	7.200	3.219	10.155	92
1972	9.041	14.713	5.826	11.612	11.874	9.657	87
1973	12.459	18.560	21.297	11.354	9.829	15.167	137
1974	13.844	20.864	14.689	13.425	12.709	14.900	134
1975	19.526	31.128	30.333	19.407	18.850	23.754	214
1976	18.182	41.921	22.440	21.367	16.570	22.837	205

Source: BAPPEDA SulSel.

IV. 25 Development of gross value of food stuff production, 1970-1976
South Sulawesi Province
specified by developmental Blocs -

(in Rp.000)

Year	Bloc I	II	III	IV	V	Sul-Sel	Index
1970	17.637.840	13.074.314	17.020.039	4.508.804	3.500.766	55.742.563	100
1971	18.148.944	11.116.183	15.039.098	4.568.297	3.807.712	52.680.234	95
1972	18.690.443	11.498.415	7.632.109	7.714.082	5.568.577	51.103.626	92
1973	25.914.042	14.556.666	27.756.342	7.508.591	4.593.444	80.329.085	144
1974	29.139.262	15.824.622	19.272.476	9.198.170	6.124.687	79.559.217	143
1975	41.919.786	24.082.333	40.592.961	13.562.898	9.207.633	129.365.611	232
1976	39.697.250	32.659.509	30.541.110	15.231.453	8.231.803	126.361.125	227

Source: BAPPEDA SulSel.

IV. 26 Development of gross value of rice production in South Sulawesi
Province, 1970 - 1976
specified by developmental blocs...

Unit: 1,000 Rp.

Year	Bloc I	II	III	IV	V	Total
1970	11,517.485	12,219.615	13,800.046	3,474.905	2,182.986	43,195.037
1971	13,065.894	10,034.471	12,370.436	3,453.060	1,858.594	40,782.456
1972	12,402.644	10,595.520	4,726.779	5,539.567	3,203.080	36,292.599
1973	18,159.960	12,521.600	19,517.680	5,177.620	2,034.534	57,970.640
1974	21,919.102	12,122.281	14,643.865	6,728.894	4,034.534	59,448.677
1975	32,346.340	22,802.520	35,248.590	10,900.240	6,849.310	108,147.000
1976	28,765.857	30,312.762	24,135.481	12,572.720	4,925.539	100,762.360

Source: The team estimated from many data

Development of gross value of Corn production in South Sulawesi
Province, 1970 - 1976
specified by developmental Block...

Unit: 1,000 Rp.

Year	Block I	II	III	IV	V	Total
1970	2.138.640	235.365	1.536.020	83.790	185.535	4.249.350
1971	1.750.788	346.666	1.284.410	92.278	129.688	3.603.830
1972	2.031.148	172.074	1.477.812	97.846	195.692	3.974.572
1973	3.373.545	573.460	4.436.200	286.730	286.730	8.961.665
1974	2.290.662	181.080	1,299.249	176.553	316.890	4.264.434
1975	2.873.731	204.918	1.756.440	146.370	234.192	5.215.651
1976	3.907.092	330.652	2.436.028	161.952	310.408	7.146.132

Source: The team estimated from many data

IV. 30 Development of gross value of Cassava production in South Sulawesi
Province, 1970 - 1976
specified by developmental bloc.

Unit: 1,000 Rp.

Year	Bloc I					
1970	2.514.637	325.716	358.377	387.907	1.020.647	4.587.283
1971	1.834.522	442.077	462.916	492.822	1.687.541	4.910.889
1972	2.708.489	424.886	514.885	1.193.340	2.028.902	6.870.502
1973	2.710.912	692.679	1.324.268	1.306.234	1.552.652	7.586.745
1974	2.503.541	1.348.266	1.100.480	1.149.150	1.486.265	7.587.703
1975	3.072.655	743.802	706.132	1.423.742	1.872.755	7.819.086
1976	4.181.999	1.054.391	891.262	1.566.969	2.410.008	10.104.630

Source: The team estimated from many data

IV. 29 Development of gross value of Sweet potato production in South Sulawesi
Province, 1970 - 1976
specified by developmental Bloc.--

Unit: 1,000 Rp.

Year	Bloc I	II	III	IV	V	Total
1970	460.928	117.448	210.520	440.984	62.048	1.291.928
1971	434.190	127.080	222.390	423.600	105.900	1.320.570
1972	379.832	105.776	182.704	783.704	79.332	1.531.348
1973	554.064	122.808	271.320	622.608	94.248	1.665.048
1974	412.238	158.813	277.078	665.663	162.172	1.675.934
1975	361.536	82.852	218.428	753.200	116.746	1.532.762
1976	582.200	181.965	207.960	618.681	223.557	1.814.451

Source: The team estimated from many data

IV. 30 Development of gross value of peanut production in South Sulawesi
 Province, 1970 - 1976
 specified by developmental Bloc

Unit: 1,000 Rp.

Year	Bloc I	III	III	IV	V	Total
1970	379.248	109.998	640.912	30.512	13.108	1.173.779
1971	290.765	122.620	453.894	37.551	8.744	913.574
1972	1 179.448	175.545	394.023	33.641	23.883	806.539
1973	659.856	379.920	1.294.877	68.512	27.298	2.430.463
1974	1.004.524	496.340	1.751.585	127.365	47.375	4.259.705
1975	2.312.763	189.460	1.805.033	131.251	48.820	4.487.327
1976	747.218	594.057	1.675.825	118.311	91.285	3.227.199

Source: The team estimated from many data

IV. 31 Development of gross value of green gram production in South Sulawesi Province, 1970 - 1976 specified by developmental Bloc ..

Unit: 1,000 Rp.

Year	Bloc I	II	III	IV	V	Σul-Σel	Remarks
1970	593.484	5.206	390.450	X	36.442	1.025.582	
1971	721.710	26.244	170.586	6.561	26.244	951.345	
1972	964.060	16.340	261.440	16.340	32.630	1.266.350	
1973	423.480	21.174	657.547	10.587	31.761	1.344.549	
1974	933.060	1.228.529	108.857	15.551	62.204	2.348.201	
1975	884.891	18.059	614.006	18.059	72.236	1.607.251	
1976	1.358.940	70.290	913.770	X	117.150	2.460.150	

Note: X) No data obtained

Source: The team estimated from many data

IV. 32. Development of gross value of Soy bean production in South Sulawesi Province, 1970 - 1976 specified by developmental Block.

Unit: 1,000 Rp.

Year	Block I	II	III	IV	V	Sul-Sel
1970	33.418	42.966	52.514	90.706	x	219.604
1971	51.075	17.025	28.375	62.425	x	158.900
1972	24.822	8.274	74.466	49.644	x	157.206
1973	27.225	245.025	54.450	36.300	9.075	372.075
1974	76.135	289.313	91.362	334.994	15.227	807.031
1975	67.870	40.722	244.332	190.036	13.574	556.534
1976	153.856	115.392	230.784	192.320	153.856	846.208

Note: X) No data obtained

Source: The team estimated from many data

IV. 33 Production of food crops in Bloc I (1974)

Products	Unit: tons				
	U.Pandang	Maros	Pangkep	Gowa	Takalar
1. R i c e	5,663.96	73,854.20	74,344.41	101,516.59	56,097.29
2. C o r n	35.17	407.80	806.28	5,124.96	2,913.70
3. Peanut	9.6	136.93	72	66	37.90
4. Soy beans	-	41.90	225.93	56.20	-
5. Green peas	299.93	349.80	9,360	2,315.65	1,181.95
6. Cassava	8,375	5,308.20	306.60	24,204.69	4,636.50
7. Sweet potato	138.60	941.45	1,396	2,323.35	2,040
8. Vegetables	-	699	647.50	723.40	-
9. F r u i t	68.64	1,203.52	1,617.71	867.68	-

IV. 33 (Continued)

Products	Jenepono	Pantaeng	Bulukumba	Selayar	Total
1. R i c e	29,561.84	19,496.28	100,716.42	1,005.14	462,256.13
2. C o r n	12,424.52	8,033.50	13,562.16	6,571.24	49,879.33
3. Peanut	344.06	2,182.05	2,590.05	43.64	5,482.23
4. Soy beans	-	3.-	129.49	-	519.52
5. Green peas	1,423.82	59	72.63	43.64	15,106.42
6. Cassava	10,744.42	964.50	14,307.29	2,260.6	71,107.80
7. Sweet potato	457.84	1,047.50	3,574.20	533.5	12,455.44
8. Vegetables	2,087.34	621.20	699.30	581.7	6,059.52
9. F r u i t	7,092.5	358.32	5,071.50	1,118	17,325.23

Source: BAPPEDA Sul-Sel.

IV. 34 Production of estate crops in Block I (1974)

Products	Unit: tons				
	U.Pandang	Maros	Pangkep	G o w a	Takalar
1. Coconut	92.00	115.45	2,992.54	243.05	164.53
2. Candlenut	0.75	-	-	877.95	-
3. Nutmeg	-	-	-	-	-
4. Coffee	-	3.32	3.31	482.88	-
5. C l o v e	-	-	-	0.01	-
6. C a p o k	7.20	12.43	6.85	29.25	8.60
7. Sesame seeds	4.90	-	-	532.50	64.30
8. Guetum guemon	-	-	-	-	-
9. Tobacco	0.45	156.35	11.20	475.30	109.00
10. Canarium commune	-	-	-	-	-
11. P e p p e r	-	-	-	-	-
12. Sugar cane	20.00	-	-	-	60.00
13. C o t t o n	-	-	-	-	0.48
14. R u b b e r	-	-	-	-	-

Source: BAPPEDA, Sul-Sel.

(Continue)

(IV. 36 Continued)

				Unit: tons
Jeneponto	Bantaeng	Bulukumba	Selayar	T o t a l
937.19	144.80	2,080.20	7,859.99	14,629.75
19.75	540.20	515.00	205.00	2,159.50
-	-	-	3.20	3.20
16.76	528.65	980.65	0.45	2,016.02
-	-	0.15	-	0.16
93.20	286.55	150.00	13.90	607.98
19.20	-	2.40	20.43	643.73
-	-	-	3.00	3.00
111.90	-	5.01	20.45	889.66
-	-	-	23.00	23.00
-	-	1.90	-	1.90
639.50	-	-	0.72	700.22
313.11	-	-	-	313.11
-	-	-	-	476.12

Source: BAPPIEDA SulSel.

IV. 35 Fishery production in Bloc I (1974)

No. Products	Unit: tons				
	U.Pandang	Maros	Pangkep	G o w a	Takalar
1. S e a	11,700.0	270.0	1,459.0	-	15,276.0
2. L a k e	-	-	-	-	-
3. R i v e r	4.0	32.0	72.5	92.5	24,500.0
4. Fish ponds	898.0	391.5	3,579.0	22.0	3,150.0
5. Marshes	-	4.0	11.9	91.0	15,500.0
6. Paddy field	-	8.0	1.6	12.5	-

IV. 35 (Continued)

No. Products	Jeneponto	Buntaeng	Bulukamba	Belayar	T o t a l
1. S e a	680.5	4,440.58	9,908.99	3,788	47,703.5
2. L a k e	-	-	-	-	-
3. R i v e r	49.6	6.75	25.19	1.1	308.1
4. Fish ponds	725.5	14.27	1,053.25	17.8	9,851.6
5. Marshes	-	4.05	22.50	-	178.9
6. Paddy field	-	-	11.63	-	33.7

Source: BAPPPMA, Sul-Sel.

IV. 36 Population of livestock in Bloc I (1974)

No. Products	Unit: heads				
	U.Pandang	Maros	Pangkep	G o w a	Total
1. Buffaloes	2,121	29,696	16,853	32,739	24,153
2. C o w s	-	25,287	22,319	12,688	183
3. Horses	-	5,171	3,202	7,640	1,499
4. Goats/sheep	-	7,589	6,203	12,534	4,896
5. P i g s	14,551	-	-	1,987	-
6. Poultry	-	328,488	281,344	641,941	185,763

(IV. 36 Continued)

Products	Jenepono	Bantaeng	Bulukumba	Selayar	Total
1. Buffaloes	17,252	8,726	15,596	4,221	151,357
2. C o w s	5,558	10,775	26,320	171	103,301
3. Horses	10,620	14,061	23,720	3,457	69,370
4. Goats/sheep	35,032	12,789	19,657	17,417	116,137
5. P i g s	-	545	-	-	17,083
6. Poultry	144,127	128,025	357,615	87,661	2,156,964

Source: BAPPEDA, Sul-Sel.

IV. 37 Forestry production in Bloc I (1974)

No. Products	Maros	Pangkep	G o w a	Total
<u>Cultivated forests</u>				
1. Peeled candlenut wood	142,651	-	-	567
2. III rd /IV th grade wood	2,851,974	-	477,638	-
3. Mixed forest woods	-	195,721	-	-
4. Fire wood	900	-	120	-
5. R a t t a n	629	-	-	-
6. Palm-fibres	-	-	30	-
7. B a m b o o	75,189	-	-	-
8. Brown Sugar	44,021	-	-	-

IV. 37 (Continued)

Products	Takalar	Bulukumba	Selayar
<u>Main Forest:</u>			
1. Fire wood	30,358	-	-
2. T i m b e r	1,489	350	-
3. Spinach wood	-	-	350

Unit: Wood = m³ Rattan = bunch
 Bamboo = trunks Brown Sugar = piece

Source: BAPPADA, Sul-Sel.

IV. 38. Production of food in Bloc II by commodities (1971-1974)

Unit: tons				
Commodities	1971	1972	1973	1974
1. Rice	371,780	366,490	339,380	290,160
2. Corn	12,800	14,970	27,110	4,620
3. Cassava	21,800	19,520	18,930	46,810
4. Peanut	3,260	1,810	3,600	4,570

Source: The team estimated from many data

IV. 39. Livestock population in Bloc II (1971 - 1974)

Unit: heads				
Commodity	1971	1972	1973	1974
1. Cows	108.87	115.08	121.82	136.71
2. Buffaloes	29.22	35.35	37.11	36.96
3. Goats	22.27	24.97	30.49	29.72
4. Poultry	644.14	1,048.89	828.42	892.71

Source: The team estimated from many data

IV: 40

Forestry production in Bloc II (1971 - 1974)

Products	1971	1972	1973	1974
1. Wood	2,111.8 m ³	1,757.5 m ³	1,581.9 m ³	1,259.7 m ³
2. Rattan	2,483.5 ton	12,931.9 ton	3,992.3 ton	7,280.3 ton
3. Candlenut	595.4 ton	388.2 ton	630.1 ton	583.3 ton
4. Natural Silk	6 ton	5 ton	0.5 ton	0.6 ton
5. Brown Sugar	335 ton	437 ton	3.5 ton	399 ton

Source: BAPPEDA, Sul-Sel.

IV. 41 Food production in Bloc III (1971 & 1974)

Unit: tons			
Commodity	1971	1974	R e m a r k s
1. R i c e	50,276.53	201,792.60	1. x) no data obtained
2. C o r n	55,930.96	15,222.16	2. in 1974, Kabupaten Soppeng not include
3. Peanut	6,965.13	2,471.11	
4. Soy bean	505.70	6,873.15	
5. Green gram	2,673.15	76.47	
6. Cassava	24,813.65	37,997.73	
7. Sweet potato	10,584.90	8,309.44	
8. Long beans	1,754.50	x	

Source: BAPPEDA, Sul-Sel.

IV. 42 Production of estate crops in Bloc III (1971 & 1974)

Unit: tons		
Commodity	1971	1974
1. C o f f e e	879.82	423.58
2. Tobacco	2,312.30	3,304.15
3. C a p o k	1,166.89	1,443.1
4. Candlerut	1,383.74	2,034.09
5. Coconut	36,810.80	15,765.91

Source: BAPPEDA, Sul-Sel.

IV. 43. Fishery production in Bloc III (1971 & 1974)

Products	Unit: tons	
	1971	1974
1. Marine fish	7,920.29	16,985.96
2. Lake fish	2,701.57	9,477.14
3. River fish	223.07	323.85
4. Pond fish	1,210.86	2,160.29
5. Marsh fish	599.11	1,258.98
6. Paddy field	147.30	72.85
T o t a l	12,802. 2	30,279.07

Source: BAPPEDA, Sul-Sel.

IV. 44. Livestock population in Bloc III (1971 & 1974)

Commodity	Unit: heads	
	1971	1974
1. Buffaloos	106,824	97,693
2. C o w s	101,026	190,493
3. H o r s e s	58,729	61,587
4. G o a t s	37,758	42,312
5. S h e e p	1,083	1,277
6. C h i c k e n	3,933,759	1,188,169
7. D u c k s	69,258	103,026
8. P o u l t r y (others)	89,581	140,841

Source: BAPPEDA, Sul-Sel.

IV. 45. Production of food crops in Bloc IV (1971 / 1974)

No. Products	Unit: tons			
	1 9 7 1		1 9 7 4	
	Luwu	Tator	Luwu	Tator
1. Rice	93,743	49,341	86,344	61,349
2. Corn	939	2,816	2,552	1,331
3. Cassava	2,744	23,072	14,693	29,729
4. Sweet potato	1,547	18,390	4,839	14,947
5. Vegetables	19,558	3,082	18,360	1,627
6. Fruit	127,849	118	9,280	3,071

Source: BAPPEDA, Sul-Sel.

IV. 46. Production of estate crops in Bloc IV (1971/1974)

No. Commodity	Unit: tons			
	1 9 7 1		1 9 7 4	
	Luwu	Tator	Luwu	Tator
1. Coconut	4,677.0	74.62	5,676.9	26.7
2. Coffee	413.7	712.0	334.3	573.2
3. Glove	0.3	0.3	7.1	2.7
4. Capok	98.8	18.6	108.3	20.0
5. Pepper	47.6	-	37.3	-

Source: BAPPEDA, Sul-Sel.

IV. 47. Fishery production in Bloc IV (1971/1974)

No. Products	Unit: tons			
	1 9 7 1		1 9 7 4	
	Luwu	Tator	Luwu	Tator
1. Marine fish	6,560.0	-	5,092.0	-
2. Pond fish	272.5	-	180.5	6.9
3. River fish	70.5	88.2	116.0	116.0
4. Marsh fish	100.0	0.5	236.5	0.3
5. Rice field fish	152.5	478.0	235.5	845.58
Total	7,155.5	575.7	5,860.5	968.8

Source: BAPPEDA, Sul-Sel.

IV. 48 Forestry production in Bloc IV (1971/1974)

Product	1 9 7 1		1 9 7 4	
	Luwu	Tator	Luwu	Tator
1. Timber	1,703 m ³	60,900	2,355	138,467
2. Rattan	631 tons	662	1,060	415
3. Damar	433 tons	-	347	-
4. Experted wood	80,657 m ³	-	130,840	-

Source: BAPPEDA, Sul-Sel.

IV. 49 Production of food crops in Bloc V (1971/1974)

Products	Unit: tons					
	1 9 7 1			1 9 7 4		
	Majene	Mamuju	Polmas	Majene	Mamuju	Polmas
1. Rice	6,399.6	7,099	62,400.5	6,365	7,064	74,665.4
2. Corn	499.5	1,735	4,196.8	153	4,701	2,209.9
3. Cassava	53,532.0	528	36,880.0	14,268	5,044	33,580.0
4. Vegetables	1,852.0	27	-	3,935	64	-
5. Fruit	13,016.0	368	-	7,719	283	-

Source: BAPPEDA, Sul-Sel.

IV. 50 Production of food crops in Bloc V (1971 & 1974)

No. C r o p s	Unit: tons					
	1 9 7 1			1 9 7 4		
	Majene	Manuju	Polmas	Majene	Manuju	Polmas
1. R i c e	6,400	7,099	62,401	6,365	7,064	74,665
2. C o r n	500	1,735	4,197	153	4,701	2,210
3. Cassava	55,532	528	38,880	14,268	5,044	33,580
4. Vegetables	1,852	27	-	3,935	64	-
5. F r u i t	13,016	363	-	7,719	283	-

Source: BAPPEDA, Sul-Sel.

IV. 51 Production of fishery in Bloc V (1971 & 1974)

No. Products	Unit: tons	
	1971	1974
1. Marine fishery	9,645.1	9,817.9
2. River fishery	63.9	66.8
3. Fish pond fishery	532.9	831.7
4. Marshes fishery	24.3	31.7
5. Paddy field fishery	538.5	654.0

Source: BAPPEDA SulSel.

V.

DATA FOR THE PRODUCTION CONDITION OF
VEGETABLES, FRUITS, LIVESTOCKS AND
ESTATE CROPS IN SOUTH SULAWESI
=====

REFERENCE DATA FOR CHAPTER
9.1.2. & 9.1.3. IN THE VOLUME II.

V. 1 Planted acreage by commodity

Unit: 000 ha.

Vegetable	Fruit	Estate tree	Estate crops	Paddy	Secondary crops	T o t a l
13	41	151	3	556	446	1,230
13	41	160	3	556	319	1,092
13	41	175	3	605	389	1,226
13	41	160	3	445	514	1,176
14	41	156	6	629	343	1,189
11	41	184	10	464	303	1,013
15	49	195	5	566	271	1,101
16	34	206	10	589	447	1,302

Source: Data from Diperta SulSel.

V. 2 Harvested acreage by commodity

Unit: 000 ha.

Vegetable	Fruits	Estate tree	Estate crops	Paddy	Secondary crops	T o t a l
9	41	98	3	518	437	1,106
9	41	104	3	530	397	1,084
9	41	114	3	533	293	993
9	41	104	3	380	271	803
10	41	101	6	490	529	1,177
8	41	120	10	457	252	888
11	49	127	5	546	271	1,009
12	34	129	10	524	265	965
10	41	112	5	497	339	1,004

Source: Data from Diperta SulSel.

V. 3 Paddy production in South Sulawesi (Dry stalk paddy)

C R O P Season	1 9 6 9			1 9 7 0			1 9 7 1		
	1 (ha)	2 (tons)	3 (/ha)	1 (ha)	2 (tons)	3 (/ha)	1 (ha)	2 (tons)	3 (/ha)
Low land									
Rainy season paddy	439,216	1,042,978	23.75	449,556	1,444,763	32.14	426,122	1,304,715	30.62
Dry season paddy	61,271	158,475	25.86	73,246	181,164	24.73	134,966	316,697	23.46
Upland	55,879	68,498	12.26	43,537	65,777	15.11	44,264	61,561	13.91
T o t a l	556,366	1,269,951	22.86	566,339	1,691,704	29.87	605,352	1,682,973	27.80

C R O P Season	1 9 7 2			1 9 7 3			1 9 7 4		
	1 (ha)	2 (tons)	3 (/ha)	1 (ha)	2 (tons)	3 (/ha)	1 (ha)	2 (tons)	3 (/ha)
Low land									
Rainy season paddy	348,187	760,833	21.85	460,668	1,195,535	420,352	937,433	22.30	
Dry season paddy	53,360	250,299	39.49	135,842	352,921	108,203	308,712	28.53	
Upland	33,703	27,389	8.13	32,533	44,015	25,540	26,633	10.43	
T o t a l	445,250	1,038,431	23.32	629,043	1,592,471	554,095	1,272,778	22.97	

Source: Data from Diperta SulSel.

V. 3 (Continued)

Crop Season	1975			1976			Average		
	1	2	3	1	2	3	1	2	3
	(ha)	(tons)	(/ha)	(ha)	(tons)	(/ha)	(ha)	(tons)	(/ha)
Low land									
Rainy season paddy	439,216	1,418,739	32.85	448,280	1,335,661	29.79	428,037	1,190,076	27.57
Dry season paddy	108,840	387,506	35.60	114,228	466,180	40.81	99,994	302,733	30.28
Upland	25,266	31,396	12.43	26,546	32,930	12.40	35,909	44,775	12.47
T o t a l	566,023	1,837,641	32.47	589,043	1,834,721	31.15	563,940	1,527,584	27.09

Note: 1. Planted acreage 2. Production 3. Yield

Source: Inspeksi Dinas Pertanian Rakyat Propinsi Sulawesi Selatan.

System	1969	1970	1971	1972
	1 (ha) 2 (tons) 3 (gt/ha) 1 (ha) 2 (tons) 3 (gt/ha) 1 (ha) 2 (tons) 3 (gt/ha) 1 (ha) 2 (tons) 3 (gt/ha)			
BIMAS	47,549 275,171 57.95	4,452 249,293 53.59	28,006 122,582 43.77	89,025 400,078 44.94
INMAS	15,190 28,742 42.13	21,791 100,195 45.98	82,780 364,066 43.98	77,909 263,171 33.78
Total	60,739 303,913 50.04	68,223 349,488 51.23	110,786 486,648 43.93	166,934 663,255 39.73

System	1973	1974	1975
	1 (ha) 2 (tons) 3 (gt/ha) 1 (ha) 2 (tons) 3 (gt/ha) 1 (ha) 2 (tons) 3 (gt/ha)		
BIMAS	87,117 422,692 48.53	95,330 409,667 43.11	94,645 445,873 47.11
INMAS	58,287 230,758 39.59	17,680 54,419 30.78	30,533 104,545 34.24
Total	145,404 653,450 44.94	113,010 464,086 41.07	124,778 550,418 44.11

System	1976	Average
	1 (ha) 2 (tons) 3 (gt/ha) 1 (ha) 2 (tons) 3 (gt/ha)	
BIMAS	107,192 394,338 36.79	74,375 339,964 45.71
INMAS	50,731 154,813 30.52	44,113 162,589 36.86
Total	180,712 549,151 30.39	118,488 502,553 42.41

Note : 1. Planted acreage
2. Production
3. Field

Source : SEKRETARIAT BADAN PEMBINA BIMAS SULAWESI SELATAN.

V.5 Paddy Production in South Sulawesi (Dry stalk paddy), by system

System	1969		1970		1971		1972		1973	
	1 (ha)	2 (tons)	1 (ha)	2 (tons)	1 (ha)	2 (tons)	1 (ha)	2 (tons)	1 (ha)	2 (tons)
Inland										
BIMAS	47,549	275,171	46,432	249,293	28,006	122,582	89,025	400,078	87,117	422,692
INMAS	13,190	28,742	21,791	100,195	82,780	364,066	77,909	263,177	58,287	230,758
Traditional	439,748	897,540	454,759	1,276,439	450,302	1,134,764	244,613	347,787	451,106	895,006
(Sub-Total)	500,487	1,201,453	522,802	1,652,927	561,088	1,621,412	411,547	1,011,042	596,510	1,548,456
Upland	55,879	68,498	43,537	65,777	44,264	61,561	33,703	27,389	32,533	44,015
Total	556,366	1,269,951	566,339	1,691,704	605,352	1,682,973	445,250	1,083,431	629,043	1,592,471

System	1969		1970		1971		1972		1973	
	1	2	1	2	1	2	1	2	1	2
Inland	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
BIMAS	9.5	22.9	8.9	15.3	5.0	7.6	21.6	39.6	14.6	27.3
INMAS	2.6	2.4	4.2	6.2	14.8	22.5	18.9	26.0	9.8	14.9
Traditional	87.9	74.7	86.9	78.5	80.2	69.9	59.5	34.4	75.6	57.8
T o t a l	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Note : 1. Planted acreage. 2. Production.

Source : SEKRETARIAT BADAN PEMBINA BIMAS SULAWESI SELATAN.

V.5 (continued)

		1974		1975		1976	
1	2	1	2	1	2	1	2
(ha)	(tons)	(ha)	(tons)	(ha)	(tons)	(ha)	(tons)
95,033	409,687	94,645	445,873	107,192	394,335		
17,680	54,419	30,533	104,545	50,731	154,813		
415,842	782,039	415,579	1,255,827	404,585	1,252,640		
528,555	1,246,145	540,757	1,806,245	562,508	1,801,791		
25,540	26,633	25,266	31,396	26,546	32,930		
554,095	1,272,778	566,023	1,837,641	589,045	1,834,721		

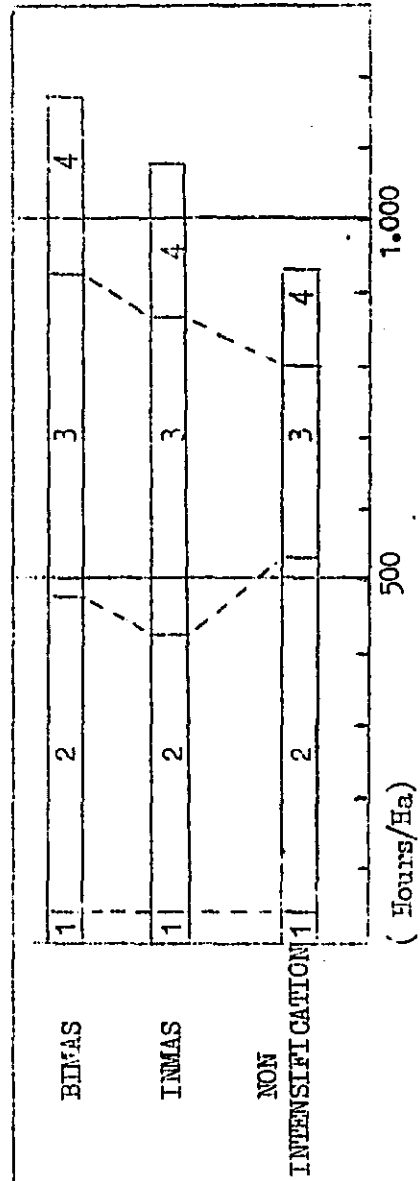
		1974		1975		1976	
1	2	1	2	1	2	1	2
0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
18.0	32.9	17.5	24.7	19.1	21.9		
3.3	4.4	5.6	5.8	9.0	8.6		
78.7	62.7	76.9	69.5	71.9	69.5		
100.0	100.0	100.0	100.0	100.0	100.0		

V. 6. Labor requirement for one hectare of paddy.

System	Sowing Nursery bed		land preparation		Transplanting		Harvesting		Total	
	Hours	%	Hours	%	Hours	%	Hours	%		
B I M A S	37.0	3.0	435.0	35.2	407.4	33.0	355.8	28.8	1,234.2	100
New B I M A S	39.0	3.0	483.4	37.0	392.2	30.0	392.2	30.0	1,307.1	100
I N M A S	35.2	3.0	398.4	34.0	409.8	34.9	329.3	28.1	1,172.7	100
Non Intensification	33.3	3.0	499.7	45.0	244.4	22.0	333.2	30.0	1,110.6	100

Source: Dinas Pertanian Rakyat Propinsi Sulawesi Selatan.

Fig. 10. Average labor requirement for one hectare of paddy.



V. 7 Development of the Secondary Crops Cultivation area in
South Sulawesi (1969 - 1976)

Unit: ha.

No. Year	S e c o n d a r y C R O P S							
	Planted area ±%	Index	Harvest area ±%	Index	Production (Tons) ±%	Index	±%	Index
1. 1969	466,076	-	437,794	100	675,856	100	-	100
2. 1970	319,320	-31.49	397,951	90	582,346	86	-13.83	86
3. 1971	283,882	-11.10	292,860	67	503,517	74	-13.50	74
4. 1972	514,265	+81.15	270,909	62	524,780	78	+ 4.18	78
5. 1973	342,750	-33.35	529,122	121	750,856	108	+39.27	108
6. 1974	302,764	-11.67	252,029	57	445,084	66	-39.10	66
7. 1975	270,851	-10.54	271,373	62	414,831	61	- 6.80	61
8. 1976	447,462	+55.21	265,025	60	388,879	57	- 6.26	57
Total	2,947,730	48.21	2,716,064	5.15	4,266,344	-36.04		
Average	368,421	+6.89	339,508	0.74	533,293	- 5.15		

Source: Inspeksi Dinas Pertanian Rakyat Propinsi Dati I SulSel.

V. 8 Development of the Planted area of Secondary Crops by Commodity
in South Sulawesi (1969 - 1976)

No.	Year	A r e a of C r o p s (Ha.)							Total	%	Index
		Corn	Cassava	Sweet potato	Peanut	Green gram	Soy bean				
1.	1969	321,365	49,077	13,126	32,265	39,771	10,474	466,076	-31.49	100	
2.	1970	211,709	40,892	13,408	19,443	28,911	4,967	319,320	-11.10	69	
3.	1971	194,547	133,674	11,708	13,886	30,067	4,458	283,882	+81.15	61	
4.	1972	377,953	43,523	14,453	26,146	45,043	7,146	514,265	-33.35	110	
5.	1973	226,381	44,886	11,841	24,418	27,855	7,370	342,750	-11.67	74	
6.	1974	179,236	36,692	10,866	37,924	28,236	9,810	302,764	-10.54	65	
7.	1975	163,811	31,454	8,410	32,870	27,454	6,835	270,851	+65.21	58	
8.	1976	286,439	36,476	11,025	56,589	43,935	13,007	447,462		96	
Annual Average		245,180	39,582	11,654	30,443	33,909	80,104	368,421	+ 6.92		

Source: Perkiraan Masalah Pembangunan Pertanian Propinsi SulSel. dalam Pelita III.

V. 9 Development of the harvest area of secondary crops by commodity in
South Sulawesi (1969 - 1976)

Unit: ha

No. Year	Harvested acreage of secondary crops								± %	Index
	Corn	Cassava	Sweet potato	Peanuts	Green gram	Soy beans	Total			
1. 1969	316,061	44,684	13,197	26,264	30,149	7,439	437,794	- 9.33	100	
2. 1970	280,850	35,963	11,971	29,551	31,983	6,632	396,951	-26.22	91	
3. 1971	194,711	32,634	11,211	20,984	29,187	4,133	292,860	- 7.50	67	
4. 1972	167,364	42,576	12,212	14,826	30,975	2,955	270,909	-95.31	62	
5. 1973	408,885	40,462	11,585	33,968	28,123	6,300	529,122	-52.37	121	
6. 1974	151,122	37,303	9,536	22,159	23,614	8,295	252,029	- 7.6	58	
7. 1975	164,506	31,622	8,510	40,780	18,919	7,235	271,373	- 2.34	62	
8. 1976	172,571	29,454	7,554	23,376	24,284	7,789	265,026		61	
Total	1,856,070	294,695	83,376	211,911	217,234	50,778	2,216,064	+ 5.15		
Average	232,009	36,837	10,672	26,489	27,154	6,347	339,508	+ 0.74		

Source: Data from Diperta SulSel.

V. 10 Development of production of secondary crops by commodity
in South Sulawesi (1969-1976)

Unit: tons

No. Year	Production volume of secondary crops								Total	± %	Index
	Corn	Cassava	Sweet potato	Peanut	Green gram	Soy bean					
1. 1969	224,783	341,217	70,474	18,438	14,743	5,928	675,856			100	
2. 1970	212,767	267,012	59,013	21,041	17,883	4,628	582,346		-13.83	86	
3. 1971	144,449	265,597	62,084	14,206	14,562	2,817	503,715		-13.50	75	
4. 1972	117,842	315,744	64,742	8,680	15,021	1,950	524,780		+ 4.18	78	
5. 1973	336,980	295,310	58,872	22,705	12,792	4,199	730,856		+39.27	108	
6. 1974	94,982	270,026	50,470	13,665	10,629	5,312	445,084		-39.10	66	
7. 1975	106,958	228,570	41,822	23,897	9,182	4,403	414,832		- 6.80	61	
8. 1976	115,465	209,121	35,116	13,719	10,924	4,534	388,879		- 6.26	58	
Average	169,278	274,074	55,358	17,044	13,317	4,221	533,293		- 5.15		

Source: Perkiraan Masalah Pembangunan Pertanian Propinsi SulSel. dalam Pelita III.

7. 11 Development of production of corn, Cassava and sweet potato
in South Sulawesi (1969 - 1976)

No. Year	C o r n			C a s s a v a			S w e e t p o t a t o		
	Production ton	Productivity t./ha ± %	Index ± %	Production ton	Productivity t./ha ± %	Index ± %	Production ton	Productivity t./ha ± %	Index ± %
1. 1969	224,783	7.11	100	341,217	76.36	100	70,747	53.61	100
	- 5.35	+ 6.33		-21.75	-2.76		-16.59	- 8.04	
2. 1970	212,767	7.56	95	257,012	74.25	78	59,013	49.30	83
	-32.11	- 1.85		- 0.53	+9.62		+ 5.20	+12.33	
3. 1971	144,449	7.42	64	265,597	81.39	78	62,084	55.38	88
	-18.42	- 5.12		+18.88	-6.14		+ 4.28	- 4.28	
4. 1972	117,842	7.04	52	315,744	76.16	92	64,742	53.38	91
	+185.96	+ 4.26		- 6.47	-4.18		- 9.07	- 2.45	
5. 1973	336,979	7.34	150	295,309	72.98	86	58,872	51.93	83
	-54.20	-17.20		- 8.56	+6.04		-14.25	+ 2.36	
6. 1974	94,982	6.29	42	270,026	77.39	79	50,470	52.93	71
	+12.01	+ 3.34		-15.35	-6.60		-17.13	- 4.93	
7. 1975	106,958	6.50	47	228,570	72.28	67	41,822	50.32	59
	+ 7.95	+ 2.92		- 8.51	-7.76		-16.03	÷ 7.63	
8. 1976	115,465	6.69	51	209,121	71.01	61	35,116	46.48	49
Total	1,354,229	95.84	2,192,600	601.82	-5.78	442,864	-63.58	412.74	2.62
Average	169,278	13.69	274,075	75.22	-0.82	55,358	- 9.08	51.59	0.37

Source: Perkiraan masalah Pembangunan Pertanian Propinsi Sul-Sel. dalam Pelita III.

V. 12. Development of production of Peanut, Green gram and Soy beans
in South Sulawesi (1969 - 1976)

No. Year	P e a n u t		G r e e n		S o y b e a n s							
	Production ton	Productivity t./ha %	Index	Production t./ha %	Index	Production ton	Productivity t./ha %	Index				
1. 1969	18,438	7.04 14.11	100	4.89	100	5,928	7.97	100				
		+ 1.13		+21.30			-21.92	- 9.03				
2. 1970	21,041	7.12 -32.48	114	5.59	121	4,628	6.98	78				
		+10.62		-39.15			-39.15	- 2.45				
3. 1971	14,206	6.77 -38.92	77	4.99	99	2,817	6.81	48				
		-13.59		+ 8.65			-30.76	- 3.08				
4. 1972	8,679	5.85 +161,181	47	5.11	107	1,950	6.60	32				
		+14.19		-19.15			+115.30	+ 0.91				
5. 1973	22,705	6.68 -39.81	123	4.55	87	4,199	6.66	71				
		- 7.63		-16.91			+26.52	- 0.90				
6. 1974	13,665	6.47 +74.87	74	4.50	72	5,312	6.40	90				
		- 5.02		-13.61			-17.12	- 5.00				
7. 1975	23,897	5.86 -42.59	130	4.85	62	4,403	6.08	74				
		+ 0.17		+18.79			+ 2.99	- 4.27				
8. 1976	13,719	5.87	74	4.50	74	4,534	5.82	76				
Total	136,350	96.38	5166	-13	106,535	19.32	38.98	- 5.52	33,771	35.86	53.32	-26.80
Acreage	17,044	+13.82	6,46	0,02	13,317	-2.76	4.87	- 0.79	4,221	+ 5.12	6.66	-382

Source: Perkiraan Masalah Pembangunan Pertanian Propinsi Sul-Sel. dalam Pelita III.

V. 13 Acreage of planted area with corn by Kabupaten
in South Sulawesi (1969 - 1976)

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	3,474	1,632	1,357	3,574	4,542	4,566	3,275	2,683
2. Tator	5,478	4,512	2,222	9,854	1,677	1,451	1,623	6,760
3. Soppeng	22,075	17,722	19,223	42,603	19,007	12,993	11,495	15,308
4. Wajo	19,203	6,212	42,938	12,938	12,948	5,579	4,832	30,425
5. Bone	55,640	11,774	18,515	64,403	28,866	19,205	20,974	54,472
6. Sinjai	25,355	18,952	15,035	26,560	8,673	15,167	15,079	20,949
7. Bulukumba	34,474	25,169	28,068	36,966	32,806	26,134	22,735	35,100
8. Selayar	17,491	17,552	17,550	17,476	16,442	18,812	19,521	21,462
9. Bantaeng	21,334	14,235	9,613	13,898	10,712	10,698	8,811	14,817
10. Jenepono	27,972	44,907	30,235	29,879	41,125	24,079	22,889	29,898
11. Takalar	7,733	5,041	5,001	6,989	11,320	5,867	4,016	5,135
12. Gowa	25,087	16,192	18,099	25,309	15,991	15,744	13,597	24,116
13. K.M. U. Pandang	6	3	-	3,115	15	1,739	37	526
14. Maros	13,838	6,945	558	3,498	682	922	581	1,924
15. Pangkep	2,730	2,852	511	2,270	1,700	832	600	1,053
16. Barru	9,409	3,180	5,646	6,432	1,007	1,566	1,601	2,681
17. K.M. Pare-Pare	1,280	1,140	1,225	1,315	1,230	486	272	790
18. Sidrap	2,047	343	362	12,762	1,925	831	419	1,666
19. Enrekang	9,405	5,114	5,521	6,110	4,464	2,848	3,296	5,642
20. Pinrang	2,696	2,192	3,451	5,395	1,164	1,363	670	3,001
21. Polmas	11,856	3,780	4,691	10,295	4,009	3,145	3,141	3,556
22. Majene	97	736	350	820	726	159	433	469
23. Mamuju	1,782	1,187	602	5,495	5,355	5,051	3,915	4,508
Total	321,367	211,709	194,547	377,953	226,381	179,236	168,811	286,439

Source: Kabupaten Kabupaten Sulawesi Selatan

V. 14 Acreage of harvest area of corn by Kabupaten in South Sulawesi (1969-1976)

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	2,993	1,701	1,124	1,825	4,433	4,216	3,333	2,209
2. Tator	4,361	4,619	4,695	1,848	9,541	2,129	1,363	1,562
3. Soppeng	18,688	22,398	18,553	15,289	44,485	16,048	10,509	10,712
4. Wajo	9,780	13,806	4,108	8,105	38,944	4,093	6,478	9,980
5. Bone	67,254	43,337	24,760	17,748.98	70,189	12,572	21,945	18,748
6. Sinjai	20,310	24,426	17,173	14,686	26,340	8,661	14,891	16,875
7. Bulukumba	31,069	35,603	23,706	25,666.5	45,650	25,074	27,354	25,200
8. Selayar	16,678	17,258	17,218	15,958	16,745	9,778	14,990	20,242
9. Bantaeng	40,736	15,306	11,256	8,860	14,479	12,756	8,617	10,068
10. Jeneponto	32,847	33,679	25,475	23,600	44,297	21,390	23,228	23,926
11. Takalar	9,784	5,943	5,032	4,328	13,553	4,255	3,995	2,966
12. Gowa	21,520	22,143	16,854	14,064	25,798	11,384	13,829	14,029
13. K.M.U.P.	5	2	2	4	2,785	1,662	36	1,149
14. Maros	6,804	12,110	1,837	583.50	5,576	705	652	708
15. Pangkep	1,323	1,759	1,174	315	3,066	1,008	685	769
16. Barru	5,187	5,586	3,368	1,809	6,765	662	1,476	2,056
17. K.M.Pare-Pare	1,040	790	1,210	1,220	1,620	818	166	306
18. Sidrap	689	859	351	823.30	11,295	725	371	347
19. Enrekang	7,217	6,021	6,365	2,831	7,867	2,838	3,399	3,446
20. Pinrang	2,089	2,133	3,849	614	3,844	1,313	698	1,443
21. Polmas	13,487	9,782	5,246	3,120.50	7,705	2,987	2,447	1,841
22. Majene	558	784	555	193	1,343	170	302	444
23. Mamuju	1,572	800	800	3,872	4,266	5,877	3,743	4,365
T o t a l	16,061	280,850	194,711	167,363.78	408,885	151,125	164,506	72,571

Source: Data from Diperta SulSel.

V. 15 Acreage of damaged area of corn by Kabupaten in South Sulawesi (1968-1976)

No. Kabupaten	1968	1970	1971	1972	1973	1974	1975	1976
1. Luwu	264	185	209	194	520	586	357	246
2. Tator	13	-	4	116	60	10	1	36
3. Soppeng	1,289	186	30	653	1,258	395	-	130
4. Wajo	10,784	4,572	412	1,787	7,057	596	939	4,470
5. Bone	1,127	796	1,959	1,644	4,963	3,178	1,710	1,415
6. Sinjai	729	809	1,407	676	353	243	88	317
7. Bulukamba	217	238	854	1,251	780	336	121	151
8. Selayar	1,143	410	456	2,204	1,694	7,007	5,242	1,554
9. Bantaeng	598	504	252	239	513	186	137	189
10. Jeneponto	1,323	3,057	7,443	1,524	667	628	672	365
11. Takalar	2,219	865	1,344	94	827	1,311	219	134
12. Gowa	8,618	3,309	2,703	3,239	1,201	2,311	706	131
13. K.M.U.P	-	-	-	1	330	82	3	7
14. Mars	132	228	-	20	26	27	12	9
15. Pangkep	63	6	1,774	266	107	32	10	12
16. Barru	156	-	141	142	46	80	68	84
17. K.M.Pare-Pare	3	384	15	95	-	15	-	18
18. Sidrap	70	976	17	1,458	1,158	108	1	104
19. Parekang	48	674	101	40	55	144	213	184
20. Pinrang	85	63	603	1,612	657	52	14	-
21. Polmas	1,432	98	15	1,289	2,108	336	235	477
22. Majene	87	229	46	8	38	37	41	31
23. Mamuju	134	66	116	319	463	561	388	350
Total	30,354	17,655	19,901	18,791	24,881	18,264	11,186	10,414

Source: Data from Direktorat SulSel.

V. 16 Production of corn by Kabupaten in South Sulawesi (1969-1976)

No. Kabupaten	1969	1970	1971	1972	1973	1969-73	1974	1975	1976
1. Luwu	2,394	1,361	899	1,941	3,950	2,019	2,553	2,025	1,270
2. Tator	2,779	2,771	2,816	1,407	6,691	3,293	2,292	974	1,130
3. Soppeng	18,617	22,174	15,605	13,832	41,131	22,272	13,594	8,758	8,603
4. Wajo	10,537	10,050	4,360	8,331	49,746	16,569	3,924	5,359	8,963
5. Bone	48	30,336	18,583	10,694	52,903	32,288	5,787	11,532	9,536
6. Sinjai	15,166	17,098	12,865	10,979	20,273	15,276	5,510	10,308	17,596
7. Bulukumba	24,885	28,482	15,172	14,356	37,941	24,161	13,562	15,634	12,169
8. Selayar	10,864	12,081	10,600	8,936	11,331	10,726	6,571	9,690	12,661
9. Bantaeng	16,731	12,092	8,217	5,620	10,545	10,641	8,034	6,123	7,050
10. Jeneponto	20,577	23,575	19,222	16,332	31,055	22,152	12,425	16,462	15,298
11. Takalar	5,871	3,566	4,031	4,114	9,267	5,370	2,914	2,341	2,396
12. Gowa	15,140	17,165	10,710	10,219	18,729	14,393	5,125	7,688	7,265
13. K.M.U.P	4	6	1	2	1,393	280	997	15	88
14. Maros	5,443	8,477	1,251	408	2,270	3,570	410	351	461
15. Pangkep	1,191	1,583	1,057	3,314	2,407	1,311	806	532	615
16. Barru	3,112	3,352	3,181	899	3,381	2,785	374	851	1,200
17. K.M.Pare-Pare	624	474	726	731	972	705	435	100	1,184
18. Sidrap	689	859	475	823	12,655	3,100	575	262	244
19. Enrekang	7,217	6,021	6,365	2,052	6,241	5,959	1,790	2,215	2,340
20. Pinrang	1,880	1,920	3,079	553	3,456	2,178	1,241	676	1,399
21. Polmas	10,789	7,826	4,197	2,496	6,038	6,269	2,210	1,800	1,179
22. Majene	502	706	502	174	1,209	618	153	272	400
23. Mamuju	1,235	800	353	3,078	3,393	1,808	4,702	2,991	3,419
T o t a l	224,783	212,778	144,449	117,851	336,992	207,374	94,993	106,970	115,465

Form of products dry grade

Source: Data from Lixerta SulSel.

V. 17 Acreage of planted area of cassava by Kabupaten in South Sulawesi (1969 - 1976)

No.	Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	2,218	816	610	2,962	2,742	2,496	2,475	1,588
2.	Ta'tor	3,130	3,777	4,245	8,738	2,939	3,965	3,113	3,567
3.	Soppeng	144	137	154	170	154	79	64	95
4.	Wajo	786	817	2,426	2,970	2,650	1,383	695	700
5.	Bone	1,057	922	1,151	2,293	2,066	1,039	769	3,920
6.	Sinjai	1,495	1,477	637	1,425	1,139	1,445	844	905
7.	Bulukumba	2,338	5,540	2,100	2,414	3,910	1,975	2,239	3,165
8.	Selayar	1,737	1,710	1,301	840	563	452	424	409
9.	Bantaeng	459	513	615	236	256	274	232	651
10.	Jeneponto	2,978	2,037	4,294	1,525	2,034	2,551	3,234	3,352
11.	Takalar	1,175	622	593	689	739	1,694	442	295
12.	Gowa	5,115	6,973	1,369	2,453	3,341	5,797	4,356	3,686
13.	K.M.U.P.	9	6	-	1,751	3,831	3,123	467	749
14.	Maros	14,499	4,021	552	949	847	667	666	1,281
15.	Pangkep	1,473	431	722	913	1,066	913	868	1,114
16.	Barru	374	302	336	275	118	236	205	343
17.	K.M.Pare-Pare	718	615	715	589	1,461	718	195	475
18.	Sidrap	269	366	285	1,355	855	530	337	504
19.	Enrekang	872	1,326	1,073	900	1,753	1,055	1,420	1,251
20.	Pinrang	502	614	608	784	2,725	1,088	549	531
21.	Polmas	3,658	4,141	4,233	4,952	6,007	5,261	3,534	4,111
22.	Matene	3,484	3,239	4,477	2,795	2,437	1,227	2,727	2,067
23.	Mamuju	587	483	1,146	1,546	1,264	1,555	1,511	1,709
T o t a l		49,077	40,884	33,676	43,526	44,890	36,696	31,458	36,467

Source: Data from Diperta SulSel.

V. 18 Acreage of harvest area of cassava by Kabupaten
in South Sulawesi (1969 - 1976)

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	2,212	753	448	1,578	2,332	2,345	2,236	1,375
2. Tator	3,549	2,650	3,296	6,689	4,325	3,734	3,835	3,383
3. Soppeng	152	106	155	74	119	136	77	49
4. Wajo	602	733	1,582	1,698	3,024	1,690	863	924
5. Bone	910	985	691	778	2,124	1,879	801	489
6. Sinjai	1,309	978	722	993	1,234	1,104	988	935
7. Bulukumba	3,978	4,149	2,501	3,309	3,734	1,883	1,782	2,324
8. Selayar	1,355	1,625	1,364	702	456	348	354	372
9. Bantaeng	485	603	576	384	116	130	182	311
10. Jeneponto	3,577	1,759	2,590	3,611	1,393	1,703	2,804	3,219
11. Takalar	1,474	741	518	523	735	642	1,167	597
12. Gowa	5,533	7,812	2,423	5,219	4,048	4,065	5,059	3,262
13. K.M.U.P.	6	6	3	1,681	2,996	3,010	526	475
14. Maros	8,375	4,071	3,087	2,522	2,116	853	329	1,370
15. Pangkep	1,231	738	761	467	1,136	1,170	894	931
16. Barru	521	246	234	242	226	125	115	184
17. K.M.Pare-Pare	381	576	700	625	715	1,229	198	595
18. Sidrap	317	332	373	566	1,037	842	413	457
19. Enrekang	866	808	1,173	920	942	1,102	1,470	896
20. Pinrang	452	522	605	450	841	2,508	572	620
21. Polmas	3,846	2,302	3,888	4,404	3,911	4,356	3,628	3,198
22. Majene	3,174	3,259	4,461	3,604	1,706	1,189	1,936	1,949
T o t a l	44,684	55,965	32,634	42,576	40,464	37,305	31,625	29,452

Source: Data from Diperta SulSel.

V. 19 Acreage of damaged area of cassava by Kabupaten
in South Sulawesi (1969 - 1976)

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	166	102	140	149	542	448	446	293
2. Tator	70	-	1	25	6	18	7	87
3. Soppeng	45	-	-	80	10	-	-	-
4. Wajo	104	171	75	552	366	58	66	48
5. Bone	92	67	383	55	194	114	53	50
6. Sinjai	117	283	151	197	142	109	72	31
7. Bulukumba	237	33	266	289	47	149	27	4
8. Selayar	309	111	289	836	534	91	79	59
9. Bantaeng	36	115	88	115	68	43	21	11
10. Jeneponto	-	79	93	113	152	64	23	9
11. Takalar	14	15	51	12	12	13	1	1
12. Gowa	384	261	165	626	165	133	85	60
13. K.M.U.P.	1	-	-	70	404	248	29	-
14. Maros	124	15	-	50	14	15	3	-
15. Pangkep	6	32	22	90	23	14	75	5
16. Barru	-	52	29	44	8	18	29	33
17. K.M.Pare-Pare	7	17	5	-	2	4	-	-
18. Sidrap	7	11	-	148	27	3	-	6
19. Enrekang	300	288	82	71	55	157	125	102
20. Pinrang	47	45	93	35	174	354	15	3
21. Polmas	181	219	695	360	1,388	319	291	302
22. Majene	178	104	124	800	296	275	205	140
23. Mamuju	118	140	109	187	135	145	179	180
T o t a l	2,603	2,160	2,662	5,105	4,766	2,751	1,888	1,420

Unit: ha.

Source: Data from Diperta SulSel.

V. 20 Production of Cassava by Kabupaten in South Sulawesi
(1969 - 1976)

No.	Kabupaten	Unit: tons							
		1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	11,060	10,029	3,532	11,142	15,938	14,693	12,533	7,351
2.	Taori	24,843	18,550	23,072	43,700	34,908	26,201	29,268	25,074
3.	Soppeng	1,325	1,060	1,550	667	950	1,104	591	381
4.	Wajo	7,375	7,187	15,100	14,009	33,312	19,602	8,696	8,814
5.	Bone	5,666	6,005	3,237	3,829	9,290	11,186	5,019	2,625
6.	Sinjai	8,509	5,444	4,149	5,157	7,996	7,271	6,429	6,526
7.	Bulukumba	31,824	35,537	17,012	28,703	23,906	13,166	12,757	15,596
8.	Selayar	8,808	11,700	10,498	4,529	3,220	2,261	2,405	2,355
9.	Bantaeng	3,977	4,671	4,723	2,602	796	965	1,244	2,141
10.	Jeneponto	28,616	12,313	18,310	22,045	9,014	11,135	18,962	24,540
11.	Takalar	14,740	7,410	6,782	2,723	6,051	4,637	8,013	4,606
12.	Gowa	35,965	48,825	14,197	30,498	24,570	24,205	34,519	20,880
13.	K.M.U.P.	60	24	24	11,745	17,498	18,060	3,528	3,114
14.	Maros	50,250	20,355	21,606	17,654	12,392	5,308	1,633	5,869
15.	Pangkep	8,617	5,535	6,065	3,977	8,077	9,360	7,152	7,448
16.	Barru	2,236	1,599	1,404	1,386	1,552	937	736	1,171
17.	K.M.Pare-Pare	2,345	2,440	3,012	3,569	4,099	4,916	792	2,380
18.	Sidrap	2,536	2,656	2,923	4,891	7,152	6,072	2,634	3,242
19.	Barekang	8,660	8,080	11,730	6,900	7,441	8,304	11,099	7,875
20.	Pinrang	3,616	4,176	4,840	2,784	6,728	27,751	6,577	7,153
21.	Polmas	30,460	23,020	38,880	44,040	35,174	33,580	28,201	24,319
22.	Ikajene	38,088	34,749	47,071	43,248	20,472	14,268	21,214	19,450
T o t a l		341,217	267,015	265,597	315,751	295,317	270,033	229,579	209,121

From of Products: damp root

Source: Data from Diperta Sulsel.

V. 21 Acreage of planted area of sweet potato in South Sulawesi
(1969 - 1976)

No.	Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1.	I u w u	279	316	271	654	1,143	1,210	1,158	940
2.	T a t o r	1,659	4,281	3,469	6,878	2,291	2,613	1,741	1,793
3.	Soppeng	179	120	180	52	64	77	69	86
4.	W a j o	362	557	825	391	893	447	313	366
5.	B o n e	1,249	667	795	784	945	608	382	2,155
6.	Sinjai	459	793	1,184	820	493	494	405	315
7.	Bulukumba	2,793	2,753	863	83	888	1,022	784	1,267
8.	Selayar	282	278	235	248	156	170	179	192
9.	Bantaeng	380	330	339	211	186	175	184	103
10.	Jenepono	77	111	141	102	225	114	91	134
11.	Takalar	490	308	327	162	536	313	179	211
12.	G o w a	1,748	420	563	913	1,278	836	732	573
13.	K.M.U.P.	12	8	1	192	10	19	59	76
14.	M a r o s	899	341	190	306	227	207	190	225
15.	Pangkep	284	279	300	721	656	389	263	411
16.	B a r r u	211	210	262	252	291	379	192	272
17.	K.M.Pare2	38	19	68	60	45	17	29	11
18.	Sidrap	133	49	164	161	99	96	54	121
19.	Brekang	446	453	369	170	123	87	133	112
20.	Pinrang	256	157	249	251	251	309	156	176
21.	Polmas	494	728	700	592	471	493	348	379
22.	Majene	98	63	54	64	135	102	109	192
23.	Mamuju	290	166	159	386	436	691	662	917
T o t a l		13,126	13,407	11,708	14,453	11,844	10,866	8,415	11,025

Unit: ha.

Source: Data from Diperta SulSel.

V. 22. Acreage of harvest area of sweet potato by Kabupaten in South Sulawesi (1969 - 1976)

No.	Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	330	244	238	449	732	1,164	1,143	844
2.	Taori	2,985	3,145	3,065	5,237	2,538	2,027	2,218	1,352
3.	Soppeng	164	119	135	42	55	81	53	82
4.	Wajo	371	466	749	526	693	520	325	293
5.	Bone	980	774	513	621	1,011	569	366	233
6.	Sinjai	453	476	607	789	590	539	389	312
7.	Bulukumba	2,514	2,817	1,919	837	628	745	593	771
8.	Selayar	265	282	270	197	153	126	147	161
9.	Bantaeng	236	325	267	211	120	178	119	144
10.	Jeneponto	65	75	305	191	252	81	81	122
11.	Takalar	503	361	505	86	504	307	179	140
12.	Gowa	1,342	717	583	524	1,254	745	561	647
13.	K.M.U.P.	9	8	4	191	7	22	57	69
14.	Maros	849	373	205	285	362	191	219	157
15.	Pangkep	274	252	273	444	739	353	329	395
16.	Barru	175	182	215	277	293	347	161	208
17.	K.M. Pare2	28	21	58	57	50	26	23	16
18.	Sidrap	117	89	159	77	116	105	57	84
19.	Birekang	387	431	382	173	82	93	77	60
20.	Pinrang	220	160	265	123	235	292	187	200
21.	Polmas	654	470	673	544	414	409	3316	279
22.	Majene	101	65	46	67	78	126	54	196
23.	Mamuju	175	119	170	244	380	490	647	801
T o t a l		13,197	11,971	11,311	12,212	11,388	9,537	8,315	7,554

Source: Data from Diperta SulSel.

V. 23 Production of sweet potato by Kabupaten in South Sulawesi
(1969 - 1976)

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	990	977	1,570	2,911	4,099	4,839	4,696	3,487
2. T a t o r	17,910	18,870	18,390	29,700	17,838	14,950	15,304	8,367
3. Soppeng	984	714	810	252	339	482	397	450
4. W a j o	2,983	3,647	4,979	2,509	3,553	3,149	2,185	1,643
5. B o n e	3,453	2,593	1,075	1,969	3,509	2,378	1,821	1,002
6. Sinjai	2,492	2,332	2,923	3,061	2,432	2,708	1,807	1,381
7. Bulukumba	12,570	9,565	10,752	4,600	4,352	3,574	2,557	3,714
8. Selayar	1,687	1,833	1,678	965	633	536	644	618
9. Bantaeng	1,599	2,158	1,682	1,155	690	1,048	714	864
10. Jeneponto	455	450	633	919	1,490	457	445	762
11. Takalar	3,018	2,166	2,183	558	3,025	2,041	909	748
12. G o w a	6,039	2,581	1,667	1,771	4,182	2,323	1,740	1,917
13. K.M.U.P.	45	40	28	1,146	35	121	222	299
14. M a r o s	5,094	1,492	1,107	1,539	1,256	941	830	590
15. Pangkep	1,096	1,008	1,337	2,606	3,163	1,396	1,316	1,580
16. B a r i u	1,130	1,092	1,290	2,311	1,849	1,871	760	1,188
17. K.M. Pare2	98	84	230	228	188	82	87	56
18. Sidrap	702	534	1,118	464	669	680	396	596
19. Ebrekang	1,392	2,155	1,910	1,124	475	488	363	250
20. Pinrang	1,430	1,040	1,723	780	1,522	1,831	1,218	1,598
21. Polmas	3,924	2,820	4,038	3,264	2,346	2,348	1,826	1,310
22. Majene	606	390	276	402	468	756	324	1,176
23. Mamuju	1,050	476	685	488	760	1,470	1,296	1,511
T o t a l	70,747	59,035	62,084	62,748	58,883	50,477	41,829	35,116

Source: data from Diferata SulSel.

V. 24. Acreage of Planted area of peanut by Kabupaten in South Sulawesi (1969-1976)

No.	Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	290	213	175.90	468	583.50	693.00	913.00	689
2.	Tato	643	731	139	668	291	258.00	169.27	531
3.	Soppeng	4,352	2,528	1,664	2,943	3,669	3,871.00	2,438.00	2,086
4.	Wajo	3,165	32	497	1,371	232	169.00	1,079.50	11,354
5.	Bone	5,753	1,146	1,950	8,752.27	4,210	6,685.75	6,349.65	28,859
6.	Sinjai	5,965	3,562	2,671	3,163	1,423	3,073.00	4,100.00	3,359
7.	Bulukumba	5,838	3,988	2,059	2,531	3,797.34	11,288.66	9,344.98	2,754
8.	Selayar	132	131	109	114	30	137.00	137.00	157
9.	Pantaeng	3,316	2,544	813	555	3,276	4,240.00	4,045.00	1,158
10.	Jeneponto	1,075	356	198	532	817	1,909.00	747.00	444
11.	Takalar	115	134	96	50	125	116.00	137.00	107
12.	Gowa	245	183	118	89	143	144.00	149.00	251
13.	K.M.U.P.	-	-	-	9	6	65.50	43.50	68
14.	Maros	501	744	220	231	241.50	216.40	187.90	145
15.	Pangkep	120	53	219	184	381.10	121.00	324.50	422
16.	Barru	989	1,613	1,660	2,345	3,230	3,260.00	1,154.75	1,922
17.	K.M.Pare2	58	20	26	47	48	16.00	60.60	54
18.	Sidrap	691	118	173	720.40	115.45	144.00	104.00	288
19.	Brekang	281	632	481	403	638	310.00	405.00	628
20.	Pinrang	262	175	308	245	356	381.00	178.00	192
21.	Polmas	154	171	187	199	113	149.00	155.50	125
22.	Majene	105	90	77	48	131	83.00	71.00	152
23.	Mamuju	217	249	35	478	521	594.00	575.00	845
T o t a l		32,265	19,443	13,885.50	26,145.67	24,417.89	37,924.31	32,869.50	56,589

Source : data from Diperta SulSel.

V. 25 Acreage of harvest arce of peanut by Kabupaten in South Sulawesi
(1969 - 1976)

No.	Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	297	193	226	313.50	443.30	536.00	905.50	635
2.	Tator	515	685	757	313	579	296.50	211.57	160
3.	Soppeng	2,998	2,947	2,692	1,586	4,898	3,053.00	3,020.00	2,177
4.	Wajo	2,646	3,003	417	264	1,243	74.00	1,087.00	1,199
5.	Bone	5,038	5,135	3,674	2,447.9	9,526.82	3,178.75	7,365.90	6,208
6.	Sinjai	4,087	5,550	3,663	2,756	2,892	1,565.00	3,219.00	3,965
7.	Bulukumba	2,393	3,608.50	4,637	2,117	4,528.84	4,236.00	15,180.13	2,716
8.	Selayar	119	130	123	95	82	61.00	140.00	122
9.	Bantaeng	3,116	3,030	892	630	2,972	3,183.00	5,061.00	1,043
10.	Jeneponto	470	914	380	206	747	613.00	1,118.00	670
11.	Takalar	155	135	74	44	126	49.00	144.00	93
12.	Gowa	207	201	86	87	123	105.00	133.00	211
13.	K.M.U.P.	-	-	-	7.50	3	60.50	43.50	35
14.	Maros	501	744	225	195.75	201.50	248.65	198.80	131
15.	Pangkep	120	53	208	183	368.10	120.00	312.00	418
16.	Baruru	1,352	1,693	1,643	2,262	3,198	171.00	1,119.00	1,803
17.	K.M.Pare2	73	20	26	45.50	34	28.00	51.60	54
18.	Sidrap	264	512	181	201	415.45	101.75	142.00	33
19.	Enrekang	317	391	613	313	617	475.00	364.00	403
20.	Pinrang	194	213	241	132	315	289.00	296.00	207
21.	Polmas	140	129	160	166	107	110.00	122.00	119
22.	Kajene	111	89	66	64	100	87.00	61.00	109
23.	Mamuju	151	175	-	397	448	518.00	520.00	814
T o t a l		26,264	29,553	20,984	14,862.15	33,968.01	22,159.15	40,779.50	23,736

Source: data from Diperta Sulsel.

V. 26. Acreage of damaged area of peanut by Kabupaten in South Sulawesi (1968 - 1976)

No.	Kabupaten	1968	1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	4	6	35.5	-	86.50	89.70	80	85	45
2.	Taator	-	-	-	94	-	-	-	-	19
3.	Soppeng	-	2	-	66	527	-	-	-	-
4.	Wajo	401	159	223	13	279	188	4	106	2,035
5.	Bone	38	53	32	74	511.75	70.50	402	134	190
6.	Sinjai	15	31	9	48	78	37	21	13	18
7.	Bulukumba	-	14	23.50	86	50	30.50	134	60	6
8.	Selayar	12	8	4	5	21	26	16	21	18
9.	Bantaeng	79	100	119	64	32	63	74	55	4
10.	Jeneponto	16	-	-	-	9	40	140	612	-
11.	Takalar	5	-	-	15	6	7	4	6	16
12.	Gowa	-	1	4	5	39	13	10	6	54
13.	K.M.U.P.	-	-	-	-	1.50	1.50	4	-	8
14.	Maros	-	-	-	-	13.25	5	40	2	1
15.	Pangkep	-	-	-	1	11	13	3	12	4
16.	Barru	5	-	3	37	82	79	59	40	40
17.	K.M.Pare2	-	109	-	-	1.50	2	-	-	-
18.	Sidrap	-	100	8	-	214.15	52	1	3	-
19.	Barekang	9	34	80	5	4	7	2	8	11
20.	Pinrang	14	9	7	36	79	86	68	1	1
21.	Polmas	29	6	31	39	40	23	25	21	13
22.	Majene	8	54	2	1	-	15	12	5	9
23.	Mamuju	31	8	83	-	66	56	67	70	101
Total		666	694	664	589	2,151.65	904.20	1,066	1,260	2,590

Source: data from Diperta SulSel.

V. 27 Production of peanut by Kabupaten in South Sulawesi
(1969 - 1976)

No.	Kabupaten	Unit: tons									
		1969	1970	1971	1972	1973	1974	1975	1976		
1.	Luwu	208.00	135.10	130.00	199.10	241.07	282.85	545.05	387		
2.	Taator	309.00	411.60	454.00	163.09	398.75	215.49	154.27	118		
3.	Soppeng	2,530.00	2,357.60	2,071.50	1,125.50	3,658.60	2,191.80	2,408.10	1,576		
4.	Wajo	1,985.00	2,104.00	316.00	200.90	859.84	57.45	747.50	821		
5.	Bone	2,830.00	2,310.75	1,505.00	1,018.22	5,438.02	1,371.74	4,236.10	2,998		
6.	Sinjai	3,269.00	4,717.50	3,165.00	1,896.40	2,139.21	1,041.36	2,221.05	1,728		
7.	Bulukumba	2,154.00	3,082.65	3,215.00	990.20	2,846.71	2,590.05	9,242.06	1,525		
8.	Selayar	71.00	91.00	30.00	38.00	57.32	43.64	84.25	80		
9.	Bantaeng	2,013.00	2,333.00	562.00	360.88	2,250.79	2,182.05	2,671.55	710		
10.	Jeneponto	235.00	543.00	190.00	103.00	558.80	343.56	879.28	351		
11.	Takalar	109.00	94.50	38.00	17.80	60.90	37.90	70.60	43		
12.	Gowa	166.00	154.80	57.00	139.40	74.30	66	71.05	93		
13.	K.M.U.P.	-	-	-	4.05	0.75	40.30	29.75	21		
14.	Maros	401.00	446.00	207.00	156.60	94.49	136.93	79.76	60		
15.	Pangkep	120.00	47.70	166.40	120.60	220.36	72	187.50	293		
16.	Barru	1,082.00	1,185.00	1,150.00	1,131.00	2,359.16	2,135.51	490.10	2,036		
17.	K.M.Pare2	43.00	11.00	16.00	26.90	20.40	16.80	18.48	31		
18.	Sidrap	342.00	409.60	241.00	375.02	501.00	92.30	88.25	21		
19.	Brekang	159.00	195.50	307.00	250.40	417.20	298.25	229.02	282		
20.	Pinrang	155.00	170.00	193.00	105.60	252.00	181	184.20	155		
21.	Polmas	84.00	77.40	96.00	99.60	60.70	61.10	66.80	69		
22.	Majene	67.00	53.40	40.00	38.40	60.00	52.20	36.60	65		
23.	Mamuju	106.00	105.00	-	119.10	134.40	155	155.70	254		
Total		18,438.00	21,041	14,206.40	8,679.76	22,704.77	13,665.29	23,897.06	13,719		

Source: data from Diperta SulSel.

V. 28 Acreage of planted area of green gram by Kabupaten
in South Sulawesi (1969 - 1976)

Unit: ha.

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	65	67	196	244	349	408	325	159
2. Tator	-	-	-	-	-	-	-	-
3. Soppeng	2,296	2,046	2,432	3,237	3,451	4,873	3,467	2,821
4. Wajo	8,985	148	321	9,278	1,617	197	275	18,980
5. Bone	4,875	3,873	1,153	3,836	3,241	2,285	3,511	1,670
6. Sinjai	108	-	93	35	63	-	-	-
7. Bulukumba	1,109	1,292	884	373	328	354	167	554
8. Selayar	282	287	283	414	232	228	239	251
9. Bantaeng	187	160	256	89	119	147	45	78
10. Jeneponto	10,215	9,439	16,252	18,520	9,413	6,496	10,537	10,646
11. Takalar	2,907	2,856	2,540	1,221	2,506	2,676	2,084	2,879
12. Gowa	5,052	6,756	4,950	3,695	4,297	6,367	4,636	3,120
13. K.M.U.P.	19	9	-	810	425	577	94	300
14. Maros	906	852	412	138	127	625	53	33
15. Pangkep	256	152	-	447	398	516	150	240
16. Barru	171	24	-	349	35	242	42	521
17. K.M.Pare2	8	-	-	-	12	53	38	8
18. Sidrap	124	-	-	759	19	127	28	113
19. Breckang	227	172	196	78	138	91	109	91
20. Pinrang	197	107	286	278	149	190	77	126
21. Polmas	1,340	149	341	270	113	938	188	402
22. Majene	373	448	464	391	304	314	800	148
23. Mamuju	69	74	-	583	520	532	488	764
Total	39,771	28,911	30,167	45,044	27,858	28,237	27,454	43,935

Source: data from Diperta SulSel.

V. 29 Acreage of harvest area of green gram by Kabupaten
in South Sulawesi (1969 - 1976)

Unit: ha.

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	70	65	145	145	271	233	287	121
2. Tator	-	-	-	-	-	-	-	-
3. Poppeng	2,083	2,058	1,616	3,154	3,474	551	3,337	3,250
4. Wajo	713	5,649	141	501	7,879	155	389	2,377
5. Bone	5,816	963	3,931	1,802	3,921	2,523	2,482	1,331
6. Sinjai	25	83	45	45	35	63	-	13
7. Bulukumba	1,073	1,166	911	754	325	176	265	195
8. Selayar	264	277	290	298	227	153	205	227
9. Bantaeng	163	151	245	65	108	118	51	67
10. Jeneponto	8,904	9,561	14,071	18,462	5,271	4,228	4,060	8,492
11. Takalar	2,858	2,731	2,511	815	1,657	2,658	1,999	2,753
12. Gowa	5,040	6,435	3,715	1,063	2,706	5,760	4,141	2,863
13. K.M.U.P.	10	8	-	711	418	354	91	265
14. Maros	899	852	412	136	127	583	52	35
15. Pangkep	256	152	-	335	306	511	146	231
16. Barru	169	24	-	328	18	232	33	472
17. K.M.Pare2	8	-	-	-	2	51	25	28
18. Sidrap	-	5	-	-	70	188	47	-
19. Pinrang	144	214	193	77	161	98	94	83
20. Pinrang	171	117	233	25	188	149	94	90
21. Polmas	1,102	991	282	246	101	442	155	355
22. Majene	331	425	446	369	387	189	559	400
23. Mamuju	50	56	-	545	472	499	394	636
T o t a l	30,149	31,983	29,187	30,978	28,123	23,615	18,523	24,284

Source: data from Diperta SulSel.

V. 30 Acreege of damaged area of green gram by Kabypaten in
 South Sulawesi (1969 - 1976)

Unit: ha.

No.	Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1.	Luwu	-	9	56	43	112	102	72	13
2.	Tato	-	-	-	-	-	-	-	-
3.	Soppeng	-	-	10	292	7	-	-	-
4.	Wajo	1,243	1,480	18	1,468	1,639	11	41	4,218
5.	Bone	32	51	36	1,232	332	142	637	152
6.	Sinjai	-	-	3	-	-	-	-	2
7.	Bulukumba	9	41	71	38	13	22	2	5
8.	Selayar	7	11	15	113	43	27	24	19
9.	Bantaeng	14	11	21	24	11	13	7	2
10.	Jenepono	1,155	34	2,181	58	4,132	353	7	57
11.	Makassar	49	125	20	398	842	13	105	126
12.	Gowa	12	321	1,243	1,632	1,591	587	495	257
13.	K.M.U.P.	9	1	-	99	7	12	4	35
14.	Mars	7	-	-	-	-	15	1	-
15.	Pangkep	-	-	-	112	92	10	2	9
16.	Baruru	-	-	-	23	17	8	3	43
17.	K.M.Pare2	-	-	-	-	-	6	-	-
18.	Sidrap	119	-	-	-	707	-	-	-
19.	Sirekang	103	4	11	-	7	-	2	2
20.	Pinrang	6	6	60	80	55	8	6	-
21.	Polmas	29	100	66	34	24	462	24	51
22.	Majene	17	21	27	14	84	28	33	18
23.	Mamuju	11	20	-	38	48	33	39	73
Total		2,825	2,235	3,847	5,698	9,769	1,851	1,503	5,082

Source: data from Diperta SulSel.

V. 31 Production of green gram by Kabupaten in South Sulawesi
(1969 -- 1976)

No. Kabupaten	Unit: tons							
	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	42	39	189	89	117	115	125	54
2. Tator	-	-	-	-	-	-	-	-
3. Soppeng	1,354	1,338	1,008	1,907	1,953	2,955	2,242	1,957
4. Wajo	428	3,709	100	286	4,260	86	250	1,481
5. Bone	3,076	482	1,576	918	1,771	638	962	559
6. Sinjai	8	32	25	24	17	39	-	3
7. Billumbe	644	614	437	297	145	74	105	81
8. Selayar	106	133	129	89	94	82	91	89
9. Bantaeng	95	79	141	29	45	59	28	37
10. Jeneponto	3,676	5,737	7,036	9,231	1,814	1,424	2,011	2,967
11. Takalar	1,143	1,092	1,223	460	506	1,182	785	1,020
12. Gowa	2,520	3,218	1,856	1,139	2,004	2,316	1,789	1,435
13. K.M.V.P.	4	3	-	356	209	282	50	106
14. L. c. r. c. s	539	511	247	81	52	350	17	15
15. Pangkep	205	51	-	201	183	307	69	139
16. Barru	68	8	-	164	11	116	6	275
17. K.M. Pare2	4	-	-	-	1	24	14	14
18. Sidrap	-	3	-	-	35	50	23	-
19. Sirekang	72	107	97	38	90	49	47	50
20. Pirang	85	59	117	63	94	80	56	50
21. Poluas	440	396	113	98	40	179	63	179
22. Kajene	199	212	268	231	232	99	335	240
23. Mamuju	35	22	-	136	118	125	98	175
T o t a l	14,743	17,892	14,562	15,628	12,799	10,641	9,189	10,924

Source: data from Diperta SulSel.

V. 32 Acreage of planted area of Soy bean by Kabupaten in
 South Sulawesi (1969 - 1976)

No. Kabupaten	Unit: ha.										
	1969	1970	1971	1972	1973	1974	1975	1976			
1. Luwu	2,188	1,096	1,398	1,116	2,640	3,912	2,884	1,913			
2. Tator	-	-	-	-	-	17	34	54			
3. Soppeng	3,419	560	506	2,307	1,173	1,189	500	661			
4. Wajo	1,626	425	657	585	882	1,344	799	3,715			
5. Bone	-	15	1	70	195	180	672	572			
6. Sinjai	-	-	-	-	6	13	34	3			
7. Bulukumba	582	847	520	331	90	278	225	167			
8. Selayar	-	-	-	-	-	-	-	-			
9. Bantaeng	216	139	13	10	3	10	4	-			
10. Jenepono	83	111	-	-	-	-	-	-			
11. Takalar	-	-	-	-	-	-	-	-			
12. Gowa	49	-	-	-	11	117	72	-			
13. K.M.U.P.	-	-	-	-	-	-	18	-			
14. Maros	31	15	24	30	48	109	108	108			
15. Pangkep	397	464	185	205	310	382	572	789			
16. Barru	93	10	-	49	3	-	5	5			
17. K.M.Pare2	-	-	-	-	-	84	64	16			
18. Sidrap	-	-	-	91	427	364	65	95			
19. Brekang	91	100	85	25	30	41	102	323			
20. Pinrang	1,606	1,104	954	2,211	1,261	1,127	253	1,725			
21. Polmas	92	81	115	65	74	454	94	112			
22. Majene	-	-	-	-	5	-	7	45			
23. Mamuju	-	-	-	50	112	188	344	2,485			
T o t a l	10,473	4,967	4,458	7,145	7,371	9,811	6,861	13,007			

Source: data from Diperta SulSel.

South Sulawesi (1969 - 1976)

No. Kabupaten	Unit: ha							
	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	777	2,400	719	1,164	1,315	3,830	2,537	1,563
2. Tator	-	-	-	-	-	6	29	32
3. Soppeng	2,895	801	446	504	1,511	1,027	675	418
4. Wajo	564	1,381	417	221	528	861	1,511	1,054
5. Bone	-	13	1	51	-	65	494	444
6. Sinjai	-	-	-	-	2	12	3	-
7. Bulukumba	685	523	986	391	164	216	217	152
8. Selayar	-	-	-	-	-	-	-	-
9. Bantaeng	131	164	25	9	3	5	6	-
10. Jeneponto	83	86	-	-	-	-	-	-
11. Takalar	-	-	-	-	-	-	-	-
12. Gowa	49	-	-	-	-	113	62	185
13. K.M.U.P.	-	-	-	-	8	-	17	-
14. Hatos	30	15	24	31	48	106	101	107
15. Pangkep	506	464	172	201	306	376	563	785
16. Barru	43	10	-	46	-	-	2	5
17. K.M.Pare2	-	-	-	-	-	179	56	24
18. Sidrap	-	-	-	-	215	342	191	25
19. Brekang	57	150	78	28	47	31	61	185
20. Pinrang	1,539	564	1,264	211	1,739	871	380	793
21. Polmas	80	61	91	57	76	222	92	92
22. Majene	-	-	-	-	-	-	2	38
23. Mamuju	-	-	-	42	101	132	232	1,105
Total	7,439	6,632	4,133	2,957	6,300	8,295	7,235	7,789

Source: data from Diperta SulSel.

Acreeage of damaged of Soy bean by Kabupeten in
South Sulawesi (1969 - 1976)

No.	Kabupaten	Unit: ha.									
		1969	1970	1971	1972	1973	1974	1975	1976		
1.	Luwu	9	62	16.50	215.50	542	631	544	97	2	
2.	Taori	-	-	-	-	-	-	-	-	-	
3.	Soppeng	302	32	57	808	610	-	12	-	-	
4.	Wajo	83	122	33	336	10	305	38	796	-	
5.	Bone	-	2	-	6	29.50	13	15	35	-	
6.	Binjai	-	-	-	-	4	-	32	-	-	
7.	Bulukumba	8	2	61	31	3	21	2	-	-	
8.	Selayar	-	-	-	-	-	-	-	-	-	
9.	Pantaeng	8	25	17	1	-	1	-	-	-	
10.	Jenepono	-	-	25	-	-	-	-	-	-	
11.	Takalar	-	-	-	-	-	-	-	-	-	
12.	Gowa	-	-	-	-	-	6	11	36	-	
13.	K.M.U.P.	-	-	-	-	-	-	1	-	-	
14.	Maros	-	-	-	-	-	3	6	1	-	
15.	Pangkep	16	-	13	-	4	3	8	4	-	
16.	Barru	-	-	-	3	3	1	3	-	-	
17.	K.M.Pare2	50	-	-	-	-	5	-	-	-	
18.	Sidrap	-	-	-	-	183	3	3	3	6	
19.	Enr bang	14	24	16	-	-	-	-	-	-	
20.	Pinrang	12	106	312	374	1,131	62	57	-	-	
21.	Polmas	-	18	36	6	12	199	17	38	5	
22.	Majene	-	-	-	-	3	-	-	-	-	
23.	Memuju	-	-	-	8	11	14	33	144	-	
Total		503	393	586.50	1,792.50	2,545.50	1,281	781	1,134	-	

Source: data from Diparta SulSel.

V. 35 Production of soy bean by Kabupaten in South Sulawesi
(1969 - 1976)

Unit: tons

No. Kabupaten	1969	1970	1971	1972	1973	1974	1975	1976
1. Luwu	699	1,680	575	815	747	2,287	1,466	997
2. T a t o r	-	-	-	-	-	4	20	21
3. Soppeng	2,740	601	312	347	1,216	797	515	268
4. W a j o	339	984	308	152	382	708	1,164	773
5. Bone	-	7	1	32	78	25	200	192
6. Sinjai	-	-	-	-	1	6	1	-
7. Bulukumba	411	418	520	162	83	92	80	55
8. Selayar	-	-	-	-	-	-	-	-
9. Lantaeang	84	95	12	4	2	3	3	-
10. Jeneponto	50	52	-	-	-	-	-	-
11. Makassar	-	-	-	-	-	-	-	-
12. G o w a	17	-	-	-	3	56	35	106
13. K.M.U.P.	-	-	-	-	-	-	9	-
14. M a r o s	21	9	16	21	22	42	50	62
15. Pangkep	405	278	103	140	194	226	338	605
16. B a r i u	17	5	-	52	-	-	1	2
17. K.M.Pare2	-	-	-	-	-	40	26	12
18. Sidrap	-	-	-	-	108	140	96	13
19. Wreakang	28	75	39	14	36	18	40	111
20. Pinrang	1,077	395	985	147	1,255	702	233	515
21. Polmas	40	31	46	28	45	133	55	42
22. Majene	-	-	-	-	-	-	1	23
23. Mamuju	-	-	-	10	25	33	70	748
T o t a l	5,928	4,634	2,816	1,950	4,202	5,311	4,410	4,534

From of product: dry grains.

Source: data from Diperta SulSel.

V. 36 Development of Secondary crops by commodity in
South Sulawesi (1974 - 1976)

No.	Commodity	1 9 7 4		1 9 7 5		1 9 7 6		Yield ton/ ha				
		Planted area ha.	Harvest area ha	Planted area ha	Harvest area ha	Planted area ha	Harvest area ha					
1.	Potatos	758	725	2,544	890	921	890	3.60	844	754	3,388	4,500
2.	Cabbages	624	587	3,694	998	1,088	998	6.30	714	652	5,572	7.80
3.	Chines cabbages	473	147	1,904	362	392	362	4.30	435	359	1,836	5.10
4.	Onions	874	870	1,743	670	1,001	670	2.00	777	830	2,753	3.30
5.	Tomatos	1,241	789	3,806	1,050	1,586	1,050	4.80	1,572	1,332	4,816	3.60
6.	Radishes	-	-	-	37	76	37	-	36	36	163	4.50
7.	Carrots	-	-	-	38	55	38	-	58	46	194	4.30
8.	Red peppers	968	1,079	4,828	1,300	1,765	1,300	4.50	1,852	1,377	5,692	4.10
9.	Cucumbers	474	395	4,981	462	646	462	12.60	881	573	2,798	4.70
10.	Leeks	-	-	-	766	779	766	-	481	467	3,632	7.80
11.	Eggplants	1,226	1,080	5,296	1,313	1,578	1,313	4.90	2,317	1,577	4,733	3.00
12.	Beans	5,335	2,429	2,684	3,236	4,495	3,236	1.10	5,586	3,216	2,861	0.90

Source: Inspeksi Dinas Pertanian Rakyat Propinsi Dati I Sul-Sel.

V. 37 Development rates of acreage and production of the Secondary Crops by commodity in South Sulawesi (1974-1976)

No. C r o p s	Acreage crops ± %	Harvest ± %	Production ± %	Productivity ± %
1. Potato	+ 6.57	+ 3.74	+ 15.91	+ 13.93
2. Cabbage	+ 19.09	+ 17.67	+ 29.58	+ 11.52
3. Chinese Cabbage	- 3.07	+ 22.86	- 1.68	+ 10.31
4. Onion	- 1.27	+ 0.44	+ 26.50	+ 29.40
5. Tomato	+ 13.46	+ 29.97	+ 12.51	- 13.3
6. Radishes	- 52.63	- 2.70	- 3.50	0
7. Beans #1	- 19.72	- 58.05	- 4.4	+ 25.0
8. Carrot	+ 5.45	+ 21.05	- 68.69	+ 38.71
9. Red pepper	+ 43.63	+ 13.20	+ 28.93	+ 20.95
10. Cucumber	+ 36.32	+ 20.49	+ 22.04	- 36.15
11. Onion leaves	- 38.12	- 39.03	- 39.03	+ 20.00
12. Egg-plants	+ 37.77	+ 20.84	+ 1.34	- 15.78
13. Beans #2	+ 29.52	+ 16.30	+ 20.45	- 1.82
Average increase/decrease	5.99	6.66	11.18	7.90

Source: Inspeksi Diras Pertanian Rakyat Propinsi Dati I Sul-Sel.

Note: #1 Secondary crop such as green gram, peanut and soy bean.
#2 Vegetable (other bean)

V. 38 Development of acreages and production of Horticulture/Fruit
by commodity in South Sulawesi (1974-1976)

No. Commodity	1974		1975		1976		Yield Harvest Product. ton/ha	Yield Planted area ha	Yield Harvest Product. tons	Yield Planted area ha	Harvest Product. tons	Yield ton/ha
	area ha	ton/ha	area ha	ton/ha	area ha	ton/ha						
1. Avocado	-	-	70	10	165	160	94	20	44	44	2.17	
2. Oranges	-	-	538	833	3,568	43	583	4,171	3,489	3,489	3.49	
3. Iancium domesticum	-	-	103	307	1,992	65	197	923	3,129	3,129	3.39	
4. Durio Zibethinus	-	-	46	508	3,803	75	340	720	6,959	6,959	9.67	
5. Mangos	-	-	419	4,181	21,060	50	1,128	5,232	32,910	32,910	6.29	
6. Papayas	268	2,883	311	1,785	8,456	47	649	511	5,937	5,937	116.24	
7. Salacca edulis	29	4,746	140	585	4,677	80	28	67	344	344	5.14	
8. Pineapple	702	2,528	249	5,018	6,231	12	573	753	3,518	3,518	40.70	
9. Bananas	10,595	56,734	8,575	24,326	73,709	30	-	19,018	71,343	71,343	3.75	
10. Rambutan	72	63	27	50	80	14	97	112	521	521	4.64	
11. Sawo	17	25	6	14	38	25	-	-	-	-	-	
12. Gava	160	2,765	-	-	-	-	629	1,444	5,415	5,415	3.75	

Source: data from Diperta SulSel.

Unit: 000 tons

No.	Kabupaten	Cabbage	Chinese cabbage	Tomato	Egg-plant	Cucumber	Beans	Spanish pepper	Onion	Onion leaves	Potato	Others
1.	Luwu	-	-	-	0,29	0,26	0,13	0,07	0,01	0,01	-	-
2.	Ta'tor	0,47	0,64	0,25	0,05	0,10	0,01	0,07	0,12	0,25	0,25	0,10
3.	Soppeng	0,05	-	0,57	0,24	-	-	0,19	0,28	-	-	-
4.	Wajo	-	-	0,32	0,52	0,49	0,05	0,36	-	-	-	-
5.	Bone	-	0,01	0,10	0,07	0,10	0,02	0,04	-	-	-	-
6.	Sinjai	-	0,01	-	0,13	0,05	0,20	0,01	-	-	0,16	-
7.	Bulukumba	-	0,02	0,07	0,15	0,05	0,03	0,14	-	-	-	-
8.	Selayar	-	-	0,00	0,04	0,05	0,03	0,00	-	-	-	-
9.	Bantaeng	0,24	0,08	-	-	-	-	-	10	-	0,21	-
10.	Jenepono	0,32	0,11	0,01	0,01	-	0,85	0,05	0,34	0,34	0,08	0,04
11.	Takalar	0,09	0,20	0,19	0,13	0,30	0,02	0,10	0,14	-	-	0,02
12.	Gowa	0,31	0,48	0,02	0,05	0,03	0,04	0,02	0,01	0,48	0,03	0,51
13.	K.M.U.P.	-	-	0,01	0,01	-	0,01	0,01	-	-	-	-
14.	Maros	0,06	0,09	0,19	0,19	0,19	0,02	0,09	0,00	0,05	0,03	-
15.	Pangkep	-	-	0,08	0,22	0,11	0,22	0,14	-	-	-	-
16.	Baruru	0,45	-	0,06	0,05	-	0,00	0,09	-	-	-	-
17.	K.M.Pare2	-	0,09	0,08	0,20	0,07	0,02	0,05	-	-	-	-
18.	Sidrap	-	-	1,35	2,64	3,04	0,72	3,26	-	-	-	-
19.	Barekang	1,57	-	-	-	-	0,07	-	0,33	2,64	1,83	-
20.	Pinrang	-	-	0,03	0,06	0,01	0,03	0,03	-	-	-	-
21.	Polmas	0,22	0,13	0,27	0,17	0,17	0,07	0,02	0,20	-	0,01	-
22.	Wajene	0,06	0,04	0,30	0,18	0,01	0,16	0,19	0,18	-	-	-
23.	Mamaju	-	0,00	-	-	-	-	-	-	-	-	-
Total		3,69	1,90	1,30	4,98	2,68	4,83	1,74	4,99	2,54	0,70	-

Note: This table is arranged same number from Annual Report of Agricultural Extension Office

Source: data from Direktorat SulSel.

V. 40 Production of Vegetables in South Sulawesi, 1975
(in thousand tons)

No.	Kabupaten	Cabbage	Chinese cabbage	Tomato	Egg-plant	Cucumber	Beans	Spanish pepper	Onion	onion leaves	Potato	Others
1.	Luwu	-	0.00	0.46	0.29	0.07	1.41	0.17	0.25	0.01	0.01	0.01
2.	Taori	3.35	0.42	0.20	0.10	0.07	0.20	0.52	0.24	1.85	0.49	0.36
3.	Soppeng	0.08	-	0.63	0.28	-	-	0.22	0.08	-	-	-
4.	Wajo	-	-	1.10	0.49	0.31	0.23	0.49	-	-	-	-
5.	Bone	-	0.00	-	0.05	0.04	0.15	0.02	-	-	0.00	-
6.	Sinjai	0.26	0.10	-	0.24	0.04	0.12	0.01	-	-	0.26	0.01
7.	Bulukumba	0.05	0.09	0.05	0.11	0.07	0.08	0.07	-	-	-	-
8.	Selayar	-	0.00	0.03	0.03	0.04	0.09	0.00	-	-	-	-
9.	Bantaeng	0.25	0.22	0.01	0.01	0.01	0.02	0.01	0.09	-	0.17	-
10.	Jeneponto	0.29	0.19	0.13	0.16	-	1.06	0.08	0.42	-	0.11	0.10
11.	Takalar	-	0.31	0.17	0.03	0.72	0.02	0.13	0.07	-	-	-
12.	Gowa	0.22	0.19	0.23	0.43	0.81	0.05	0.15	0.09	0.48	0.07	0.34
13.	K.M.U.P.	-	-	0.01	0.01	-	0.00	0.00	-	-	-	0.00
14.	Maros	0.10	0.14	0.08	0.15	0.06	0.02	0.06	0.03	0.05	0.03	0.03
15.	Pangkep	-	-	0.06	0.06	0.02	0.02	0.01	-	-	-	-
16.	Barru	-	-	0.02	0.01	-	0.01	-	-	-	-	-
17.	K.M.Pare2	-	0.06	0.08	0.03	-	0.01	0.04	-	-	-	-
18.	Sidrap	-	-	0.22	0.39	0.02	0.11	0.38	-	-	-	-
19.	Enrekang	1.40	-	-	-	-	0.56	-	0.25	2.64	2.07	-
20.	Pinrang	0.01	-	0.02	0.14	0.01	0.02	0.08	-0.01	-	-	0.01
21.	Polmas	0.26	0.16	0.31	0.21	0.19	0.07	0.02	0.20	-	0.02	-
22.	Majene	0.06	0.03	0.33	0.22	0.14	0.04	0.21	0.19	-	-	-
23.	Mamuju	-	-	0.01	-	-	0.00	-	-	-	-	-
		6.83	1.96	4.20	3.41	2.62	4.90	2.69	1.95	4.79	3.22	0.81

Note }
Source } Same as table II.8

V. 41 Production volume of vegetables in South Sulawesi, 1976.

No.	Kabupaten	Unit: 000 tons									
		Cabbage	Chinese cabbage	Tomato	Egg-plant	Cucumber	Beans	Spanish pepper	Onion leaves	Potato	Others
1.	Luwu	0.00	0.00	0.14	0.25	0.07	0.04	0.07	0.02	0.00	0.00
2.	Taator	0.30	0.41	0.30	0.06	0.06	0.02	0.04	0.39	0.52	0.10
3.	Soppeng	0.00	-	0.54	0.24	-	-	0.18	0.14	-	0
4.	Wajo	-	-	1.27	1.16	0.07	0.43	1.27	-	-	0
5.	Bone	-	-	0.02	0.03	-	0.00	0.02	-	-	0
6.	Sinjai	-	0.02	0.05	0.41	0.25	0.12	0.05	-	0.02	0.0
7.	Bulukumba	0.00	0.02	0.11	0.24	0.21	0.12	0.11	-	-	0
8.	Selayar	-	0.00	0.00	0.03	0.03	0.07	0.00	-	-	0
9.	Bontaleng	0.31	0.14	0.05	0.05	-	0.00	0.02	0.04	0.43	0
10.	Jeneponto	0.54	0.44	0.30	0.16	-	0.27	0.02	0.14	0.07	0.04
11.	Takalar	0.15	0.21	0.18	0.12	0.52	0.14	0.17	0.11	-	0.02
12.	Gowa	0.12	0.18	0.22	0.16	0.27	0.19	0.20	0.05	0.12	0.51
13.	K.M.U.P.	-	0.02	0.02	0.00	-	0.02	0.00	-	-	0
14.	Maros	0.07	0.10	0.07	0.20	0.06	0.01	0.07	0.04	-	0
15.	Pangkep	-	-	0.19	0.03	0.07	0.26	0.35	-	-	0
16.	Barru	0.33	-	0.12	0.11	0.00	0.02	0.01	-	-	0
17.	K.M.Pare2	-	0.07	0.06	0.04	-	0.01	0.02	-	-	0
18.	Sidrap	-	-	0.28	0.52	0.06	0.28	2.27	-	-	0
19.	Barekang	2.56	-	-	-	-	0.63	-	1.39	3.26	2.18
20.	Pinrang	0.02	-	0.26	0.35	0.02	0.01	0.26	-	-	0
21.	Polmas	0.09	0.08	0.23	0.15	0.17	0.12	0.12	0.19	-	0.02
22.	Hajene	0.06	0.14	0.35	0.20	0.24	0.05	0.25	0.24	-	0
23.	Pamaju	-	-	0.06	0.01	0.01	0.03	0.01	-	-	0
		5.07	1.83	4.81	4.73	2.71	2.86	5.69	2.75	3.63	3.39
											0.70

Note }
Source } Same as table 8.

Unit: 000 tons

No. Kabupaten	Banana	Papaya	Orange Duku ¹⁾	Durian ¹⁾	Mango Salacca	Pine-apple	Guava	Others ²⁾		
1. Luwu	1.80	0.01	0.00	0.10	0.85	0.45	0.00	0.03	0.04	0.02
2. Tator	0.31	-	0.01	-	0.21	0.17	0.08	0.01	0.01	-
3. Soppeng	0.27	0.30	0.25	-	-	2.35	-	0.00	-	1.84
4. Wajo	4.03	0.22	0.17	0.05	0.05	0.20	-	1.35	0.12	0.66
5. Bone	0.92	0.07	-	-	0.04	0.30	-	-	0.01	0.05
6. Sinjai	6.34	0.06	0.11	0.06	0.08	0.27	-	0.17	-	-
7. Bulukumba	3.74	0.19	0.11	0.41	0.09	0.36	-	0.02	0.05	0.01
8. Selayar	0.47	0.00	0.01	-	0.00	0.00	-	0.00	-	-
9. Bantaeng	0.17	0.03	0.01	-	0.01	0.12	-	-	0.00	0.01
10. Jeneponto	2.80	0.24	0.23	-	-	3.50	-	0.00	0.32	-
11. Takalar	5.93	0.12	0.01	-	-	0.53	-	-	0.02	-
12. Gowa	1.46	0.11	0.04	0.00	0.15	0.09	0.00	0.04	0.04	0.30
13. K.M.U.P.	0.02	0.02	0.02	-	-	0.07	-	0.01	-	0.02
14. Maros	0.73	-	0.06	-	-	0.12	-	0.02	0.02	-
15. Pangkep	3.21	0.13	0.29	-	-	0.42	-	0.00	0.22	-
16. Barru	0.75	0.01	0.04	-	0.02	0.03	-	0.01	-	-
17. K.M.Pare2	2.82	0.03	0.09	-	-	0.07	-	0.02	0.04	0.01
18. Sidrap	1.62	0.28	0.06	-	0.03	0.01	0.00	0.04	1.82	-
19. Enrekang	0.67	0.29	-	0.04	0.09	0.12	4.67	-	-	0.01
20. Pinrang	0.42	0.02	0.13	-	0.01	0.53	-	0.02	0.40	-
21. Polmas	5.71	0.28	0.96	0.16	0.05	0.15	-	-	1.10	0.06
22. Majene	6.70	0.90	0.10	-	0.08	0.04	-	0.08	0.11	0.11
23. Mamuju	0.70	0.02	-	0.04	0.30	0.11	-	-	-	-
	56.73	2.88	2.69	0.85	1.99	10.68	4.75	2.53	4.32	3.14

Note

} Same as II.8 and II.13.
Source

V. 43 Production volume of fruit in South Sulawesi, 1975

(in thousand tons)

Unit: 000 tons

No.	Kabupaten	Banana	Papaya	Orange	Duku	Durian	Mango	Salacca	Pine-apple	Guava	Others
1.	Luwu	3.65	0.02	0.01	0.25	0.00	0.30	0.01	0.02	0.01	-
2.	Tator	0.87	-	0.01	0.00	0.00	0.00	0.05	0.01	0.04	0.11
3.	Soppeng	0.41	0.05	0.71	-	-	6.03	-	0.32	-	2.03
4.	Wajo	23.45	0.52	0.10	0.02	0.05	0.33	-	1.11	0.14	0.04
5.	Bone	1.17	0.01	-	-	8.28	0.05	-	-	0.01	0.80
6.	Sinjai	0.84	0.07	0.14	-	0.03	0.80	-	0.11	-	-
7.	Bulukumba	6.64	0.38	0.29	0.02	0.07	0.30	-	0.03	0.07	0.37
8.	Selayar	0.46	0.01	0.01	-	-	0.01	-	0.00	0.00	-
9.	Bantaeng	0.11	0.01	0.17	-	0.00	0.09	-	-	0.00	0.03
10.	Jenepono	0.82	0.03	0.08	-	-	0.13	-	0.02	1.31	-
11.	Takalar	5.36	0.01	0.01	-	-	-	-	-	0.03	-
12.	Gowa	4.71	1.86	0.50	0.12	0.02	0.30	0.00	0.12	0.29	7.32
13.	K.M.U.P.	0.02	0.01	0.01	-	-	0.08	-	0.01	-	0.02
14.	Mars	5.37	0.60	0.11	0.02	-	0.07	-	0.03	-	0.03
15.	Pangkep	0.75	0.13	0.25	-	-	0.23	-	0.02	0.18	-
16.	Barru	1.14	0.02	0.10	-	-	0.02	-	0.02	0.02	-
17.	K.M.Pare2	0.74	0.11	0.08	-	-	0.07	-	0.02	0.02	0.04
18.	Sidrap	2.38	0.19	0.24	-	-	0.27	0.01	0.00	8.43	-
19.	Wrekang	0.85	0.44	-	0.01	0.13	0.15	4.61	-	-	-
20.	Pinrang	2.55	0.30	0.42	-	-	-	-	-	-	-
21.	Poleas	2.55	0.56	0.16	0.99	0.95	0.95	1.31	-	0.55	0.04
22.	Majene	7.23	0.38	0.15	-	-	0.07	-	0.07	0.12	0.07
23.	Pamaju	1.60	0.08	-	0.00	0.03	0.00	-	-	-	-
		73.71	8.46	3.57	1.99	3.80		4.68	6.23	8.10	10.80

Note } Same as II.8 and II.13.
Source }

V. 44 Production volume of fruits in South Sulawesi, 1976

in thousand tons

No.	Kabupaten	Unit: 000 tons									
		Banana	Papaya	Orange	Duku	Durian	Mango	Salacca	Pineapple	Guaava	Others
1.	Luwu	5.75	0.11	0.00	0.66	0.04	3.40	0.05	0.04	0.05	0.02
2.	Tator	0.52	-	0.02	0.00	0.07	0.01	0.18	0.01	0.02	-
3.	Soppeng	0.40	0.05	0.54	-	-	1.60	-	0.04	-	1.73
4.	Wajo	15.79	0.85	0.12	0.02	0.25	0.32	-	0.95	0.15	0.60
5.	Bone	0.69	0.00	0.35	0.50	0.07	0.03	-	-	0.02	0.08
6.	Sinjai	0.48	0.05	0.07	0.04	0.04	0.19	-	0.04	-	0.07
7.	Bulukumba	8.94	0.42	0.26	0.05	0.03	0.35	-	0.01	0.04	0.09
8.	Selayar	0.38	-	0.72	-	0.00	0.70	-	0.00	0.02	-
9.	Bantaeng	0.25	0.06	0.32	0.00	0.00	0.60	-	-	-	0.01
10.	Jeneponto	0.54	0.73	0.19	-	-	6.24	-	0.02	0.11	-
11.	Takalar	4.70	0.03	0.02	-	-	0.45	-	0.01	-	-
12.	Gowa	2.07	0.11	0.17	0.03	0.21	0.32	0.00	1.77	0.31	0.34
13.	K.M.S.P.	0.16	0.03	0.01	0.00	0.00	2.49	-	0.00	-	0.02
14.	Maros	4.39	0.62	0.08	0.10	-	0.56	0.01	0.04	0.22	0.01
15.	Pangkep	1.33	1.20	0.15	-	-	9.56	-	0.01	0.24	-
16.	Barru	0.96	0.01	0.29	-	0.02	0.40	0.00	0.00	0.02	-
17.	K.M.Pare2	0.01	0.01	0.01	-	-	0.06	-	-	0.01	-
18.	Sidrap	3.85	0.10	0.13	0.31	0.10	0.70	0.04	-	0.67	0.01
19.	Pinrang	-	-	-	-	-	-	4.01	-	-	-
20.	Pinrang	5.58	0.10	0.14	0.05	0.02	2.12	0.04	0.46	0.36	0.04
21.	Polmas	4.07	0.08	0.36	1.57	1.30	4.07	0.03	0.03	1.21	0.44
22.	Majene	9.45	0.42	0.20	-	0.07	0.11	-	0.46	0.18	0.03
23.	Mamuju	1.07	0.02	0.03	0.30	0.74	1.12	-	0.00	0.00	-
		71.34	5.94	4.17	3.13	6.9	32.91	4.95	3.52	3.41	3.61

Note }
Source } Same as II.8

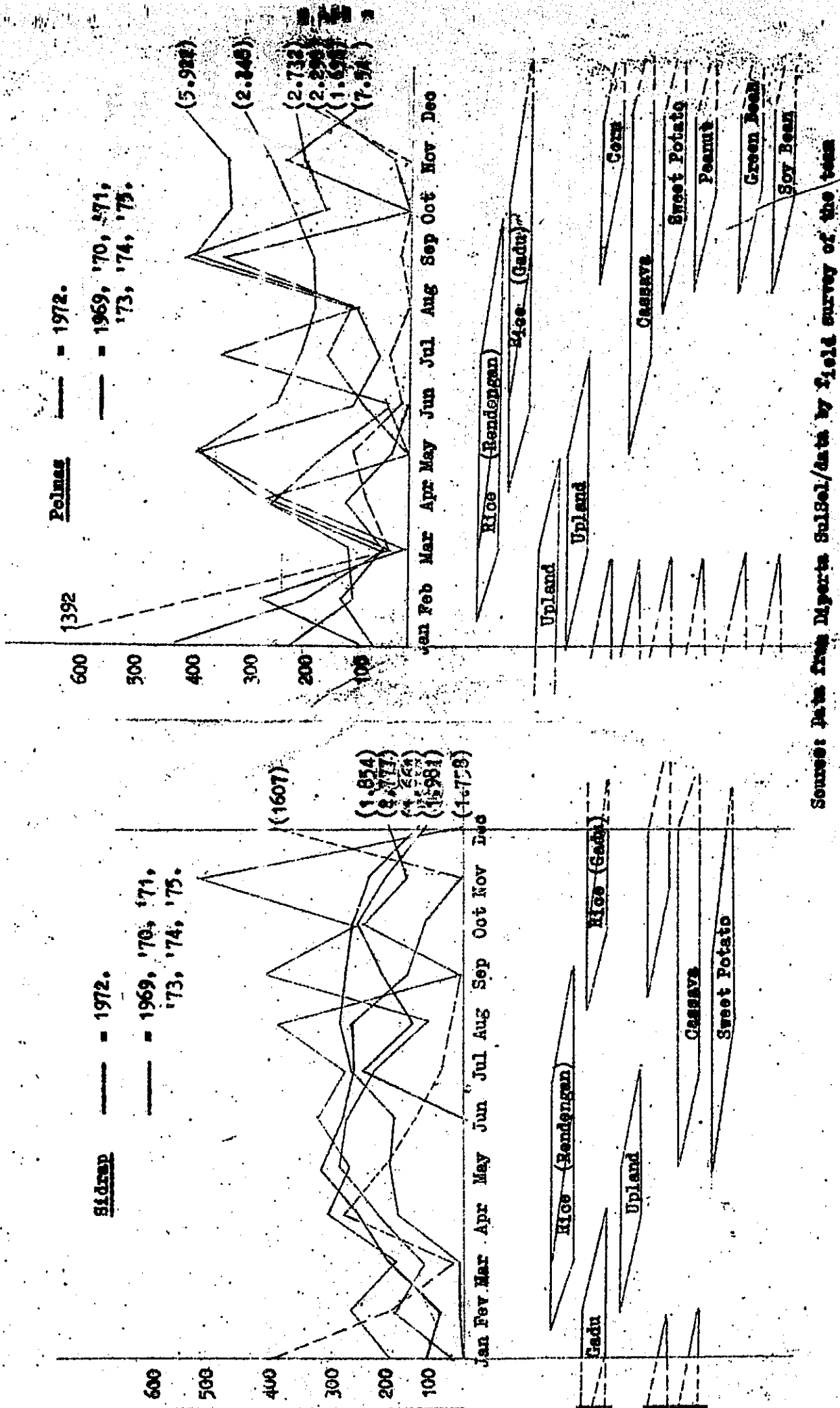
II.32. Amount of increased riding tractor in South Sulawesi

Prefecture	Plan	P r o g r e s s				Total
		Mini tractor		Hand Tractor		
		KUBOTA 12.5 HP	SATO 15 HP	SHIBAURA 14 HP	DOM-PENG 12 HP	
1. U. Pandang	-	-	-	-	-	14
2. Maros	315	4	-	-	-	4
3. Pangkep	367	10	-	1	7	18
4. Gowa	202	2	-	-	-	2
5. Takalar	233	3	-	-	-	3
6. Jenepono	164	1	-	-	-	1
7. Bantaeng	14	-	-	-	-	-
8. Bulukumba	522	-	-	1	-	1
9. Selayar	-	-	-	-	-	-
10. Sinjai	17	-	-	-	-	-
11. Bone	1,220	11	-	7	-	18
12. Wajo	1,531	5	-	5	-	10
13. Soppeng	205	44	-	-	-	44
14. Barru	165	3	1	-	-	4
15. Pare-Pare	-	-	-	-	-	-
16. Pinrang	557	94	-	-	-	94
17. Sidrap	616	125	-	5	3	133
18. Enrekang	121	1	1	1	1	-
19. Polmas	433	35	-	-	-	35
20. Majene	-	-	-	-	-	-
21. Mamaju	-	-	-	-	-	-
22. Tator	115	1	11	-	-	12
23. Luwu	667	7	-	2	1	10
Total	7,464	359	12	21	11	403

Note : Importing country: from Japan - KUBOTA, SATO, SHIBAURA
from Republic of China - DOM-PENG

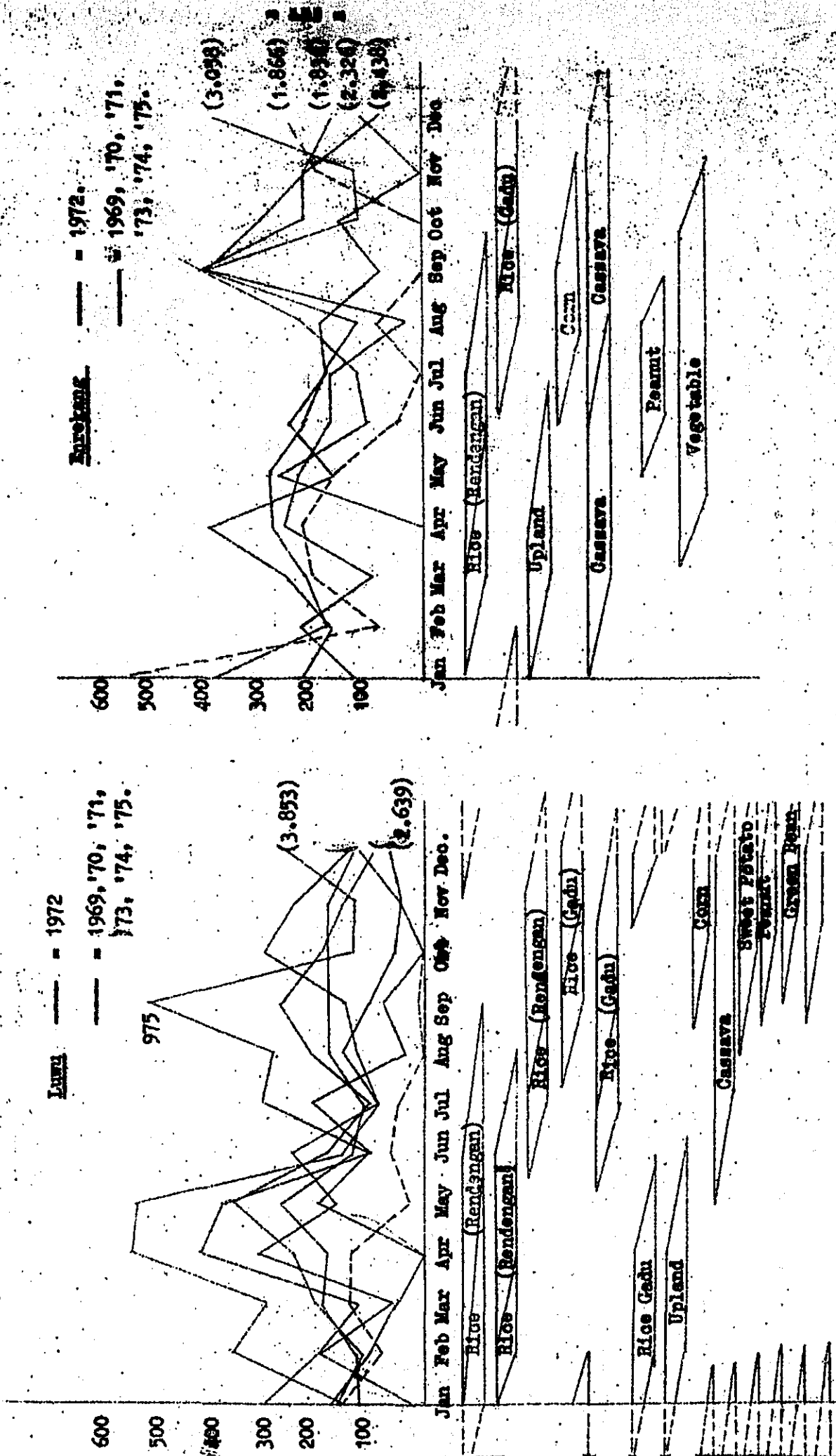
Source: Agricultural Extension Office

V. 46. Rainfall and Cropping Pattern in Sidrap and Polmas (1969 - 1975).



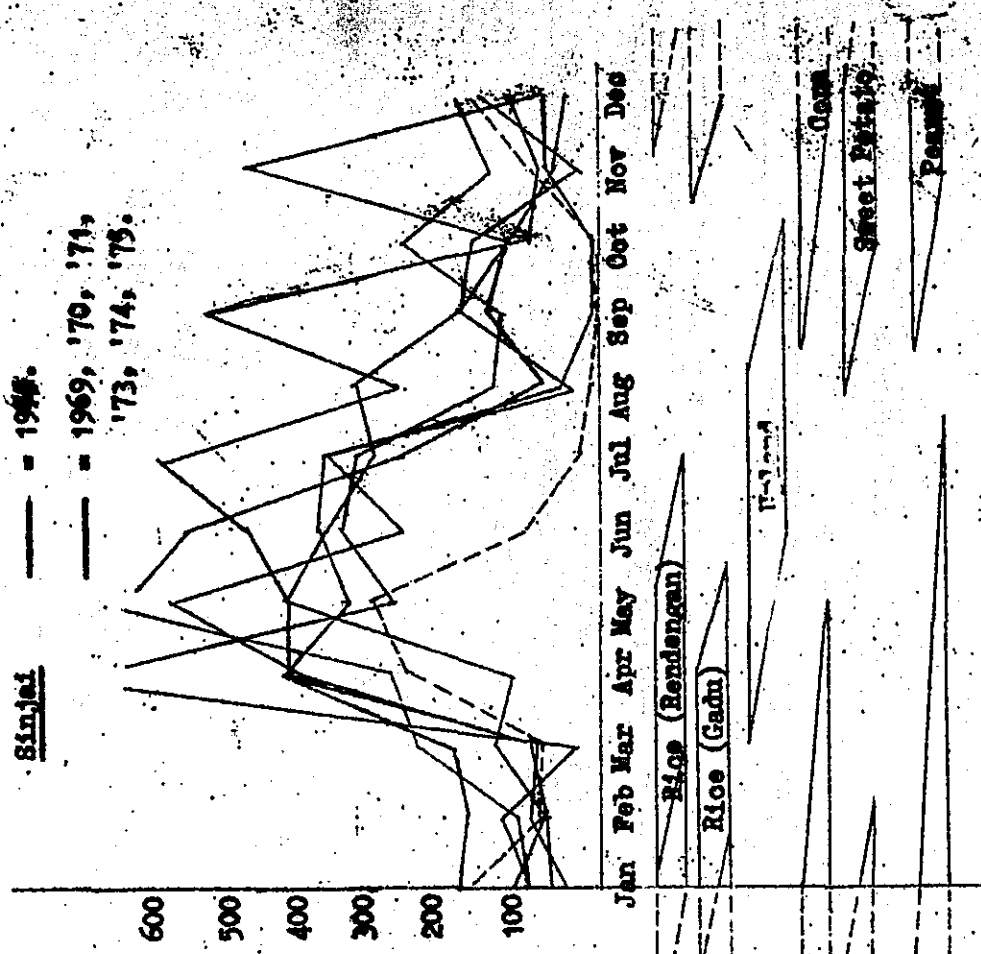
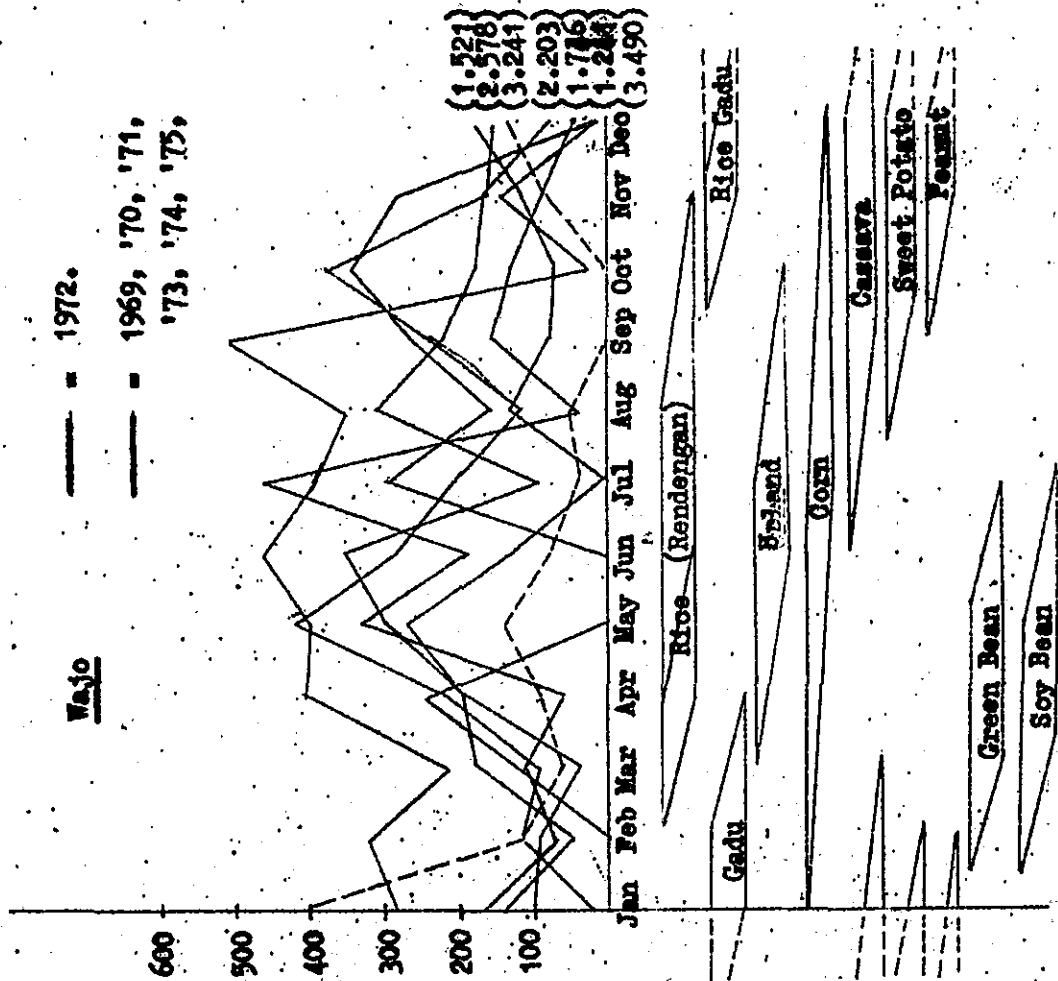
Source: Data from Reports Solsol/data by field survey of the team

V. 47. Rainfall and Cropping Pattern in Luwu and Sumbawa (1969 - 1975).



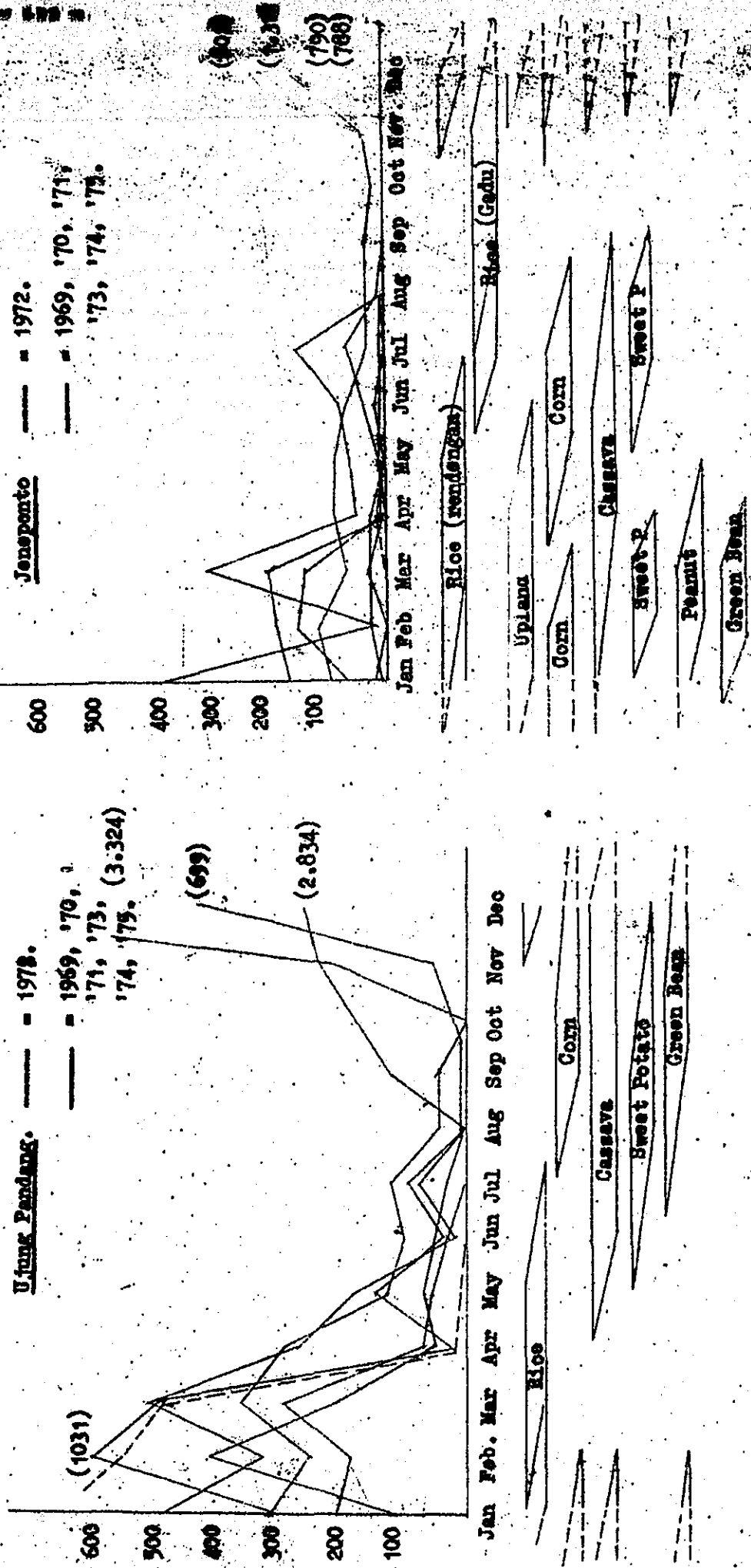
Source: Data from Direktorat Bul/Sel/dats by field survey of the team.

V. 48. Rainfall and Cropping Pattern in Wajo and Sinjai (1969 - 1975).



Source: Data from Direktorat Salsol/dato by field survey of the team.

V. 49. Mainfall and Cropping Pattern in U.Pandang and Maros (1969 - 1975).-



Source: Data from Majorta Salsal/442 by field survey of the team

V. 50. Growing period of paddy cultivation.

	Jan	Feb.	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Ujung Pandang	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2. Maros	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3. Pangkep	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4. Gowa	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5. Takalar	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6. Jeneponto	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7. Bantaeng	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8. Bulukumba	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9. Selayar	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10. Sinjai	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11. Bone	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12. Wajo	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
13. Soppeng	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
14. Barru	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
15. Pare-Pare	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
16. Pinrang	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
17. Sidrap	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
18. Enrekang	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
19. Polmas	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
20. Majene	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
21. Mamuju	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
22. Tator	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
23. Luwu	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Note : ----- : Rainy season paddy
 ----- : Dry season paddy
 : Upland paddy

Source: Data from Diparta SulSel/data by field survey of the team.

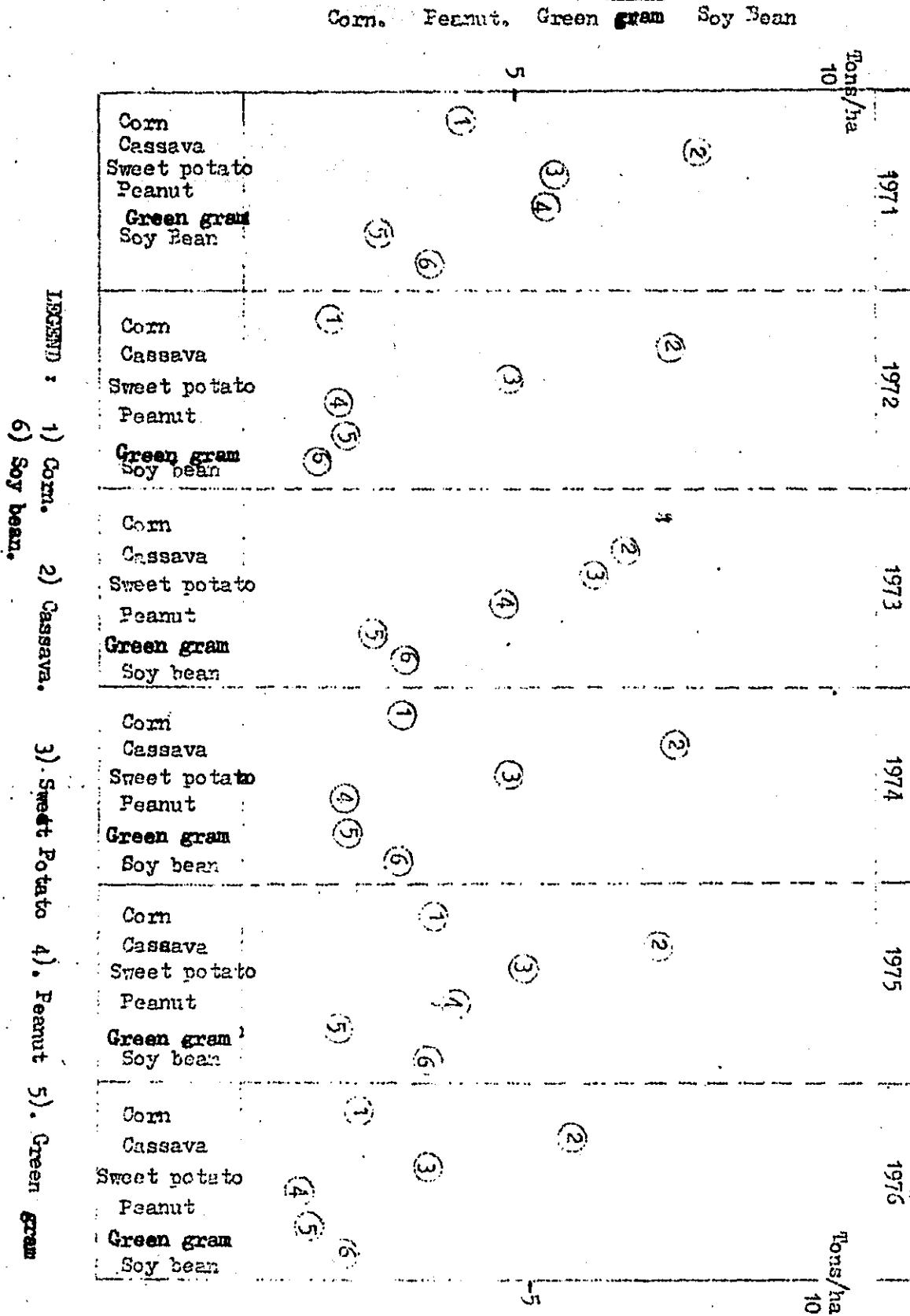
V. 51. Dry season and wet season in each Kabupaten.

Kabupaten	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. U. Pandang	●	●	●	●	●	⊕	○	○	○	○	○	⊕
2. Maros	●	●	●	●	●	⊕	○	○	○	○	○	⊕
3. Pangkep	●	●	●	●	●	⊕	○	○	○	○	○	●
4. G o w a	●	●	●	●	○	○	○	○	○	⊕	●	●
5. Takalar	●	●	●	●	○	○	○	○	○	○	⊕	●
6. Jenepono	●	●	●	●	⊕	○	○	○	○	○	○	⊕
7. Bantaeng	○	○	⊕	●	●	●	●	●	○	○	○	○
8. Bulukumba	○	○	○	●	●	●	●	●	●	⊕	○	○
9. Selayar	○	⊕	●	●	●	●	⊕	○	○	○	○	○
10. Sinjai	○	○	⊕	●	●	●	●	●	●	○	○	○
11. B o n e	○	○	⊕	●	●	●	●	●	○	○	○	○
12. W a j o	○	○	○	●	●	●	●	●	●	⊕	○	○
13. Soppeng	○	○	○	●	●	●	●	●	⊕	○	○	○
14. Barru	●	●	●	●	●	⊕	○	○	○	○	○	⊕
15. Pare-Pare	●	●	●	●	⊕	○	○	○	○	⊕	●	●
16. Pinrang	⊕	●	●	●	●	●	●	⊕	○	○	○	○
17. Sidrap	○	○	⊕	●	●	●	●	●	⊕	○	○	○
18. Enrekang	○	⊕	●	●	●	●	●	●	⊕	○	○	○
19. Polmas	●	●	●	●	●	⊕	○	○	○	○	⊕	●
20. Majene	●	●	●	●	●	○	○	○	○	○	⊕	●
21. Mamuju	●	●	●	●	●	●	⊕	○	○	○	○	⊕
22. T o t a l	●	●	●	●	⊕	○	○	○	○	○	●	●
23. L u w u (Northern p.)	●	●	●	○	○	○	○	○	⊕	●	●	●
(Southern p.)	○	⊕	●	●	●	●	●	●	⊕	○	○	○

○ : Dry season
 ⊕ : Middle
 ● : Wet season.

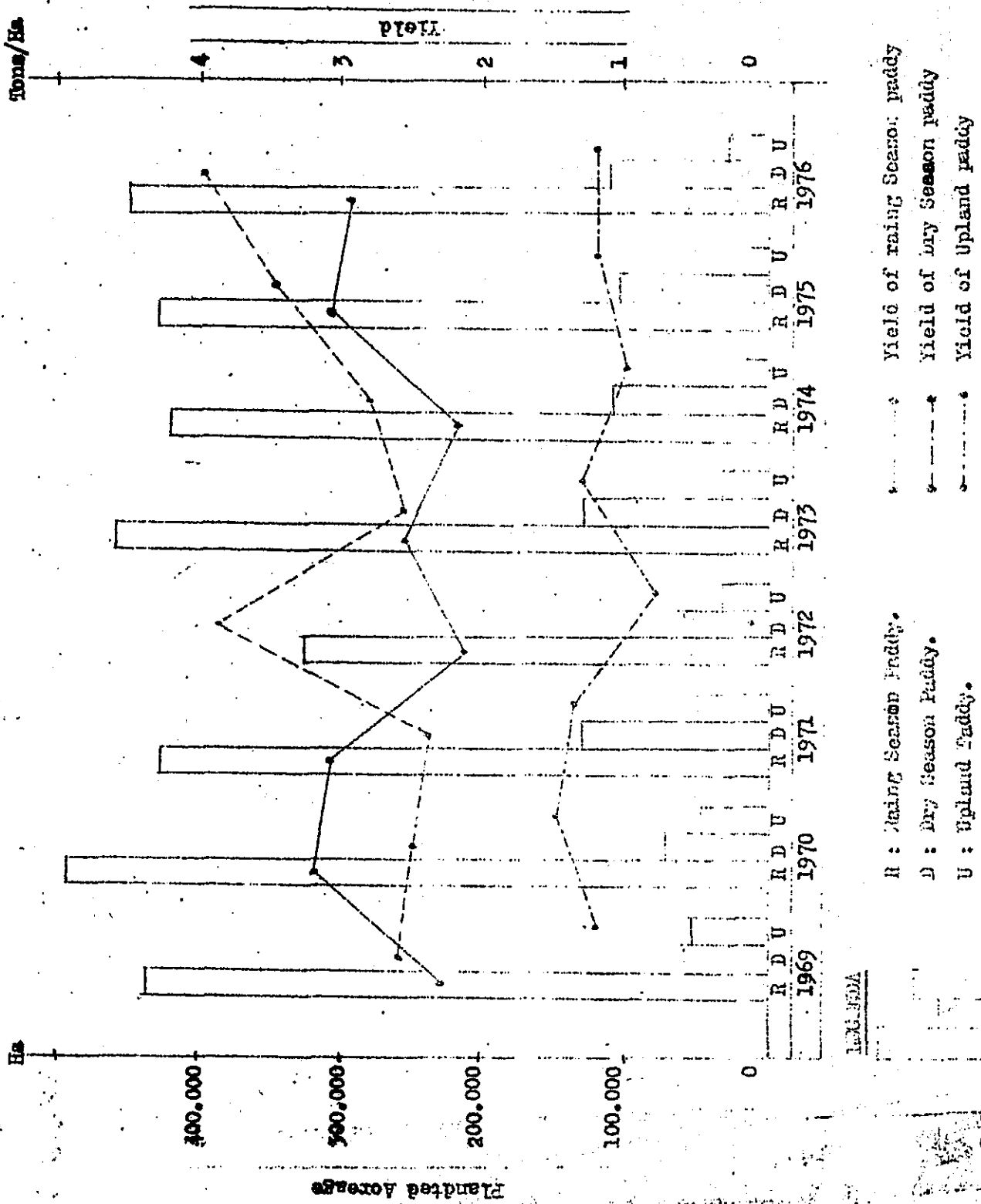
Source: Data from Direktorat SulSel/data by field survey of the team.

V. 51. Dry season and wet season in each Kabupaten



LEGEND : 1) Corn. 2) Cassava. 3) Sweet Potato 4) Peanut 5) Green gram
6) Soy bean.

Source: Data from Diperta SulSel/data by field survey of the team.



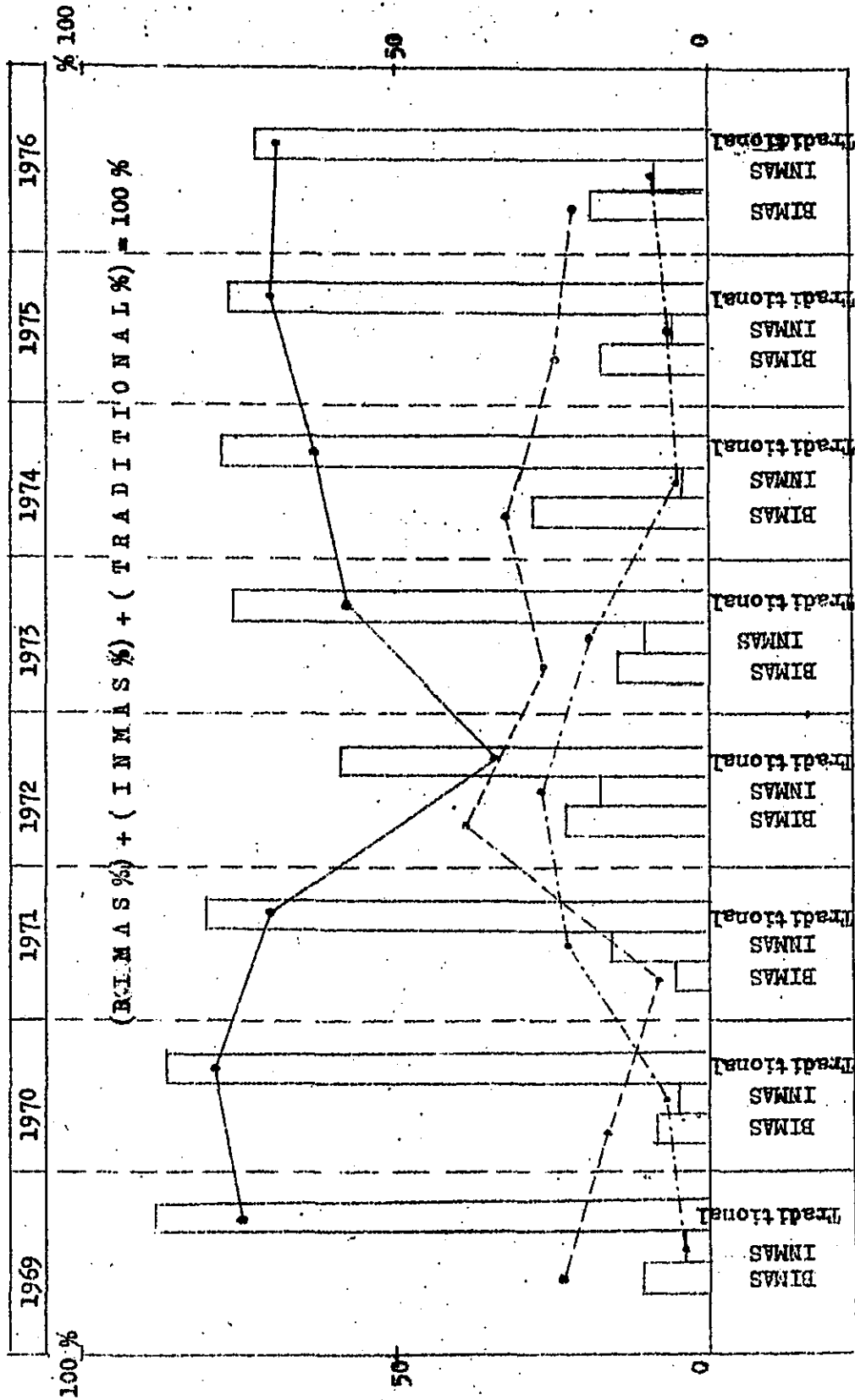
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planted acreage

R : Rainy Season Paddy. Yield of rainy Season paddy
 D : Dry Season Paddy. Yield of dry Season paddy
 U : Upland Paddy. Yield of Upland paddy

Source: Data from Diperta Sulsel/data by field survey of the team.

V. 54. Planted Ratio of Paddy in South Sulawesi.



LEGENDA

- Rate of Production by BIMAS System
- - -●- - - Rate of Production by INMAS System
- Rate of Production by Traditional.

Planted Rate.

Source: Data from Diperta SulSel/data by field survey of the team.

V

DATA FOR THE PRODUCTION CONDITION OF
VEGETABLES, FRUITS, LIVESTOCKS AND
ESTATE CROPS IN SOUTH SULAWESI
=====

(Continued)

REFERENCE DATA FOR CHAPTER
9.3. IN THE VOLUME II

V.55

Big Ranches in South Sulawesi at Present 1968 - 1976

Kabupaten	Total Ranches / Year						Total			
	1968	1969	1970	1971	1972	1973		1974	1975	1976
1. Maros	—	—	—	—	$\frac{1}{505 \text{ ha.}}$	—	—	—	—	$\frac{1}{505 \text{ ha.}}$
2. Sidrap	—	—	$\frac{2}{1,621 \text{ ha}}$	$\frac{1}{11,890 \text{ ha}}$	$\frac{1}{1,561 \text{ ha}}$	$\frac{2}{5,374 \text{ ha}}$	—	—	$\frac{1}{250 \text{ ha}}$	$\frac{7}{20,696 \text{ ha}}$
3. Burekang	—	—	—	—	—	$\frac{1}{5,230 \text{ ha}}$	—	$\frac{1}{465 \text{ ha}}$	—	$\frac{2}{5,695 \text{ ha}}$
4. Wajo	$\frac{1}{2,084 \text{ ha}}$	—	$\frac{1}{564 \text{ ha}}$	$\frac{1}{549 \text{ ha}}$	—	$\frac{1}{12,170 \text{ ha}}$	—	—	—	$\frac{4}{15,367 \text{ ha}}$
5. Pinnang	—	—	—	—	—	$\frac{1}{572 \text{ ha}}$	—	$\frac{1}{300 \text{ ha}}$	$\frac{1}{95 \text{ ha}}$	$\frac{3}{967 \text{ ha}}$
6. Bone	—	—	—	$\frac{1}{215 \text{ ha}}$	—	—	—	—	—	$\frac{1}{215 \text{ ha}}$

Total	$\frac{1}{2,084 \text{ ha}}$	—	$\frac{3}{2,185 \text{ ha}}$	$\frac{3}{12,654 \text{ ha}}$	$\frac{2}{2,066 \text{ ha}}$	$\frac{5}{23,346 \text{ ha}}$	—	$\frac{2}{765 \text{ ha}}$	$\frac{2}{345 \text{ ha}}$	$\frac{18}{43,445 \text{ ha}}$
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Source : Kantor Wilayah Departemen Perdagangan Propinsi Sulawesi Selatan, Kesimpulan dan Rekomendasi, hasil-basil kelompok kerja Daerah Pembinaan Pusat Pemasaran Ternak 1977.

Kabupaten	In Proposal	In Proses	T o t a l
1. W a j o	$\frac{3}{2,881.69 \text{ ha}}$	--	$\frac{3}{2,881.69 \text{ ha}}$
2. L u w u	$\frac{1}{2,760.00 \text{ ha}}$	--	$\frac{1}{2,760.00 \text{ ha}}$
3. P a r e - P a r e	$\frac{1}{290.00 \text{ ha}}$	--	$\frac{1}{290.00 \text{ ha}}$
4. B o n e	$\frac{1}{600.00 \text{ ha}}$	$\frac{1}{910.00 \text{ ha}}$	$\frac{2}{1,510.00 \text{ ha}}$
5. S i d r a p	$\frac{1}{300.00 \text{ ha}}$	--	$\frac{1}{300.00 \text{ ha}}$
6. T a k a l a r	$\frac{1}{400.00 \text{ ha}}$	--	$\frac{1}{400.00 \text{ ha}}$
7. P i n r a n g	--	$\frac{7}{2,475.00 \text{ ha}}$	$\frac{7}{2,475.00 \text{ ha}}$
8. B a r r u	--	$\frac{1}{500.00 \text{ ha}}$	$\frac{1}{500.00 \text{ ha}}$
9. M a m u j u	--	$\frac{3}{4,500.00 \text{ ha}}$	$\frac{3}{4,500.00 \text{ ha}}$
10. S o p p e n g	--	$\frac{1}{720.00 \text{ ha}}$	$\frac{1}{720.00 \text{ ha}}$
11. G o w a	--	$\frac{1}{2,500.00 \text{ ha}}$	$\frac{1}{2,500.00 \text{ ha}}$
T o t a l	$\frac{8}{7,150.69 \text{ ha}}$	$\frac{14}{11,605 \text{ ha}}$	$\frac{22}{18,755.69 \text{ ha}}$

Source : Kantor Wilayah Departemen Perdagangan Propinsi Sulawesi Selatan, Kesimpulan dan Rekomendasi

hasil-hasil kelompok kerja Daerah Pembinaan Pusat Pemasaran Ternak, tahun 1977.-

V.57 Table of Slaughter-house in South Sulawesi Province, 1976

	Location	Capacity/day Head	Destination
1. K.M. Ujung Pandang	Karuwisi	20	Local - Consumention
	Macini	40	
	Jongaya	5	
2. Maros	Maros	5	
3. Gowa	Mangasa	5	
	Limbung	20 X)	
4. Takalar	Pattalassang	3	
5. Bantaeng	Bantaeng	3	
6. Pangkep	Pangkep	3	
7. Bone	Watampone	5	
8. Soppeng	Watansoppeng	3	
	Cabenge	3	
9. Wajo	Sengkang	5	
10. Luwu	Palopo	5	
	Masamba	3	
11. Pare-Pare	Pare-Pare	10	
12. Tana Toraja	Rantepao	5	
	Makale	3	
13. Sidrap	Rappang	5	
14. Pinrang	Pinrang	3	
15. Barru	Tanete-Rilau	3	
16. Polmas	Polewali	-	
	Wonomulyo	5	
	23.	147.	

Source : Kantor Wilayah Departemen Perdagangan Propinsi Sulawesi Selatan, Kesimpulan dan rekomendasi, hasil-hasil kelompok kerja Daerah Pembinaan Pusat Pemasaran Ternak, tahun 1977.

X) : Slaughter House in Mangasa in reality the capacity/day is 20 Heads.

V.58 Table of Birth Rate of Livestock in South Sulawesi Province
1969 - 1974

Kind of animal	1969	1970	1971	1972	1973	1974	Average
1. C o w	13.29	15.00	22.25	16.06	26.36	14.37	17.85
2. B u f f a l o w	8.31	12.10	6.26	8.19	11.57	10.14	9.42
3. H o r s e	6.10	2.24	5.16	0.48	8.10	1.67	3.04
4. G o a t	7.97	1.48	6.03	1.47	4.83	12.38	5.69
5. S h e e p	37.39	0	33.38	8.41	38.80	34.39	23.72
6. P i g	18.11	6.28	8.35	5.43	42.15	18.38	16.45

Source : Animal Husbandry Office of South Sulawesi Province
General Report, Pelita I and Pelita II, 1977.-

V.59 Trend of Cow's population by Kabupaten by year.

Kabupaten	1 9 7 1 (head)	1 9 7 2 (Head)	1 9 7 3 (head)	1 9 7 4 (head)	1 9 7 5 (head)
M a r o s	14,191	14,191	15,289	16,941	16,941
Pangkep	17,194	17,194	19,146	19,146	22,319
Bantaeng	9,415	9,415	10,164	9,825	10,775
Bulukumba	10,228	10,228	15,335	22,404	22,404
S i n j a i	12,239	12,234	12,234	22,988	22,688
B o n e	47,826	47,826	32,619	85,169	97,947
W a j o	17,612	17,642	19,272	19,410	33,251
Soppeng	24,161	24,161	23,984	18,330	37,525
L u w u	8,876	8,876	10,033	27,500	19,396
B a r r u	45,414	45,414	52,226	52,226	52,226
S i d r a p	16,966	16,966	21,607	23,795	25,384
Pinrang	19,868	19,868	26,452	26,452	26,489
Enrekang	21,570	21,570	11,953	14,095	14,789
P o l m a s	12,880	12,880	12,862	12,868	14,237
G o w a	6,972	6,972	6,402	12,916	12,688
Jeneponto	4,478	4,478	4,732	5,106	3,558

Source : Laporan Hasil Seminar Penyeragaman Data Propinsi Dati I Sulawesi Selatan BAPPEDA Propinsi Sulawesi Selatan 1976.

Notes : The Kabupatens Which has the number of Livestock less than 5000 are not include to this table.

V.60 Trend of Pig's population by Kabupaten by years

Kabupaten	1 9 7 1 (head)	1 9 7 2 (head)	1 9 7 3 (head)	1 9 7 4 (head)	1 9 7 5 (head)
G o w a	3,067	3,067	-	-	1,987
Tana Toraja	429,054	128,054	188,622	188,622	188,622
L u w u	3,722	3,722	10,329	11,302	11,648
K.M.Pare-Pare	2,860	2,860	3,941	2,868	3,941
P o l m a s	10,837	10,837	10,837	10,837	7,962
M a m u j u	7,869	7,869	8,672	9,539	10,406
K.M. U.Pandang	-	-	-	-	16,166
P i n r a n g	354	354	470	470	1,364

Source : Laporan Hasil Seminar Penyeragaman Data Propinsi Dati I Sulawesi Selatan BAPPEDA Propinsi Sulawesi Selatan, 1976.

V.61

Trend of Buffalo's population by Kabupaten by year

Kabupaten	1 9 7 1 (head)	1 9 7 2 (head)	1 9 7 3 (head)	1 9 7 4 (head)	1 9 7 5 (head)
M a r o s	19,681	19,692	22,121	25,224	25,224
Pangkep	12,836	12,836	12,196	12,196	16,850
G o w a	38,266	38,266	34,479	39,040	32,739
Takalar	21,029	21,029	21,516	23,433	24,153
Jeneponto	27,103	17,103	18,433	18,853	17,152
Enrekang	409	409	409	409	3,533
Bantaeng	10,394	10,394	11,224	9,079	8,726
Sinjai	10,340	10,548	10,548	15,718	32,739
B o n e	31,117	37,771	40,788	35,861	35,313
W a j o	55,782	55,782	55,992	56,100	45,120
Tana Toraja	41,207	41,207	38,581	28,581	38,581
L u w u	9,116	9,116	7,819	13,907	14,279
S i d r a p	8,937	8,931	12,710	12,846	13,847

Source : Laporan Hasil Seminar Penyeragaman Data Propinsi Dati I Sulawesi Selatan, BAPPEDA Propinsi Sulawesi Selatan, 1976.

Notes : The Kabupatens which has the number of livestock less than 5000 are not include to this table.

V.62

Trend of Hoesse's population by Kabupaten by year

Kabupaten	1 9 7 1 (head)	1 9 7 2 (head)	1 9 7 3 (head)	1 9 7 4 (head)	1 9 7 5 (head)
G o w a	9,627	9,627	9,841	8,000	7,640
Selayar	7,336	7,336	7,320	3,171	3,171
Jeneponto	12,599	12,599	11,915	11,477	10,630
Bantaeng	14,850	14,850	16,077	13,817	14,061
Bulukumba	11,426	11,426	17,413	18,585	18,585
S i n j a i	5,923	5,923	5,923	8,188	7,690
B o n e	23,321	23,321	24,487	21,756	22,774
W a j o	22,926	22,926	23,112	23,143	22,781
Soppeng	6,336	6,366	7,269	7,269	7,927
Sidrap	4,603	4,603	6,059	6,639	6,064
Enrekang	2,175	2,175	3,897	4,797	5,083
P o l m a s	4,880	4,880	5,088	5,088	5,025

Source : Laporan Hasil Seminar Penyeragaman Data Propinsi Dati I Sulawesi Selatan, BAPPEDA Propinsi Sulawesi Selatan, 1976.

Notes : The Kabupatens which has the number of livestock less than 5000 are not include to this table.

V.63 Trend of Goat's population by Kabupaten by years

Kabupaten	1971 (head)	1972 (head)	1973 (head)	1974 (head)	1975 (head)
G o w a	11,062	11,062	10,512	15,118	12,559
Takalar	5,400	5,400	4,770	4,744	4,890
Selayar	16,318	16,318	20,303	9,108	9,108
Jeneponto	29,507	29,507	30,710	32,311	29,702
Bantaeng	11,401	11,402	12,286	12,043	12,443
Bulukumba	16,531	16,131	10,640	10,640	10,640
S i n j a i	6,990	6,990	16,990	8,110	12,554
B o n e	10,666	10,666	10,666	10,666	10,666
W a j o	17,321	17,321	17,861	17,862	18,109
Tana Toraja	10,957	10,957	8,005	8,005	6,005
L u w u	5,908	5,908	6,323	7,062	6,166
B a r r u	7,407	7,407	7,854	7,854	7,854
Pinrang	5,552	5,552	6,102	6,702	4,226
Enrekang	7,474	7,434	11,077	15,286	15,298
P o l m a s	10,433	10,433	10,343	10,343	13,306
M a j e n e	6,426	6,426	6,490	12,045	15,865
S i d r a p	3,769	3,769	6,297	7,467	8,363

Source : Laporan Hasil Seminar Penyeragaman Data Propinsi Dati I Sulawesi Selatan, BAPPEDA Propinsi Sulawesi Selatan, 1976.

V.64 Trend of Sheep's population by Kabupaten by years

Kabupaten	1971 (head)	1972 (head)	1973 (head)	1974 (head)	1975 (head)
Jeneponto	2,320	2,320	2,433	19,978	5,330
W a j o	813	813	10,024	1,102	1,085
Bantaeng	369	369	1,198	460	545
Enrekang	66	66	15	24	24
P o l m a s	45	45	40	40	91

Source : Laporan Hasil Seminar Penyeragaman Data Propinsi Dati I Sulawesi Selatan, BAPPEDA Propinsi Sulawesi Selatan 1976.

V.65 stock of Meat and eggs in South Sulawesi, 1975 available to consume

Population/Kind of Livestock 1974	Population of Livestock (head)	'Available stock to' consum (head)	Number of meat available to consum (Kg)	Number of eggs available to consume local chicken
5,339,414	485,679	48,568	4,556,800	-
Buffalo	375,097	37,510	5,526,500	-
Goat	288,941	57,778	66,820	-
Sheep	9,669	1,934	20,010	-
Pig	334,656	66,931	3,346,550	-
Chicken	9,734,926	4,869,963	4,869,963	48,699,620
Duck	947,885	473,942	473,942	11,848,550

Source : Laporan Tahunan, Inspektorat Dinas Peternakan Dati I Sulawesi Selatan, 1975 / 1976.-

V.66 Retail Price of Meat and eggs in South Sulawesi, 1975 / 1976.

Kabupaten/Kodys'	Kind of Cow/Bufalo (Rp./kg)	Kind of Goat/Sheep (Rp./kg)	Kind of Pig (Rp./kg)	Kind of Chicken (Rp./ ..)	Duk (Rp./ ..)
K.M. U.Pandang	600	450	350	35	35
K.M.Pare-Pare	500	-	650	22.50	32.50
Bantaeng	450	-	550	22.50	22.50
Bone	300	300	-	25	25
Palopo	400	-	-	20	25
Polmas	475	325	-	17.50	17.50

Source : Laporan Tahunan, Inspektorat Dinas Peternakan Dati I Sulawesi Selatan, 1975 / 1976.-

Export, Inter insular of livestock and livestock product
from South Sulawesi Province 1969 - 1976 / 1977.-

Kind of animal	1969	1970	1971	1972	1973	1974	1975	1976 / 1977
1. Inter insular.								
- Horse	29	74	128	34	5	110	66	146
- C o w	3,316	7,490	8,534	8,066	8,021	11,985	10,267	21,300
- B u f f a l o	385	1,551	788	1,398	1,252	2,425	4,224	6,250
- G o a t	683	934	1,054	678	852	33	1,804	1,960
- S h e e p	-	-	-	-	-	-	-	-
- P i g	-	108	-	-	7	1,709	687	890
- C h i c k e n	-	-	-	-	-	13,164	-	-
- E g g s (kg)	-	-	-	-	602,400	378,710	630,553	670,425
- L e a d e r (kg)	-	-	-	-	48,208	-	-	-
2. E x p o r t								
- C o w	-	518	366	2,027	3,145	3,610	1,350	1,750
- B u f f a l o	150	131	2,858	7,870	3,281	3,240	800	920
- L e a d e r (kg)	-	-	-	256,292	-	283,600,5	448,961	448,975
- H o r n (kg)	-	-	-	-	-	-	20,335	20,570

Source : Animal Husbandry Office of South Sulawesi Province,

General Report of Pelita I and Pelita II, 1977.-

V. 68. Development of Cow population in South Sulawesi Province (1969 - 1976)

No. Year	Total Population	Decrease (A)				Increase (B)		Total increase	
		Dead	Slaughtered	Exported	Born	Imported	heads	%	
1. 1969	236,504	575	10,223	3,316	31,441	7	17,334	7.33	
2. 1970	248,604	448	11,663	13,114	37,293	-	12,098	4.87	
3. 1971	293,949	379	10,708	8,872	65,302	2	45,345	15.43	
4. 1972	232,219	745	11,722	10,193	51,930	-	29,270	12.60	
5. 1973	403,679	573	13,866	11,766	106,425	240	80,460	19.93	
6. 1974	431,109	600	19,311	15,568	61,976	533	27,430	6.36	
7. 1975	485,679	184	19,409	11,617	85,780	-	54,570	11.23	
8. 1976	536,975	425	23,681	10,750	84,042	2,089	51,275	9.54	
Annual rate	358,589	491	15,069	10,649	65,523	410	39,723	10.91	

Source: data from Animal Husbandry Office in South Sulawesi

Development of buffalo's population in South Sulawesi Province (1969 - 1976)

Unit : head

No. Year	Total Population	Decrease		Increase		Total increase %		
		Dead	Slaughtered	Exported	Born		Imported	
1. 1969	329,446	575	23,362	539	27,382	32	2,938	0.9
2. 1970	340,416	550	18,256	11,427	41,203	-	10,970	3.0
3. 1971	340,521	563	17,088	3,646	21,322	-	25	-
4. 1972	349,053	891	17,762	9,268	36,453	-	8,532	2.4
5. 1973	355,000	598	26,730	4,533	37,808	-	5,947	1.7
6. 1974	361,653	489	19,924	2,665	36,678	-	13,600	3.8
7. 1975	375,047	190	18,423	5,024	37,081	-	13,444	3.6
8. 1976	391,086	145	22,076	5,267	43,477	-	15,989	4.1
Annual rate	355,277	500	20,452	5,296	35,175	4	8,930	2.94

Source: data from Animal Husbandry Office in South Sulawesi.

V.70

Development of goat population in South Sulawesi Province (1969 - 1976)

Unit : heads

No. Year	Total Population	Decrease (A)			Exported	Born	Increase (B)		Total increase (B) - (A) heads	%
		Dead	Slaughtered	Imported						
1. 1969	192,383	93	1,555	685	15,333	95	13,095	6.80		
2. 1970	191,344	109	1,077	2,738	2,837	48	1,039	0.54		
3. 1971	201,192	247	984	1,054	12,133	-	9,848	4.89		
4. 1972	201,192	-	2,297	678	2,975	-	-	0		
5. 1973	207,256	-	3,016	852	10,032	-	6,164	2.97		
6. 1974	233,776	-	2,492	33	28,945	-	26,420	11.30		
7. 1975	288,941	321	3,442	1,804	60,732	-	55,165	19.09		
8. 1976	347,484	172	2,348	381	61,444	-	58,543	16.84		
Annual rate	232,946	118	2,151	1,028	24,303	18	21,024	7.66		

Source: data from Animal Husbandry Office in South Sulawesi

V.71 Development of sheep population in South Sulawesi Province (1969 - 1976)

Unit : heads

No. Year	Total Population	Decrease (A)			Increase (B)		Total increase (B) - (A) head	%
		Dead	Slaughtered	Exported	Born	Imported		
1. 1969	2,733	-	-	-	1,022	-	1,022	37.39
2. 1970	2,755	-	-	-	-	22	22	0.80
3. 1971	4,136	-	-	10	1,391	-	1,381	33.39
4. 1972	4,136	84	264	-	348	-	-	0
5. 1973	5,333	-	339	-	1,536	-	1,197	22.45
6. 1974	7,690	-	288	-	2,645	-	2,357	30.65
7. 1975	9,668	-	189	-	2,167	-	1,978	20.46
8. 1976	12,628	-	231	-	3,191	-	2,960	23.44
Annual rate	6,134	11	164	1	1,557	3	1,364	21.07

Source: data from Animal Husbandry Office in South Sulawesi

Development of pig population in South Sulawesi Province (1969 - 1976)

Unit : heads

No. Year	Total Population	Decrease (A)			Increase (B)			Total increase (B) - (A) heads	%
		Dead	Slaughtered	Exported	Born	Imported			
1. 1969	156,211	361	24,293	-	28,292	4	3,642	2.33	
2. 1970	191,624	287	7,808	6,074	9,582	60	4,527	2.36	
3. 1971	156,774	232	7,745	-	13,099	25	5,147	3.28	
4. 1972	156,774	-	8,521	-	8,521	-	0	-	
5. 1973	223,181	70	27,595	7	94,079	-	66,407	29.75	
6. 1974	244,678	181	21,605	1,709	44,992	-	21,497	8.79	
7. 1975	334,656	22	10,155	1,687	101,842	-	89,978	26.89	
8. 1976	424,658	100	20,768	136	111,004	-	90,000	21.19	
Annual rate	236,069	156	16,061	1,201	51,426	11	34,018	11.23	

Source: data from Animal Husbandry Office in South Sulawesi

V.73 Development of horse population in South Sulawesi Province (1969 - 1976)

No. Year	Total Population	Decrease (A)				Born	Increase (B) Imported 2)	Total increase (B) - (A)	%
		Dead	Slaughtered	Exported 1)	head				
1. 1969	137,213	42	859	29	8,379	31	7,480	5.45	
2. 1970	139,759	71	306	216	3,139	-	2,546	1.82	
3. 1971	146,752	49	414	128	7,584	-	6,993	4.77	
4. 1972	146,752	51	629	34	714	-	0	0	
5. 1973	158,657	233	711	5	12,854	-	11,905	8.11	
6. 1974	155,421	148	373	110	2,605	-	1,974	1.27	
7. 1975	167,102	1,103	658	65	8,297	-	6,471	3.87	
8. 1976	174,568	432	982	111	8,991	-	7,466	4.28	
Annual rate	153,278	266	616	87	6,570	4	5,604	3.69	

Note : 1) Exported, include inter-insular trade.

2) Imported, include introduce the new one.

This note will be applied to the following tables 1.2 - 1.6.

Source: data from Animal Husbandry Office in South Sulawesi

V. 74

Number of slaughtered animal in South Sulawesi Province

1969 - 1976/1977

Kind of animal	1969/70	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77
1. Horse	853	306	414	629	711	373	658	951
2. Cow	10,223	11,633	10,708	11,722	13,866	19,311	19,409	22,646
3. Buffalo	23,362	18,256	17,008	17,762	26,730	19,924	18,483	21,621
4. Goat	1,555	1,077	984	2,297	3,016	2,492	3,427	2,166
5. Sheep	-	-	-	264	339	288	189	135
6. Pig	24,243	7,808	7,745	8,521	27,595	21,605	10,155	20,768

Source : Animal Husbandry Office of South Sulawesi
Province General Report of Pelita I and
Pelita II 1977.

V.75 Supply and Demand of livestock product in South Sulawesi Province (1976).--

Year	Commodities	S u p p l y			D e m a n d		
		Pro- duction	Inter- insu- lair	Import	Consumption region	Inter-insular	Export
1976	C o w	83,517	-	2,089	22,646	21,300	1,750
	Buffaloes	43,332	-	-	21,621	6,250	920
	Horse	8,559	-	-	951	146	-
	G o a t	61,272	-	-	2,186	1,960	-
	Sheep	3,191	-	-	135	-	-
	P i g	110,904	-	-	20,768	136	-

Source: data from Animal Husbandry Office in South Sulawesi

Estimation of livestock population and estimation of meat availability
(1976 and 1981)

No. Livestock	Population 1976 (head)	Average growth 1977 - 1981 (%)	Average growth 1977 - 1981 Pelita (%)	Percentage usable (1977) (%)	Average live weight (Kg)	Percentage of carcass (%)	Livestock available for utilization		Meat available for utilization		
							1976 (head)	1981 (head)	1976 (ton.)	1981 (ton.)	
1. Cows	539,686	15.75	17.5	10.0	250	50	53,968	77,478	3,036	4,358	
2. Bulls	383,199	10.31	11.0	7.5	300	50	28,739	34,133	1,940	2,304	
3. Horses	171,112	3.60	4.0	3.0	200	50	5,133	5,340	231	240	
4. Goats/Sheep	497,440	16.99	25.0	20.0	20	50	99,488	126,974	398	508	
5. Pigs	364,461	24.95	27.5	25.0	50	80	91,160	103,138	1,823	2,063	
6. Poultry	12,629,945	158.8	127.9	120.0	0.75	75	15,155,934	15,155,934	5,968	8,768	
							Total :		13,396	18,241	

Source: data from Animal Husbandry Office

Estimation Production of grass as feed stuffs in 1975 and in the future in South Sulawesi.

V.77

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Population	Acreage	Estimation	Estimation	Estimation	Estimation	Estimation	Estimation	Surplus
		of grass	of produc-	of require-	of shortage	of acreage	Production of	Production of	(ton)
		land	tion of	ment of	of grass	of grass	grass after cpe-	grass after cpe-	
		(ha.)	grass	grass (ton)	(ton)	production	ration of impro-	ration of impro-	(%)
						area outside	vement (ton)	vement (ton)	
						grass land			
						(ha.)			
C o w a	539,686	590,000	4,307,000	9,214,000	4,907,000	672,191	10,767,500	1,553,500	17
Buffaloes	383,199								
Goats	171,112								
Sheep	497,440								

Note : (%) = (7) - (4).

Source: data from Animal Husbandry Office

V. 78.

Planted Area of Estate Crops in South Sulawesi

Commodities	1969		1970		1971				
	1 (ha)	2 (tons)	1 (ha)	2 (tons)	1 (ha)	2 (tons)			
Coconut	70,051	57,357	8.19	76,614	61,802	8.07	85,419	51,194	5.99
Coffee	21,219	6,429	3.03	23,200	6,200	2.82	25,358	7,728	3.03
C a p o k	17,741	1,719	0.97	18,311	2,632	1.44	19,279	3,836	1.98
Pepper	342	46	1.35	644	39	0.61	848	109	1.29
Clove (Cengkeh)	286	0.23	0.01	413	0.50	0.01	1,082	0.59	0.01
Nutmeg (Pala)	179	4.25	0.24	261	6.05	0.23	515	10.00	0.19
Tobacco Virginia	-	-	-	1.50	1.90	12.67	67	70.20	10.48
Tobacco Rakyat	15,673	6,897	4.40	10,973	4,214	3.84	10,284	4,015	3.90
C o t t o n	-	-	-	-	-	-	-	-	-
S e s a m e	-	-	-	-	-	-	2,912	276	0.95
Sugar Cane	571	9,492	166.23	447	9,682	216.60	434	6,890	158.76
Kenaf (Rosella)	-	-	-	-	-	-	-	-	-
Capallenut	22,750	4,739	2.08	27,670	4,593	1.66	28,866	10,513	3.64

Source: data from Animal Husbandry Office

Planted Area of Estate Crops in South Sulawesi.-- (1972 - 1974)

Commodities	1972		1973		1974	
	1 (ha)	2 (tons)	1 (ha)	2 (tons)	1 (ha)	2 (tons)
Coconut	85,649	54,739	90,242	55,554	92,058	61,791
Coffee	23,758	5,001	23,773	5,325	24,652	6,094
C a p o k	15,173	2,063	18,882	2,291	20,451	2,445
P e p p e r	472	88	466	105	551	108
Clove (Cengkeh)	1,701	1.61	2,105	7.43	3,177	10.55
Nutmeg (Pala)	436	16.30	405	5.30	644	4.71
Tobacco Virginia	100	170	100	168	660	799
Tabacco Rakyat	5,674	1,740	10,618	3,164	11,667	3,939
C o t t o n	-	-	546	18	547	342
Sesame	638	108	1,184	481	1,328	631
Sugar Cane	323	2,988	355	2,125	604	2,853
Kanaf (Rosella)	-	-	-	-	650	173
Candlemut	26,066	6,924	25,932	10,133	26,884	10,605

Source: data from Animal Husbandry Office

Planted Area of Estate Crops in South Sulawesi 1975 / 1976

Commodities	1975		1976		Average	
	1 (ha)	2 (tons)	1 (ha)	2 (tons)	1 (ha)	2 (tons)
Coconut	97,479	64,935	100,152	67,862	87,208	58,654
Coffee	25,276	6,625	25,481	5,690	24,090	6,178
C a p o k	24,357	3,159	25,303	2,176	19,937	2,540
P e p p e r	685	124	758	129	596	94
U l o v e (Cangkeh)	6,000	15.20	8,454	29.86	3,002	8.25
Muntzig (Pala)	767	9.68	877	11.52	511	8.48
Tabacco Virginia	1,192	1,036	1,332	1,265	493	501
Tabacco Rakyat	9,524	4,753	13,671	4,623	11,011	4,243
C o t t o n	1,171	474	892	217	789	263
S e s a m e	763	194	368	111	1,199	300
Sugar Cane	576	2,479	551	1,384	483	4,737
Kenaf (Rosella)	571	486	586	418	602	359
Candlemut	27,343	10,896	27,295	9,629	26,601	8,504

Note : 1. Planted Acreage

2. Production

3. Yield

Source : DINAS PERKEBUNAN PROPINSI SULAWESI SELATAN.

Planted Area of Estate Crops in South Sulawesi 1976.

Commodities	Farm household			Planted Area		Total (ha)	Production (tons)	Production in plantation (st/ha)	acreage in plantation (ha)
	A (ha)	B (ha)	C (ha)	A (ha)	B (ha)				
Cocunut	162,325	31,948	65,049	3,155	100,152	67,862	2,030	6.78	3.0
Coffee	75,068	7,005	17,427	1,049	25,487	5,690	200	2.23	0.9
C a p o k	40,462	13,165	9,419	2,720	25,304	2,176	170	0.86	1.9
Pepper	7,562	441	286	31	758	129	20	1.70	0.1
Clove (Cengkeh)	22,661	8,297	152	5	8,454	20	4	0.04	0.9
Nutmeg (Pala)	3,410	857	16	4	877	12	6	0.13	0.5
Tabacco Virginia	4,323	20	1,312	-	1,332	1,265	-	9.50	-
Tabacco Rakyat	7,530	160	13,511	-	13,671	4,623	-	3.38	-
C o t t o n	4,668	-	892	-	892	217	-	2.43	-
Sesame	415	81	287	-	368	111	-	3.02	-
Sugar Cane	1,608	124	427	-	551	1,384	1,000	25.12	0.4
Kenaf (Rosella)	-	159	427	-	586	413	140	7.13	0.2
Candlenut	45,231	6,869	19,342	1,084	27,295	9,629	350	3.52	1.0
C a c a o	300	152	31	-	183	10	-	0.55	0.0
J a r a k	914	-	275	-	275	82	30	2.98	0.1
T o t a l	376,477	69,278	128,853	8,048	206,179				

Note : A. New Planted area
 B. Harvested area
 C. Area of old tree
 Without Area of Plan-
 tation area

Source: Dinas Perkebunan
 Propinsi Sul-Sel.

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V. 82. Plantation Area in South Sulawesi.

S t a t u s	Total Area		Planted Area		Prepared Area		Note	Coconut	3,040 ha	Nutmeg	520 ha
	(ha)	(ha)	(ha)	(ha)	(ha)	(ha)					
Domestic management	109,152	7,849	101,303				Coffee	895	Sugar Cane	400	
Foreigner management	7,109	1,778	5,331				Kapok	1,913	Kenaf	200	
Joint Venture	2,000	-	2,000				Pepper	83	Candlenut	1,020	
							Clove	915	Cacao	28	
							Sarah	94	Jarak	100	
T o t a l	118,261	9,627	108,634						Sorghum	190	
									Mized Cop.	229	
									Total	9,627	

Source: Dinas Perkebunan Sul - Sel.

VI

RESULT OF THE SURVEY ON PRODUCTION COST
& FARM PRACTICE IN SOUTH SULAWESI
=====

DATA USED FOR THE MAKING OF A MASTER PLAN

Result of field survey

The field survey that have been carried out by the ATA-140 project was consists of :

- 1) Basic survey for the whole Kabupatens in South Sulawesi
- 2) Sampling survey in depth on several designated Kabupatens.

Either the basic survey nor the sampling survey in d pth had been not yet finished. Especially those concern with sampling survey in depth covered:

- 1) Production cost by commodity
- 2) Farm practices

To this survey the description are as below:

1. Production cost by commodity.

The aims of the survey on production cost by commodity is to get the data of expences/cost for each commodity, by means of to learn of some commodity wich is suitable for expansion from the view point of economic profit.

The production cost survey was aimed mainly to the labor cost and expences for equipment. The labor cost is important to know because his connection with extending of employment opportunities, beside that those which concern with material/equipment expences was also important on his connection to the necessity of providing facilities.

This kind of survey has also an important means to the income of the farmer from the view point of farm practice.

The result of the production cost survey on several commodit-ies which have been processed on this report was not yet enough to say accurate because of some short comings, so that it is necessary to be continued on the next step. The conclusion concerning the result of analysis on production cost should give more a clear view if the supplementary survey have been made.

The first view which could be given as a temporary figure of the result of production cost on some commodity is shown on the following tables.

- Economic aspects of farm product (draft)

ECONOMIC ASPECTS OF FARM PRODUCTS (DRAFT)
 - RESULT OF FIELD SURVEY -

INDEX	COMMODITY	Paddy Wet season	Paddy Wet season	Paddy dry season	Corn	Cassava
METHOD OF CULTIVATION						
(TRADITIONAL : NEW TECHNIC BIMAS, INMAS, ETC.						
		by tractor	traditional, type	by animal	up land	up land
GROSS PRODUCTS						
	Area planted	'ha	1.00	1.00	1.00	1.00
	Products	'ton/ha'	2,500	2,000	0,670	7,000
	Unit Price	'Rp/ton'	71,500	71,500	35,000	10,000
	(A) Gross products		178,750	143,000	23,450	70,000
LABOR FORGE						
	Family labors	'day	-	24	30	70
	Empeloyed labors	'day	200.3	33	10	-
	Total labors	'day	200.3	57	40	70
	Animals	'day	-	10	-	-
	Machines	'day	1.5	-	-	-
PRODUCTION COSTS						
	Cost of employed labor	'Rp	19,316	12,800	2,000	-
	Cost of material	'Rp	23,620	29,400	2,850	10,400
	Cost of deprecation	'Rp.	18,000	-	-	-
	Chargersand fees	'Rp.	58,620	22,000	-	-
	Tax	'Rp.	5,000	-	-	-
	(C) Production Cost	'Rp.	124,556	64,200	4,850	10,400
INCOME PROFIT						
	(D) Family in income (A-c)	'Rp.	54,194	78,800	18,600	59,600
	(E) Cost of family labor	'Rp.	-	16,000	6,000	13,000
	(F) Farm profit (D-E)	'Rp.	54,194	62,200	12,600	41,600
	(G) Labor productivity (D:B) Rp/day'		537	1,091	465	851

ECONOMIC ASPECTS OF FRAM PRODUCTS (DRAFT)
 -- RESULT OF THE FIELD SURVEY --

INDEX	COMMODITY	Green bean	Soy bean	Ground bean	Sweet Potato	Banana
METHOD OF CULTIVATION						
(TRADITIONAL : NEW TECHNIC)						
BIMAS, INMAS, ETC.						
		traditional type	traditional type	traditional	traditional	traditional
GROSS PRODUCTS	Area planted	'ha	1.00	1.00	1.00	1.00
	Products	'ton/ha'	0,290	1,410	0,800	1,000
	Unit Price	'Rp/ton'	125,000	70,000	120,000	20,000
	(A) Gross products		36,500	98,700	120,000	35,000
LABOR FORCE	Family labors	'day	20	10	95	53
	Employed labors	'day	-	30	37.5	15
	(B) Total labors	'day	20	40	132.5	68
	Animals	'day	-	-	-	10
	Machines	'day	-	-	-	-
PRODUCTION COST	Cost of employed labor	'Rp.	-	6,000	14,400	28,650
	Cost of material	'Rp.	3,500	9,500	7,500	3,000
	Cost of depreciation	'Rp.	-	-	-	-
	Charges and fees	'Rp.	-	-	-	16,500
	Tax	'Rp.	-	-	-	-
	(C) Production Cost	'Rp.	3,500	15,000	21,900	48,150
INCOME PROFIT	(D) Family income (A-C)	'Rp.	32,750	83,200	74,100	71,850
	(E) Cost of family labor	'Rp.	4,000	2,000	15,000	10,600
	(F) Farm profit (D-E)	'Rp.	28,750	81,200	19,100	61,250
	(G) Labor productivity (D:E)	'Rp/day'	1,638	2,080	559	900
						1,117

ECONOMIC ASPECTS OF FARM PRODUCTS (DRAFT)
 -- RESULT OF THE FIELD SURVEY --

INDEX	COMMODITY	Papae	Cabbage	Onion	Sesame	Pepper
METHOD OF CULTIVATION						
	(TRADITIONAL : NEW TECNIC)	Traditional	high land	after har	up land	up land
	BIMAS, INMAS, ETC.	area tradi-	vested	traditional	traditional	traditional
		tional type	paddy			
		traditional				
GROSS PRODUCT		'ha	'ha	'ha	'ha	'ha
	Area planted	1.00	1.00	1.00	1.00	1.00
	Products	'ton/ha'	5,000'	2,500'	0,390'	0,450'
	Unit Price	25,000	20,000	50,000	171,000	650,900
	(A) Gross products	46,875	100,000	125,000	66,890	292,500
LABOR FORCE		'day	'day	'day	'day	'day
	Family labors	30	10	70	15	120
	Employed labors	10	175	50	9	30
	(B) Total labors	40	185	120	24	-
	Animals c	-	-	-	-	-
	Machines	-	-	-	-	-
PRODUCTION COST		'Rp.	'Rp.	'Rp.	'Rp.	'Rp.
	Cost of employed labor	5,000	35,000	10,000	3,000	6,000
	Cost of material	600	24,000	54,050	1,800	67,950
	Cost of depreciation	-	-	-	-	-
	Charges of depreciation	-	-	-	-	-
	Tax	-	-	-	-	-
	(C) Production Cost	5,600	59,000	64,050	4,800	73,950
INCOME PROFIT		'Rp.	'Rp.	'Rp.	'Rp.	'Rp.
	(D) Family income (A-C)	41,275	41,000	60,950	61,890	218,550
	(E) Cost of family labor	6,000	2,000	14,000	3,000	24,000
	(F) Farm profit (D-E)	35,275	39,000	46,950	58,890	194,550
	(G) Labor productivity (C:E)	1,032	222	508	2,579	1,457

ECONOMIC ASPECTS OF FARM PRODUCTS (DRAFT)
 - RESULT OF THE FIELD SURVEY -

INDEX	COMMODITY	Coffee	Glove	Walnut	Shrimp	Milk Fish
METHOD OF CULTIVATION						
	(TRADITIONAL : NEW TECNIC)	Traditional	Traditional	Traditional	Traditional	Traditional
	BIMAS, INMAS, ETC.					
GROSS PRODUCE	Area planted	'ha	1,00	1,00	1,00	1,00
	Products	'ton/ha	0,330	0,200	0,125	1,000
	Unit Price	'Rp/ton	3,750,000	267,000	2,500,000	300,000
	(A) Gross products		224,400	132,966	312,500	300,000
LABOR FORCE	Family labors	'day	15	10	30	212
	Employed labors	'day	20	100	-	36
	Total labors	'day	35	110	30	248
	Animals	'day	-	-	-	-
	Machines	'day	-	-	-	-
PRODUCTION COST	Cost of employed labor	'Rp.	4,000	2,000	-	55,096
	Cost of material	'Rp.	4,000	45,000	7,500	71,519
	Cost of depreciation	'Rp.	-	-	-	-
	Charges and fees	'Rp.	-	-	-	7,672
	Tax	'Rp.	-	-	-	6,500
	Production Cost	'Rp.	8,000	47,000	7,500	140,807
INCOME PROFILE	(D) Family income (A - C)	'Rp.	216,400	703,000	125,466	171,693
	(E) Cost of family labor	'Rp.	3,000	2,000	6,000	10,800
	(F) Farm profit (D - E)	'Rp.	213,400	701,000	119,466	160,893
	(G) Labor productivity(D:E)	'Rp/day	6,183	6,390	4,182	692
						2,056

- N O T E : 1) Products : Average harvested products during recent 3 - 5 years
2) Unit price : Received by farmer at farm gate
3) Gross products : (Sales + produce for human consumption on the farm or - stock variations)
4) Production cost : (Purchase of goods and service (including water) + depreciation and taxes
+ wages, rent interest (real)
5) Family in come : (Cash + Produce Consumed on the farm) = Gross product (A) - production cost (C))
6) Farm profits : (Return on family's own funds) = (Family income - National remuneration of farmers
and family workers)
: Exclud tenant.

The report is made by the followings

- 1) Farmers always keep stock variations for each year.
- 2) Water charge is mainly forced labor on Gotong Royong.
- 3) Survey is done on farmings of their own lands.
- 4) Transportation cost after harvesting from farm to land owner house be long to the cost of employed labor force.-

2. Farm practice.

i) Farm structure.

The farm structure in South Sulawesi has the figures of the family farm, by means of the entire farmers family are directly involved with farm operation, the works on the farm are done by them which means also a support to development/improvement of their farm.

Because the main aims of this type of farm of family farm are directed to meet the needs and demands of the family themselves, in which then could be said that the farm structure in South Sulawesi figures an subsistan Agriculture.

ii) Condition of farm household and the size of landholdings.

The farm household condition and the size of land holder could be seen on table as shown below:

Amount of farms	Size (ha)	Situation of Farm household labour	Total	Average farm
19	42.94	Farm household	117	6
	-	Household labor	79	4
	-	Farm labor	61	3

Source : Data primer 1977.

The table above shows that the average size of farms are 2.26 ha, with an average amount of family for about 6 persons and beside that an household labor of average 4 person and an labor of average 3 persons.

III) The use of labor force.

a) The amount and the comparative of labor force.

Concerning the labor use on farms in South Sulawesi it could be seen on the next table.

The use of labor on farms per year

Amount of farms	Size (ha)	Labor use	Total	Average labor use on farms
19	42.94	Farm household labor	61	3
	-	Labor outside farm family	2,264	119

Source : primer data 1977.

On the table above shows that the use of labor on the farm are 3 person farm household labor and 119/year labor from outside the family, while the use of labor on multiple cropping gives the figures on table below.

The use of labor on mixed farming per year

Amount of farms	Size (ha)	Labor use	Total	Average labor per farm
14	29.87	Farm household labor	42	3
		Labor outside the family	1.793	128

Source : primer data 1977.

The table above shows the use of labor on farms (multiple cropping) are 3% of farm household labor and 128% of labor outside the family. It seems that the use of labor outside the farm family are to considered large.

The reason of this matter is, taht there is some habits which is customary still in practice, namely the "gotong royong" (self hel cooperation).

The use of labor on estate crop farms could be seen on the following table.

Labor use on estate crop farms per year

Amount farms	Size (ha)	Labor use	Total	Average per farm
4	6.75	Farm household labor	12	3
		Labor outside the farm family	150	37

Source : Primer data 1977.

The table above shows taht the labor use are 3 persons of farm household labor and 37% of labor outside the farm family. This means that there is a differ of the use of labor outside the farm family on the estate crops farm and the multiple cropping.

If in the estate crop farm the number of labor outside the

farm family according to aims should be figured on the table below:

The distribution of the use of labor outside the farm family on multiple cropping per year.

Amount of farms	Month	Labor use	%	Average of labor use per farm unit	%
14	1 - 3	480	26.77	34	26.56
	4 - 6	487	27.16	35	27.34
	7 - 9	440	24.54	31	24.22
	10 - 12	386	21.53	28	21.88

Source : Data primer 1977.

It is shown on table above that the distribution of labor use are not so quite differ concerning the required time using.

The reason is because of the geographic location of South Sulawesi, which could be experienced by the 2 monsoon, namely the West monsoon and the East monsoon, which gives each of them rain-fall distribution for agricultural activities.

iv. Farm operation problems.

The problems the farmers has to faced on tehir effort of carrying iut the farm operation are as follows:

1) Water facilities difficulties and problems.

At the recent time there are only 2 Kabupatens in South Sulawesi (Sidrap and Pinrang) that could be said to have enough water through the year for sgricultural activities purposes, while other areas suffered and still limited. In this case the Government gradually takes the necessary steps to solve the water problems through a development policy of establishing new rehabilitation and development projects on the field of irrigation.

Because of the irrigation water are very limited, which means also to be one of the limiting factor which has a close connection to agriculture, because other factors which also urge the activities on agriculture development such as biological technology, chemistry and also mechanical technology has been introduce even it is still limited.

2) Climate fluctuations.

The fact is, that the problem of climate fluctuation is a matter of natural which could happen anywhere. But in this case for South Sulawesi it will give some impact that might be caused on the socio economic situation.

The agricultural activities in this region because of this fluctuation of climate (1972) could have influence by delay, because water irrigation.

VOLUME III
The Final Report on Phase I,
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