Table F-1-1 Gross Regional Domestic Product (GRDP) by Study Province, 1994-1995

		A. Caren	Ar Current Market Price			At C	onstant 1997	At Constant 1993 Market Price	ນ	
Province	1994 (Billon Rp.)	1995 (Billion Rp.) (% in 1995)	(% in 1995)	Per Capita GRDP in 1995 (Rp.)	1994. (Billon Rp.)	1995 (Billon Rp.) (% in 1995)	% in 1995):	Growth Rate (%)	ate (%) 1995	Per Capita GRDP in 1995 (Rp.)
North Sumatra - GRDP - GRDP excluding oil and its products	21.678.595	24,686,430 24,231,989	(5.4) (5.8)	2,231,401 2,190,324	19,941,331	21,802,508	(5.7)	(10.11)	(9.33)	1,970,723
West Java - GRDP - GRDP excluding oil and its products	62,400.244 59,595.945	73,333,011	(16.1)	1,882,791	55,385,039	60,840,114 58,103,065	(15.9)	(8.03)	(8.61)	1,562,042
East Java - GRDP - GRDP excluding oil and its products	57,146,453 57,132,627	66.191,134	(14.6) (15.8)	1.961,154	52,727,481	57,047,812	(14.9)	(7.23)	(8.19)	1,689,702
South Sulawesi - GRDP - GRDP excluding oil and its products	8,737.851	10.294,163	(2.3)	1,368,896	8.088.147	8,737,060	(2.3)	(7.67)	(8.02)	.161,835
Study Area - GRDP - GRDP excluding oil and its products	149,963.143	174,526,172	(38.4) (40.9)	1.911.686	(37,141,998) 133,825,470	148,427,494	(38.7)	ı t	(8.23)	1.625.312
D.K.I. Jakarta - GRDP - GRDP excluding oil and its products	58.785.331	69.846,959	(15.4)	7.700.878	55.505.268	60,638.217	(15.8)	(8.61)	(9.25)	6,685,581
Indonesia - GDP - GDP excluding oil and its products	382,219,600 348,710,500	454,514,100° 417,705,800	(100.0)	2,345,879 2,155,901	354,640,800 320,652,400	383,792,300 350,290,000	(100.0)	(7.54)	(9.24)	1,980,864

Source: Statistical Year Book of Indonesia, 1995 & 1996.

Table F-1-2 Fruit Production in the Study Area, 1994-1996

Major Fruits / Provinces	North Sumatra	(%)	West Java	(%)	East Java	(%)	South Sulawesi	(%)	Study Area	(%)	Indonesia	(%)
Avocado (Alpokat) - 1994 - 1995	3,451	(3.38)	43,975	(43.10) (46.88)	22,322 35,090	(21.88)	6,119	(9.00)	75.867	(74.35)	102.037	
- 1996 Average (1994-1996)	3,271	(1.65) (2.06)	77,890 66.044	(39.36) (42.83)	51,867 36,426	(26.21) (23.62)	21,576 11,120	(10.90) (7.21)	154,604 116.763	(78.13)	197.87; 154.202	(180.86) (180.86)
Banana (Pisang) - 1994	108,409	(3.51)	508.010	(29.80)	£r9'96r	(16.09)	234,396	(7.59)	1,759,343	(57.00)	3.086,557	(100.00)
1995	102,646	(0.70) (0.70)	1,130,741	(28.30)	676,352	(17.77) (20.26)	194,668 214,126	6.12 0.12	2,104,407	(55.30)	3,805,430	(100:00)
Average (1994-1996)	119.639	(3.63)	967.263	(29.31)	\$94,115		214,397	(6.50)	1,895,405	(57.44)	3,299,910	(100.00)
Lanzon (Duku / Langsat) - 1994	2,337	(2.65)	12,28/	(13.92)	£\$; ;	(5.05)	3,632	(4.12)	22.703	(25.74)	88.214	
- 1995	3,892	(27.2)	14,780	(10.33)	8,367	(5.85)	19,401	(13.56)	46,440		650,541	
- 1996 Average (1994-1996)	2,920	(2.27) (2.56)	13,060	(10.86) (11.43)	3,468		19,069	(17.10)	35,187	(33.34)	111,542	(180.00)
Durian 1994	38.737	(14.42)	8F18F	(17.92)	12,945	(4.82)	7,331	(2.73)	107,161	(39.88)	268.716	(100:00)
\$661 -	27,116	(16.27)	30,318	(10.47)	31,643	(10.92)	12,844	(4.43)	121.921		289,648	-
- 1996 Average (1994-1996)	37,594	(7.8%) (12.53)	24,080	(15.83)	16,118 20,235	(4.72)	10,111	(3.37)	112,123	(37.37)	300.000	(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)
Mango (Mangga) - 1004	۶۵۲ ۶	(87.0)	SFF 191	(27.72)	248.923	(37.26)	35,555	(5.32)	451.146	(67.53)	668.048	(100:00)
- 1995	5,795	(0.65)	136,426	(15.35)	396,599		56,703	(6.38)	595,523		888.960	
_	6.022 5.680	(0.71)	129.741	(10.88)	352,172 332,565	(41.96) (41.63)	87,453 57,904	(7.25)	525.890	(65.84)	798.764	100.00
Rambutan - 1994	12.406	(3.83)	115,357	(35.66)	44.585	(13.78)	5,934	(1.83)	178.282		323,495	(100:00)
\$661 -	097'6	(2.60)	61.167	(16.80)	49,246		6,353	(1.75)	126.226	(34.67)	364,036	(1888) (888)
- 1996 Average (1994-1996)	8,968 9,968	(1.78)	96.298	(17.24)	65,176		009'9	(1.18)	178.042	;	558,495	(28.8 (28.8 (38.8)
Salak • 1994		(37.72)	69,132	(23.66)	8,737	(2.9%)	9,217	(3.15)	197,328	(67.52)	292.246	292.246 (100.00)
- 1995 - 1996 Average (1994-1996)	55,461	(18.1%)	575,022 64,003 170,719	(22.40)	12,124	(4,2,4) (4,2,4) (8,6)	8.799	(3.08) (2.92)	140,387		285,745	888

Notes: No data on marquisa and mangosteen. Figures of the target fruits are in "hold" characters. Source: Statistical Year Book of Indonesia, 1995 & 1996.

F - 24

Table F-2-1 Basic Data on the Administrative Division and Socio-economy in North Sumatra

Districts (Kabupaten) Municipalities (Kodya)	Capitals	No. of Sub-districts	No. of Villages	Area (km²)	Population (1995)	No. of Households	Pop. Density (Pers /km²)	
(Kabupaten)			!				1	
1. Nias	Gunung Siteli	17	657	5,318	646,158	129,216	122	983
2. Tapanuli Selatan	Padang Sidempuan	23	1,542	18,897	1,053,056	228,992	. 56	683
3. Tapanuli Tengah	Sibolga	. 8	144	2,188	238,659	47,776	109	1,657
4. Tapanuli Utara	Tarutong	29	610	10,605	713,015	161,824	67	1,114
5. Labuhan Batu	Rantau Prapat	18	238	9,323	832,787	174,848	89	3,499
6. Asahan	Kisaran	17	246	4,581	925,920	193,536	202	3,764
7. Simalungun	Pematang Siantar	21	207	4,369	841,516	184,192	193	4,065
8. Đại ri	Sidikalang	12	158	3,146	291,253	61,600	93	1,843
9. Karo	Kabanjahe	13	258	2,327	274,256	71,948	129	1,063
10. Deli Serdang	Lubuk Pakam	33	637	4,339	1,785,188	372,736	411	2,802
II. Langkai	Stabat	17	215	6,262	856,419	184,384	137	3,983
(Municipality)						<u>;</u>		:
12. Sibolga	Sibolga	. 3	. 16	11	76,934	15,808	6,994	4,808
13. Tanjung Balai	Tanjung Balai	5	30	58	113,199	21,600	1,952	3,773
14. Pematang Siantar	Pematang Siantar	6	38	70	229,888	47,616	3,284	6,050
15. Tebing Tinggi	Febing Tinggi	3	27	31	129,240	27,360	4,169	4,787
16. Međan	Medan	21	151	265	1,901,935	380,768	7,177	12,596
17. Sinĵaî	Sinjai	5	37	90	205,244	41,600	2,280	5,547
Total	-	251	5,241	71,680	11,114,667	2,345,804	155	2,121

Source: Sumatera Utara Dalam Angka 1995 (North Sumatra in Figure 1995), Statistical Office of North Sumatra and Results of the 1995 Intercensal Population Survey, Series \$2.02, Central Bureau of Statistics, Indonesia

Table F-2-2 Basic Data on the Administrative Division and Socio-economy in West Java

Districts (Kabupaten) Municipalities (Kodya)	Capitals	No. of Sub-districts	No. of Villages	Area (km²)	Population (1995)	No. of Households	Pop. Density (Pers./km²)	Population per Village
(Kabupaten)						;	;	
I. Pandeglang	ditto	18	335	2,718.8	921,798	203,328	339.0	2,752
2. Lebak		19	300	3,186.9	954,088	217,624	299.4	3,180
3. Bogor		33	530	3,930.8	4,415,195	971,168	1,123.2	8,331
4. Sukabumi		31	356	4,161.2	1,970,170	507,744	473.5	5,534
5. Cianjur		24	313	3,649.2	1,757,430	436,704	481.6	5,615
6. Bandung	,,,	41	451	3,131.7	3,383,233	822,304	1,080.3	7,502
7. Garut	,,,	31	403	3,209.6	1,832,213	423,968	570.9	4,546
8. Tasikmalaya		30	412	2,815.4	1,869,619	469,792	664.1	4,538
9. Ciamis	-	32	358	2,643.5	1,536,347	434,368	581.2	4,291
10. Kuningan		. 19	369	1,114.5	917,530	223,850	823.2	2,487
11. Cirebon		23	424	1,023.2	1,772,953	412,204	1,732.7	4,181
12. Majalengka		19	327	1,227.9	1,067,948	287,530	869.7	3,266
13. Sumedang	, ,	18	269	1,445.0	860,101	239,262	595.2	3,197
14. Indramayo		22	310	1,995.9	1,513,209	400,064	758.2	4,881
15. Subang		20	250	1,911.1	1,239,295	349,637	648.5	4,957
16. Purwakada	, ,	: 11	192	1,012.8	602,711	157,967	595.1	3,139
17. Karawang	-	17	302	1,661.6	1,582,991	412,863	952.7	5,242
18. Bekasi		22	237	1,570.1	2,757,376	616,736	1,756.1	11,634
19. Tangerang		19	303	1,250.4	2,401,216	537,984	1,920.4	7,925
20. Serang	-	30	412	1,999.7	1,634,688	339,936	817.5	3,969
(Municipality)						1		
21. Bogor	ditto	6	22	24.4	285,114	64,752	11,704.3	12,960
22. Sukabumi	, ,	4	15	B.1	125,766	31,008	9,634.9	8,38-
23. Bandang	"	26	135	217.9	2,356,120	559,360	10,810.4	17,45
24. Cirebon	"	5	22	38.7	261,574	57,344	6,767.5	11.89
25. Tangerang	н	6	57	205.4	1,188,102	275,136	5,784.9	20,84
Total	<u> </u>	526	7,104	47,782.3	39,206,787	9,452,633	820.5	5,51

Source: Jawa Burat Dalam Angka 1995 (West Java in Figure 1995). Statistical Office of West Java Results of the 1995 Intercensal Population Survey. Series S2 10, Central Bureau of Statistics, Indonesia

Table F-2-3 Basic Data on the Administrative Division and Socio-economy in East Java

Districts (Kabupaten)/ Municipalities (Kodya)	Capitals	No. of Sub-districts	No. of Villages	Area (km²)	Population (1995)	No. of Households	Pop. Density (Pers /km²)	Population per Village
(Kabupaten)		1			2			
1. Pacitan	ditto	12	164	1,310.5	505,870	138,752	386	3,085
2. Ponorogo		19	303	1,314.1	852,494	221,728	650	2,814
3. Trenggafek	ч	13	157	1,205.2	646,054	166,792	536	4,115
4. Tulungagung	•	19	271	1,055.0	906,587	236,704	859	3,345
5. Blitar	**	21	248	1,651.9	1,049,615	277,935	635	4,232
6. Kediri	*	21	344	963.2	1,378,720	340,544	1,431	4,008
7. Malang		35	406	4,728.8	2,331,018	564,201	493	5,741
8. Lumajang	и	18	198	1,790.9	936,289	244,079	523	4,729
9. Jember	14	28	240	2,943.9	2,105,503	578,873	714	8,773
10. Banyuwangi	"	19	179	5,782.5	1,472,638	406,544	255	8,227
11. Bondowoso		17	192	1,560.1	670,900	198,732	430	3,494
12. Situbondo		17	135	1,457.7	590,310	181,040	405	4,373
13. Probotinggo	· .	24	330	1,397.5	958,435	257,720	686	2.904
14 Pasuruan		24	365	1,293.5	1,267,328	324,352	980	3,472
15. Sidoarjo	.	18	353	591.6	1,347,674	335,296	2,278	3.818
16. Mojekerto	"	17	304	826.7	829,315	203,040	1,003	2,728
17. Joinbang		20	306	1.159.5	1,083,994	270,300	935	3,542
18. Nganjuk		20	277	1,182.6	964,589	251,330	816	3,482
19. Madiun		15	206	1,009.1	640,194	174,495	634	3,108
20. Magetan	h	13	235	672.7	629,678	160,308	936	2,679
21. Ngawi		16	215	1,245.7	805,726	225,970	647	3,749
22. Bojonegoro		23	430	2,384.0	1,142,088	289,595	479	2,656
23. Tuban		19	328	1,904.7	1,020,139	250,222	536	3,110
24. Lamongan	•	25	475	1,812.8	1,175,751	280,156	649	2,47
25. Gresik		18	357	1,137.1	914,838	213,792	805	2,56
26. Bangkalan		. 18	281	1,144.7	773,987	177,114		2,75
27. Sampang		12	186	1,152.0	746,856	163,008	648	4,01
28. Pamekasan		13	189	732.9	667,881	153,591	911	3,53
29. Sumenep		25	332	1,857.6	960,301	275,911	517	2,89
(Municipality)		:		1			•	•
30. Kediri	ditto	3	46	63.4	260,575	61,408	4,110	5,66
31, Blitar		3	20	32.4	122,090	29,464	3,772	6,10
32. Malang	1 -	. 5	57	. 118.6	762,150	194,622	6,428	13,37
33. Probolinggo		3	29	56.7	189,250	44,837	• -	6,52
34. Pasuruan	-	3	34	35.3	162,825	1		4,78
35. Mojokeno	,,	2	18	16.5			6,455	5,90
* - *	,,	3	27	54.8	171,532	•	:	6,35
36. Madiun	. n	28	163	274.1	2,694,554		. 1	16,53
37. Surabaya Total		609	8,400	47,922.0	33,844,002	8,648,081	706	4,02

Source: Jawa Timur Dafam Angka 1995 (East Java in Figure 1995), Statistical Office of East Java and Results of the 1995 Intercensal Population Survey, Series: S2.13, Central Bureau of Statistics, Indonesia

Table F-2-4 Basic Data on the Administrative Division and Socio-economy in South Sulawesi

Districts (Kabupaten)/ Municipalities (Kodya)	Capitals	No. of Sub-Districts	No. of Villages	Area (km²)	Population (1995)	No. of Households	Pop. Density (Pers /km²)	Population per Village
(Kabupaten)								
1. Selayar	Benteng	5	38	903.4	99,769	25,616	110	2,626
2. Bulukumba	Bołukumba	7	122	1,154.7	352,815	79,344	306	2,892
3. Bantaeng	Bantaeng	3	42	395.8	159,736	33,789	404	3,803
4. Jeneponto	Jeneponto	5	Ш	749.8	316,506	63,546	422	2,851
S. Takalar	Takalar	6	73	572.6	223,340	61,386	390	3,059
6. Gowa	Sungguminasa	9	130	1,883.3	469,310	102,912	249	3,610
7. Sinjai	Sinjai	7	68	820.0	205,869	42,349	251	3,027
8. Maros	Maros	7	101	1,619.1	259,638	53,610	160	2,571
9. Pangkep	Pangkajene	9	97	1,112.3	259,012	54,296	233	2,670
10. Barru	Barru	5	54	1,174.7	152,957	35,579	130	2,833
11. Bone	Watampone	23	372	4,559.0	613,819	133,200	135	1,650
12. Soppeng	Watansoppeng	6	66	1,500.0	228,846	54,089	153	3,461
13. Wajo	Sengkang	to	176	2,506 2	364,155	85,740	145	2,069
14. Sidrap	Sidenreng	7	86	1,883.3	244,662	54,726	130	2,84
15. Pinrang	Pinrang	8	103	1,961.8	312,185	69,583	159	3,03
16. Enrekang	Enrekang	5	54	1,786.0	153,483	32,889	86	2,84
17. Luwu	Рајоро	21	428	17,791.4	794,526	162,179	45	1,85
18. Tana Toraja	Makale	9	116	3,205.8	377,938	81,791	118	3,25
19. Polmas	Polewali	9	173	4,781.5	420,719	91,670	88	2,43
20. Majene	Majene	4	35	947.8	114,596	24,112	121	3,27
21. Mamuju	Mamuju	6	117	11,057.8	237,789	50,272	22	2,03
(Municipality)								
22. Ujung Pandang	Ujung Pandang	11	142	175.8	1,086,121	219,456	6,179	7,64
23. Parepare	Parepare	3	21	99.3	110,577	23,008	1,113	5,26
Total		185	2,725	62,641	7,558,368	1,635,142	121	2,77

Source: Sulawesi Selatan Dalam Angka, South Sulawesi in Figure 1995, Statistical Office of South Sulawesi and Results of the 1995 Intercensal Population Survey, Series: S2 24, Central Bureau of Statistics, Indonesia

Table F.2.5 Population Data in the Study Area

		-										
Province	Area (km²)	Popul	Population (1,009)		Population Annual Density in 1996 Growth Rate	Annual Growth Rate	No. of Households	Average Household	Working Population		Migrant Status in 1995	\$ 10 l995
		0661	1996	(%)	(Persons /km²) 1990-96 (%)	1990-96 (%)	(%) \$661	метрег ('96)	Member ('96) No. in 1996: (%)	**(%) 9661	Migrant (%)	(%)
- North Sumatra	787.07	282.01 787.07	305,11	(5.70)	160	(£).	2,346,000 (5.14)	%. %.	4,607,166 (5,38)	2,506,947 (2,93)	1,025,451 (9.07)	(9.07)
- West Java	46,300	46,300 38,382	40,118	(20.23)	99x	(2.12)	9,453,000 (20.71)	4.2	15,176,561- (17,71)) 4,672,419 (5.45)	1,891,615 (4,72)	(4.72)
- East Java	47,921	47,921 32,48N	34,124 (17,20)	(17,20)	712	(0.82)	8,648,000: (18,94)	3.9	16,414,278; (19.15)	1,024,431 (8.20)	2.879,389 (8.44)	8. 3.
- South Sulawesi	72,781	6,980	7,693	(3.88)	8	(1.63)	1,635,000 (3.58)	4.7	3,031,873 (3.54)) 1,751,904: (2,04)	792.342 (10.30)	(10.30)
Study Area (% to Total)	237,789 85,102 (12,39) (47,48)	237,789 85,102 (12,39) (47,48)	93,241 (47.01) (47.01)	(47.01)	392 (388.24)	(1.53)	22,082,000 (48,37)	4,2	39,229,878 (45.77) (45.77)	(42.30)	6.588,797 (7.07) (36.74)	(7.07)
Indonesia	1,919,317	1) 545,861 845,961 715,919,	198,343 ((100:00)	101	(1.70)	45,653,000 (100.00)	4.3	85,701,813 (100.0	85,701,813 (100.00) 37,720,251 (44.01)	17,935,599 (9.04)	(9.04)
								i.				

Note: * Population aged 10 years and over who are working in Primary Sector including Agriculture, Forestry, Hunting and Fishery.

** % to the total working population.

** % to the national total population in 1996.

Source: Statistical Year Book of Indonesia, 1995 & 1996.

Table F-2-6 Land Utilized for Agricultural Development, 1995

	3		West Jays		Fort Lava		South Sulawesi	awesi	Study Area		Indonesia (by Category)	Category)
Doctorios ((Pd)	(%)	(ed)	(%)	(ha)	(§	(pq)	(§)	(ha)	(%)	(ha)	(%)
House compounds and	309,186	(7.36)	466,015	(13.83)	587,984	(18.38)	167,517	(5.50)	1.530.702	(11.08)	228,881,8	(8.91)
Surroundings		(0.0)		(9.6)		(11.4)	٠	(3.2)		(29.2)		(100m)
Dryland & garden for	502,299	(15.78)	997,590	(29.60)	1,164,452	(36.40)	662,960 (21.79)	(21.79)	3,483,207	(25.25)	11,368,507	(19.65)
crop cultivation		(5,4)	•	(8.8)		(182)	!	(5.8)	:	(30.7)		(100.0)
Grass land	197,953	(4.71)	38.619	(1.15)	2,872	(0.09)	285.569	(9.38)	\$25,013	(3.80) (27.8)	668'688'	(3.27)
Dyke (Brackish fishery)	639'6	(0.23)	35,212	(5.8)	\$1,914	(1.62)	107,298	(3.53)	204,077	(1,48)	422.564	(0.73)
Water pond (Inland fishery)	7.530	(0.18)	30,853	(0.92)	2.012	(0.06)	12,858	(0.42)	53,253	(0.39)	182.156	(0.31)
Temporarily fallow land	400.084	(9,52)	686'08	(1.51)	20,095	(6.63)	178.166	(5.85)	649,309	(4.70)	6.967.938	(12.04)
Wood land (% to Indonexia Total)	429,593	(10,22)	212,900	(6.32)	54,409	(1.70)	490,718 (16.13)	(16.13)	1,187,620	(8.60)	9,555,010	(16.51)
Agricultural estates	1,643,920	(39.13)	385,057	(11.43)	167,498	(5.24)	(3.5)	(16.67)	2,703,692	(19.57)	13,835,746	(23.91)
Wetland (Paddy field)	\$40,576	(12.87)	1,152,753	(34.21)	1,147,539	(35.87)	630,798	(20.73)	3,471,666	(25.13)	8,484,687	(14.66)
Total Agricultural Land	4,201.705	(100.001)	3,369,958	(100.00)	3,198,775: (100,00)	(100,00)	3,043,101. (100.00)	(100.00)	13,813,539	(100.00)	57.861,429 (100.00)	(100.00)
% to Total Land Area	,	(58.6)		(78.1)	•	(66.7)	•	(48.7)	,	(61.3)	•	(6:63)
												l

Source: Statistical Year Book of Indonesia, 1995 & 1996.

Table F-2-7 Average per Capita Monthly Expenditure by Commodity Group, 1996

High - Regish

					(Unit : Rupiah)	
	Urban		Rural		Urban + R	ural
Commodity Group	Per Capita Average	(%)	Per Capita Average	(%)	Per Capita Average	(%)
1. Cereales	8,526	(17.66)	9,197	(27.58)	8,955	(23.12)
2. Tobers	418	(0.87)	503	(1.51)	472	(1.22)
3. Fish	4,058	(8.41)	2,949	(8.84)	3,348	(8.65)
4. Meat	3,727	(7.72)	1,442	(4.32)	2,265	(5.85)
5. Eggs and milk	3,223	(6.68)	1,422	(4.26)	2,070	(5.35)
6. Vegetables	4,104	(8.50)	3,112	(9.33)	3,469	(8.96)
7. Legumes	1,683	(3.49)	1,174	(3.52)	1,358	(3.51)
8. Fruits Philipper of the	3,000	(6.21)	1,469	(4.41)	2,021	(5.22
9. Oil and fats	1,857	(3.85)	1,578	(4.73)	1,679	(4.34
10. Beverage stuffs	2,327	(4.82)	1,963	(5.89)	2,094	(5.41
II. Spices	1,160	(2.40)	887	(2.66)	985	(2.54
12. Miscellaneous food Items	1,430	(2.96)	603	(1.81)	901	(2.33
13. Prepared food and berverages	9,250	(19.16)	4,081	(12.24)	5,943	(15.35
14. Alcoholic betverages	67	(0.14)	46	(0.14)	54	(0.14
15. Tobacco and Betel	3,450	(7.15)	2,919	(8.75)	3,110	(8.03
Total	48,278	(100.00)	33,345	(100.00)	38,725	(100.00

Source: Expenditure for Consumption of Indonesia 1996, National Socio-Economic Survey, Biro Pusat Statistik (BPS).

Table F-2-8 Monthly per Capita Expenditure of the Fruits in Rural Area, 1996

	Table F-2-0		tung ber	months are a second					(Unit : kilogram)	m)
Monthly per Capita Expenditure Class (Rp.)	Durian	Mango	Avocado	Duku (Lanzon)	Salak (Salacia)	Rambutan	Ambon Banana	Raja Banana	Other Banana	Canned Fruit
Less than 15.000	,	0.00		•			0.002	0.004	160.0	• !
15,000 - 19,999	ı	0,016	0.000	0.000	0.003	0.002	0.015	0.008	0.063	
- 20,000 - 29,999	0.001	0.018	0.002	00000	0.005	0.007	0.025	0.024	0.072	
- 30,000 - 39,999	0.002	0.024	0.002	0000	0.011	0.016	0.040	0.030	0.087	•
. 40,000 - 59,999	600:0	0.038	0.003	0.001	0.021	0.035	0.057	0.039	0.108	
60,000 - 79,999	910:0	0.054	0.004	0.003	0.032	0.057	0.071	0.044	0.147	0.000
666'66 - 000'08 -	610'0	0.075	0.007	0.004	0.046	0.088	0.094	0.051	0.143	0.000
- 100,000 - 149,999	0.035	0,091	0.007	0.007	0.055	0.122	0.107	0.055	0.141	0.00
150,000 - 199,999	0.055	0.099	0.014	800.0	0.076	0.201	0.168	0.052	0.128	
- 200,000 - 299,999	0.061	0.120	0.021	0.003	0.058	0.171	0.134	0.064	0.115	•
- 300,000 and Over	0.137	0.057	0.045	0.016	0.088	0.251	0.101	0.108	0.113	0.003
Per Capita Average Rural Area (Urban Area)	0.010	0.039	0.003	0.002	0.021	0.039	0.055	0.037	0.106	00:000)
=										

Source: Expenditure for Consumption of Indonesia, National Socio-Economic Survey 1996, Biro Pusat Statistik (BPS).

Table F-2-9 Per Capita Food Consumption, 1994-1995

			!	ļ	ž	r Capital	Per Capita Consumption				Fore	
Commodity	Kg / Ye		Grams / Day	Day	:	Calone / Day	/ Day		Grams / Day	Day Cook	Grams / Day	Day 905
6.00		\$661	1994	1995	994	(g.)	S 661	(R)	3	0661	2,21	
. Connelle			•	,	1.757	(63.6)	1,947	(63.2)	35.86	39.69	6.16 0.45	47.0 47.0
- White flour	12.50	14.60	34.28	40.01	125.		\$;		5,03	4 % 5 7 %	2.62	282
- Unhusked rice / Rice	136.86	142.13	374.97	416.81	000		1000		7.27	7.75	30%	3.29
· Maixe	.42.06	1	40.70	3 ,			;		0.04	8	10.0	0.01
- Oners							•			3	45.0	0.49
Crarchy food	•	•	•	•	178	₹9	193	(°.9	157	7/1	41.0	910
	8.54	69.6	23.39	26.54	% ;		SC 0		6 c	; ; ;	05.0	0.33
- Cassava	48.57	\$2.76	133.07	<u>4</u>	6 †		ķ r		100	, o	00.0	
- Others	•	·	•	1	,		•	!		- 7	614	41.0
Sugar.	•		•	•	621	(4.7)	176	6.3	3 0	3	* * * * * * * * * * * * * * * * * * * *	
		;	•	•	289	(30.5)	236	6.5	14,86	14.90	3. 3.	17.19
4. Paises, nuts and oil seed	143	9	\$2.50 50	96.01	77		8	-	2.37	2.77	4. 7 (40.4 7
Company (Specifical)	0	0	26.65	30.17	66		8		10,46	10.53	\$.	8 8
 Sogatocans Cocont in busk / Fresh cocont 	13.80	13.88	37.80	38.03	136		ር: :		O	0.00	18	000
- Others	-	-,-	•	•	12		<u>‡</u>		5			4
	•	•	-•	•	4	(T)	3 ,	(1.8)	0.43	9.0	0.10	3 6
5. Fruits - Avocado (Alcarkat)	.5\$**0	0.75	1.22	2.05	1		-		10.0	0.0	200	2 6
· Orange (Juruk)	1.35	38	3.71	8.12			N F		1000	0.02	000	Š
- Lanzon Duku langsat)	<u> </u>	1.18	0.78	3 5	-		4		0.01	0.02	0.01	0.0
- Duchan	18.0	7 2	4.1	2 %	• (1)		, , , (0.02	0.02	0.01	0.0
- Waterapple (Jambu)	2.17	33	5.93	9.23	14		6		0.02	3 5	10.0	0 0
Pincapole (Names)	2,17;	2.66	5.93	7.30	~		กัก		0.0	0.0	38	8 8
- Papaya (Pepaya)	1.8	2 2	3.5	38.92	3 8		* %		0.03	0.39	0.05	0.06
- Banana (Prang)	131	69.1	3,5	4.62	-		H		0.01	0.03	88	3 3 5 6
- Salacia (Salak)	1.65	3.77	4.51	10.32	~ ,		4 -		000	700	0.0	000
· Sapodilla (Sawo)	0.33	Q 4	16.0 0	1.19	C		- F		8.0	0.01	000	3
· Others	7	20.0	0.00	•	` 5	(1.1)	5	0.0	1.37	1.65	0.31	0.4
6. Vegetables	, t	- 00	• =	. Q	્રું લ]	4	Ì	0.12	0.29	0.01	0.0
Beans	3.64	107	626	11.16	~		 ∞		0.16	0.19	0.01	0.6
· Potatoes · Cabbase	\$95	87.9	15.48	17.75	٠, ٠		es è		9.70	6. 6	0.02	000
- Chilli	3.65	27.	0.00	5,13	5 0		Ž 70		0.53	650	0.07	Ö
- Others	•	•	•	•	Ţ	7 37	, 86	12.5		Ş	2.83	2.02
7. Meat		•	•	,	š.	()	ş.	1			į	6
8. E25		•	•	•	11	(0 .6)	13	₹0)	0.8	3	6.73	X
N. Wilk	•	•	•	•	80	(°C)	11	(0.4)	0.41	0.61	7	0.67
7. Fireh	•	•	•	•	33	(1.2)	37	(1.2)	6.12	82.9	0.76	0.83
11 Alle R. Cape	. 1	1	•	•	252	(9.1)	343	(11.1)	\$0.0	0.09	28.10	28.33
II. Old to late	1				2.754	100	3.087	0.00	80.5%	69.75	62.73	69.04
	_		•	_	į		7.00	3				

Source: Statistical Year Book of Indonesia, 1995.

Table F-2-10 General Socio-Economic Data of the Study Provinces

o.	Major Hems / Study Area	(Unit)	North Sumatr.	West Java	Fast Java	South Sulawesi	Study Area	Indonesia
۱.	Administration (1995) 1.1 No. of Districts (Kabupaten) 1.2 No. of Municipalities (Kotamadya)	(no.) (no.)	11 6	20	29 8	21 2	81 21	247 63
	Provincial Capital	1	Medan	Bandung 529	Surabaya 615	Ujung Pandang 183	1,581	Jakarta 4,022
	1.3 No. of Sub-districts (Kecamatan) 1.4 No. of Villages (Desa)	(no.)	252 5,242	7,166	8,426	2,878	23,712	66,158
	Natural Conditions 2.1 Land Area (1996)	(km2)	70,787	46,300	47,921	72,781 (3.79)	237,789 (12.39)	1,919,317 (100 60)
	National Weight Physiographic Regions	(%) (kinds)	(3.69) • Western	(2.41) • Northern	(2.50) • Cental	• Cental	172 177	,
	2.2. anysingingane receives		foothills Barisan mountains Eastern plains	alluvial plains Northern footbills & plains	mountains * Eastern mountains & Karst	nvountains • Eastern • nountains • Karst		
			& faills • Fastern coastal swamp land	 Central volcanic mountains Southern dissected 	Southwestern plains & mountains Southeastern mountains &	Southwestern olains A neuntains Southeastern mountains		
				plateaus & plains	plains	plains		
	2.3 Mean Annual Rainfall (by Island)	(mm)	2,821 (Sumatra)	2,576 (Java)	2,576 (Java)	2,339 (Sulawesi)	-	
-	Agricultural Land (1995)	(bectare)	4,201,705	3,369,958	3,198,775	3,043,101	13,813,539	57,861,429
	Land for Agricultural Development House coumpouds & surroundings	(DCCLUC)	309,186	466,015	587,984	167,517	1.530,702	5,155,422 11,368,507
	- Dryland/gardens for crop culty ation		663,205 197,953	997,590	1,164,452 2,872	662,960 285,569	3,488,207 525,013	1,889,399
	Meadow Dyke (Brackish fishery)		9,653	35,212	51,914		204,077	422,564 182,156
	Water pend (Inland fishery)		7,530 400,089	30,853 50,959	2,012		53,253 649,309	6,967,938
	Temporarity fallow land Wood land		429,593	212,900	54,409	490,718	1,187,620	9,555,010
	- Agricultural estates		1,643,920	385,057	167,498 1,147,539		2,703,692 3,471,666	13,835,746 8,484,687
	Werland (Paddy field) Share to the Total Land Area	(%)	540,576 58.62	1,152,753 78.05	66.75		61 23	29.87
	. Population	/a	11,306,000	40,118,000	34,124,000	7,693,000	93,241,000	198,343,000
	4 1 Total Population (1996) National Weight	(persons) (%)	(5.70)	(20.23)	(17.20)	(3.88)	(47.01)	(100.00)
	4.2 Population Density (1996)	Coersons/km²	160	866	082		392	101
	4.3 Annual Growth Rate (1990-1996) 4.4 No. of Housebolds (1995)	(%) (no.)	1.64 2,346,000	9,453,000	8,648,000		22,082,060	45,653,000
	45 Average Household Member (1995)	(persons)	4.8	4.2	3.9		39,229,878	4.3 85,701,813
	4.6 Working Population (1996)	(persons)	4,607,166 250,947	15,176,561 4,672,419	16,414,278 7,024,431		15,955,701	37,720,251
	4.7 Workers in Primary Sector (1996) 4.8 Urban / Rural Distribution (1995)	(persons) (% / %)	41.1 - 58.9	42.7 - 57.3	32.1 - 67.9		37.4 - 62.6	35.9 - 64.1
	4.9 Growth Rates by Urban / Rural	(%)		460	4.00	4.86	5.33	4.77
	 Urban Pop.Growth Rate (1990-1995) Rural Pop.Growth Rate (1990-1995) 	:	4.65 -0.20	6.51 -0.61	-0.50			0.16
	5. Gross Domestic Product (GDP) 5.1 GRDP (at Current Prices in 1995)	(billion Rg.)	24,686,430	73,333,011	66.212.56	10,294,163	174,526,172	454,514,100
	* National Weight	(%)	(5.40)	(16.10)	(14.60)	(2.30)	(38.40)	(100.00) 2,345,879
	5.2 Per Capita GRDP in 1995	(Ro.)	2,231,401	1,882,791	1,961,15	1,368,896	1,911,686	2,343,619
į	6. Socio-Economy 6.1 Landholding Farm Household (93)	(60.)	1,017,915	3,172,219	3,813,76	3 860.758	8,864,655	19,713,800
	6.2 Horticulture Household (1993)	(50.)	191,452	768,712	849,06	8 191,273		(100.00)
	 National Weight 6.3 Population below Poverty Une ('96) 	(%) (persons)	(4.00) 1,234,184	(16.00) 3,962,111			(43.80) 9,859,955	22,500,00
	 National Weight 	(%)	(5.50)	(17.69)	(18 00)	(2.70)		(100.00)
	6.4 Daily Per Capita Consumption (1996)	(calorie)	2,046	2,119	1,85	0 2,115	1,985	2,01
	7. Road Condition 7.1 Road Length (1995)	(km)	29,924	27,396	32,01			
	 National Weight 	(%)	(8.00)					(100.00,
	7.2 Road Density (1995) 7.3 Road Rario per 1,000 persons (1995)	(ini)	417					
	Agricultural Production Food Crops Production in 1995 (paddy, maize, cassavva, potato, peanuts and soyabean)	(1,000 tons	4.078.	13,457.6	6 15,647	.2 5,323.	6 38,506.9	78,042
	8 2 Fruit Production (1994-96 Average)	(ton)	ŀ	.]	_			
	- Dorian		37,59 5,69			35 10,11 55 57,90		
	- Mango - Avocado	!	5,68 3,17		4 36,4	26 11,12	0 116,762	154,20
	 Lanzon (Duku / Langsat) 		2,92	0 13,06	0 5.4	29 14,03		
	- Salacia (Salak) - Rambutan	•	95,39 9,96					
	- Ramburan - Banana	:	119,62					

Source: This summary table is prepared based on on the key data attached in this Report

Table F-3-1 Number of Horticulture Farm-Households in North Sumatra, 1983&1993

	198	3	199	3	Growth Ratio
District / Municipality	Total	(%)	Total	(%)	(1983=100)
1. Nias	19,504	(7.64)	41,665	(17.43)	113.62
2. Tapanuli Selatan	26,527	(10.39)	29,513	(12.34)	11.26
3. Tapanuli Tengah	3,303	(1.29)	5,424	(2.27)	64.21
4. Tapanuli Utara	41,059	(16.09)	31,126	(13.02)	-24.19
5. Labuan Batu	17,444	(6.84)	8,698	(3.64)	-50.14
6. Asahan	17,434	(6.83)	7,999	(3.35)	-54.12
7. Simalungun	35,448	(13.89)	16,110	(6.74)	-54.55
8. Dairi	6,681	(2.62)	11,409	(4.77)	70.77
9. Karo	14,693	(5.76)	22,988	(9.61)	56.46
10. Deli Serdang	45,207	(17.71)	36,804	(15.39)	-18.59
11. Langkat	21,142	(8.28)	22,737	(9.51)	7.54
12. Sibolga	80	(0.03)	41	(0.02)	-48.75
13. Tanjung Balai	182	(0.07)	345	(0.14)	89.56
14. Pematang Siantar	329	(0.13)	103	(0.04)	-68.69
15. Tebing Tinggi	868	(0.34)	1,118	(0.47)	28.80
16. Medan	4,668	(1.83)	1,778	(0.74)	-61.91
17. Binjai	638	(0.25)	1,231	(0.51)	92.95
Total	255,207	(100.00)	239,089	(100.00)	-6.32

Source: Biro Pusat Statistik Jakarta, Sensus Pertanian 1993, Seri H.2 North Sumatera, 1993.

Table F-3-2 Number of Horticulture Farm-Households in West Java, 1983&1993

	198	3	199	3	Growth Ratio
District / Municipality	Total	(%)	Total	(%)	(1983=100)
1. Pandeglang	55,803	(3.92)	37,522	(4.44)	-32.76
2. Lebak	80,550	(5.66)	36,855	(4.36)	-54.25
3, Bogor	128,997	(9.07)	69,612	(8.23)	-46.04
4. Sukabumi	90,113	(6.34)	64,950	(7.68)	-27.92
5. Cianjur	107,593	(7.57)	50,197	(5.93)	-53.35
6. Bandung	99,861	(7.02)	63,876	(7.55)	-36.04
7. Garut	111,767	(7.86)	66,712	(7.89)	-40.31
8. Tasikmalaya	93,875	(6.60)	54,361	(6.43)	-42.09
9. Ciamis	133,385	(9.38)	57,866	(6.84)	-56.62
10. Kuningan	59,761	(4.20)	24,897	(2.94)	-58.34
11. Cirebon	28,170	(1.98)	21,347	(2.52)	-24.22
12. Majalengka	68,248	(4.80)	35,607	(4.21)	-47.83
13. Sumedang	66,817	(4.70)	40,090	(4.74)	-40.00
14. Indramayu	31,541	(2.22)	32,390	(3.83)	2.69
15. Subang	60,308	(4.24)	38,541	(4.56)	-36.09
16. Purwakarta	26,201	(1.84)	14,367	(1.70)	-45.17
17. Karawang	38,716	(2.72)	20,979	(2.48)	-45.81
18. Bekasi	55,663	(3.91)	34,931	(4.13)	-37.25
19. Tangerang	31,958	(2.25)	25,061	(2.96)	-21.58
20. Scrang	48,130	(3.38)	52,202	(6.17)	8.46
21. Kodya Bogor	301	(0.02)	451	(0.05)	49.83
22. Kodya Sukabumi	571	(0.04)	161	(0.02)	-71.80
23. Kodya Bandung	2,234	(0.16)	2,405	(0.28)	7.65
24. Kodya Cirebon	1,369	(0.10)	559	(0.07)	-59.17
25. Kodya Tangerang	0	(0.00)	0	(0.00)	_
Total	1,421,932	(100.00)	845,939	(100.00)	-40.51

Source: Biro Pusat Statistik Jakarta, Sensus Pertanian 1993, West Java Province.

Table F-3-3 Number of Horticulture Farm-Households in East Java, 1993

		1993		% of Hort. Farmers
	Total	No. of Horti-		to Total Farm
District / Municipality	Farm Households	culture Farmers	(%)	Households
I. Pacitan	115,311	35,055	(4.29)	30.40
2. Ponorogo	152,556	26,896	(3.30)	17.63
3. Trenggalek	117,985	8,920	(1.09)	7.56
4. Tulungagung	121,884	14,553	(1.78)	11.94
5. Blitar	154,511	33,637	(4.12)	21.77
6. Kediri	149,958	43,788	(5.36)	29.20
7. Malang	277,539	75,768	(9.28)	27.30
8. Lumajang	128,832	35,854	(4.39)	27.83
9. Jember	234,144	37,159	(4.55)	15.87
10. Banyuwangi	165,759	30,500	(3.74)	18.40
11. Bondowoso	121,252	19,667	(2.41)	16.22
12. Situbondo	89,463	17,365	(2.13)	19.41
13. Probolinggo	155,007	47,866	(5.86)	30.88
14. Pasuruan	157,823	39,992	(4.90)	25.34
15. Sidoarjo	55,102	8,447	(1.03)	15.33
16. Mojokerto	90,245	20,034	(2.45)	22.20
17. Jombang	98,431	12,294	(1.51)	12.49
18. Nganjuk	123,278	30,856	(3.78)	25.03
19. Madiun	94,114	13,656	(1.67)	14.51
20. Magetan	98,383	23,258	(2.85)	23.64
21. Ngawi	138,052	10,409	(1.28)	7.54
22. Bojonegoro	189,249	26,627	(3.26)	14.07
23. Tuban	157,087	45,744	(5.60)	29.12
24. Lamongan	178,579	20,287	(2.49)	11.36
25. Gresik	94,069	20,215	(2.48)	21.49
26. Bangkalan	120,740	32,141	(3.94)	26.62
27. Sampang	131,187	33,479	(4.10)	25.52
28. Pamekasan	109,813	19,195	(2.35)	17.48
29. Sumenep	221,349	32,538	(3.99)	14.70
Total	4,041,702	816,200	(100.00)	20.19

Source: Biro Pusat Statistik Jakarta, Sensus Pertanian 1993, Seri H.13, East Java, 1993.

Table F-3-4 Number of Horticulture Farm-Households in South Sulawesi, 1993

		1993		% of Hort. Farmers
	Total	No. of Horti-		to Total Farm
District / Municipality	Farm Households	culture Farmers	(%)	Households
1. Selayar	16,443	3,496	(1.75)	21.26
2. Bulukumba	54,898	16,516	(8.26)	30.08
3. Bantaeng	22,095	8,130	(4.07)	36.80
4. Jeneponto	48,427	14,884	(7.45)	30.73
5. Takalar	25,657	7,429	(3.72)	28.96
6. Gowa	63,638	21,702	(10.86)	34.10
7. Sinjai	28,471	7,775	(3.89)	27.31
8. Maros	33,893	6,381	(3.19)	18.83
9. Pangkep	28,807	3,088	(1.54)	10.72
10, Barru	17,153	3,112	(1.56)	18.14
11. Bone	94,972	18,296	(9.15)	19.26
12. Soppeng	35,295	6,707	(3.36)	19.00
13. Wajo	53,889	13,932	(6.97)	25.85
14. Sidrap	30,366	6,833	(3.42)	22.50
15. Pinrang	38,531	7,194	(3.60)	18.67
16. Enrekang	23,169	8,719	(4.36)	37.63
17. Luwu	108,882	20,972	(10.49)	19.26
18. Tator	62,467	2,770	(1.39)	4.43
19. Polmas	58,237	10,378	(5.19)	17.82
20. Majene	14,958	3,164	(1.58)	21.15
21, Mamuju	32,017	5,836	(2.92)	18.23
22. Ujung Pandang	7,120	1,812	(0.91)	25.45
23. Pare-Pare	2,532	757	(0.38)	29.90
Total	901,917	199,883	(100.00)	22.16

Source: Biro Pusat Statistik Jakarta, Sensus Pertanian 1993, South Sulawesi Province.

Table F-3-5 Number and Percentage of Population below the Poverty Line, 1993 & 1996

Province No. of Population Below Poverty Line (Rp./Cap./Month) No. of Population Below Poverty Line (Rp./Cap./Month) No. of Population Below Poverty Line (Rp./Cap./Month) No. of Population Below Poverty Line 1993 (%) 1996 (%) 1996 (%) 1996 (%) 1996 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1997 (%) 1977,157 (%) 1997 (%			Urban Area	ren					Rural Arca	şsi				Urb	Urban and Rural Area	Area	
ntra 494,479 (5.7) 1996 (%) 1993 1996 1993 (%) 2,327,139 (5.7) 457,037 (6.3) 26.822 40,356 837,152 (4.9) 1,704,433 (19.6) 1,879,653 (26.1) 30,559 41,688 2,2285,213 (13.3) wesi 2,327,162 (3.0) 241,230 (21.1) 26,680 36,452 2,719,276 (15.8) a 4,783,213 (55.0) 4,098,822 (56.9) - - 6,243,631 (36.3)	, o	# Population	Below Pover	v Line	Povert (Rp./Cap	y Linc /Month)	No. of Pop.	lation Be	elow Poverty L	jn.	Poverty Line (Rp./Cap/Month)	/ Line /Month)	No. of Pop	Jation B	No. of Population Below Poverty Line	Line	% to the Total
atra 494,479 (5.7) 457,037 (6.3) 26,822 40,356 837,152 (4.9) 2,327,139 (26.7) 1,879,653 (26.1) 30,559 41,688 2,285,213 (13.3) 1,704,433 (19,6) 1,520,902 (21.1) 26,680 36,452 2,719,276 (15.8) wesi 2,57,162 (3.0) 241,230 (3.4) 25,024 36,281 401,990 (2.3) a 4,783,213 (55.0) 4,098,822 (56.9) - - 6,243,631 (36.3)	Ĺ.	993 (%)	9661	(%)	1993	9661	£661	(%)	(%) 9661	(%)	1993	9661	1993	(%)	(%) 9661		Population ('96)
2,327,139 (26.7) 1,879,653 (26.1) 30,559 41,688 2,285,213 (13.3) 1,704,433 (19.6) 1,520,902 (21.1) 26,680 36,452 2,719,276 (15.8) 257,162 (3.0) 241,230 (3.4) 25,024 36,281 401,990 (2.3) a 4,783,213 (55.0) 4,098,822 (56.9) - 6,243,631 (36.3)		479 (5.7)	L	(6.3)	26.822	40,356	837,152	(4.9)	160,06 711,91 (5.1) 751,777	(5.1)	19,117		1,331,631	(5.1)	1,331,631 (5.1) 1,234,184 (5.5)	(5.5)	10.92
1,704,433 (19.6) 1,520,902 (21.1) 26,680 36,452 2,719,276 (15.8) west 257,162 (3.0) 241,230 (3.4) 25,024 36,281 401,990 (2.3) ca 4,783,213 (55.0) 4,098,822 (56.9) 6,243,631 (36.3)		139 (26.7)	1,879,653	(26.1)	30.559	41.688	2,285,213	(13.3)	2,082,458 (13.6) 20,497 30,356	(13.6)	20,497	30,356	4,612,352 (17.8)		3,962,111 (17.6)	(17.6)	9.88
257,162 (3.0) 241,230 (3.4) 25,024 36,281 401,990 (2.3) 4,783,213 (55,0) 4,098,822 (56,9) 6,243,631 (36,3)		433 (19.6)	1,520,902	(21.D)	26.680	36,452	2,719,276	(15.8)	2,525,627 (16.5) 16,924 25,519	(16.5)	16,924	25.519	4,423,709	(17.1)	4,423,709 (17.1) 4.046,529 (18.0)	(18.0)	11.86
4,783,213 (55.0) 4,098,822 (56.9) - 6.243,631 (36.3)	 	162 (3.0)		(3.4)	25.024	36,281	401,990	(2.3)	375,901 (2.5) 16,033 21,614	(2.5)	16,033	21,614	(5.5) 251,939	(2.5)	617,131	6.5	8.02
		213 (55.0)	4,098,822	(6'95)	,	,	6.243,631	(36.3)	5,761,143 (37.7)	(27.7)	1		11,026,844 (42.6)		9.859.955 (43.8)	(43.8)	10.57
Indonesia 8,700,000 (100.0) 7,200,000 (100.0) 27,905 38,246 17,200,000 (100.0)		(100.0)	7.200.000	(100.0)	27.905		17,200,000 (100.0)	15,300,000 (100.0) 18,244 ; 27,413 25,900,000 (100.0) 22,500,000 (100.0)	100:0)	18,244	27,413	25.900.000 ((0.001)	22,500,000 〈	100.0)	11.34

Source: Statistical Year Book of Indonesia 1996.

Table F-3-6 Less Developed Villages in the Study Area, 1994 (1/2)

<u> </u>		Village St	itus (Urban +	Porell					Village Status			
Kabupaten/	Less	mage St	Not Less	WOLUT	[Less	! '	Not Less	(Korai)	r	I
Kotamadya	Developed	(%)	Developed	(%)	Total	(%)	Developed	(%)	Developed	(%)	Total	(%)
(I) North Sumatra						415.61						
1) Nias	478 379	(34.7) (27.5)	1,150	(4.7)	1,529	(12.6)	478	(73.3)	174	(26.7)	652	(13.8)
Tapanuli Selatan Tapanuli Tengah	31	(2.3)	1,130	(2.9)	144	(29.4) (2.8)	377 30	(25.0) (21.4)	1,134 110	(75.0)	1,511	(32.1)
4) Tapanuli Utara	277	(20.1)	363	(9.5)	610	(123)	277	(41.6)	344	(78.6) (55.4)	140 621	(3.0) (13.2)
5) Labutan Batu	27	(2 0)	211	(5.5)	238	(4.6)	14	(6.8)	193	(93.2)	207	(4.4)
6) Asahan	12	{0.9}	234	(6.1)	246	(47)	3	(1.4)	205	(98.6)	208	(4.4)
7) Simalungun	9	(0.7)	198	(5.2)	207	(4.0)	. 5	(2.6)	189	(97.4)	194	(4.0)
8) Dairi	55	(10)	102	(2.7)	157	(3.0)	55	(35.3)	101	(64.7)	156	(3.3)
9) Karo 10) Deli Serdang	24 60	(1.7) (4.4)	234 574	(6.1) (15.0)	258 634	(5.0) (12.2)	24 46	(9.6)	225 496	(90.4)	249	(5.3)
11) Langkat	~~~	(0.7)	207	(5.4)	216	(4.1)	8	(3.9)	198	(91.5) (96.1)	542 206	(11.5) (4.4)
12) Sibolga	0	(0.0)	16	(0.4)	16	(0.3)		(***)	"-	100.17		(3.7)
13) Tanjung Balai	9	(0.7)	21	(0.5)	30	(0.6)	0	(0.0)	3	(100.0)	3	(0.1)
14) Kota Pematang Siantar	0.	(0.0)	38	(1.0)	38	(0.7)	0	(0.0)	6	(100.0)	6	(0.1)
15) Tebing Tinggi 16) Medan	0 6	(0.0) (0.4)	17 138	(0.4)	17 144	(0.3)	ò	100		(100.0)	ا نے ا	
17) Binjai	۱ ٥١	(0.4)	37	(1.0)	37	(2.8) (0.7)	ŏ	(0.0)	5 H	(100.0)	5 11	(0.1) (0.2)
Total	1,376	(100.0)	3,832	(100.0)	5,208	(100.0)	1,317	(28.0)	3,194	(72.0)	4,711	(1000)
(2) West Java					l 1					1.4.52	39733	(,
 Pandeglang 	172	(10.6)	163	(3.0)	335	(4.7)	170	(51.8)	158	(48.2)	328	(5.6)
2) Lebak	190	(11.7)	110	(2.0)	300	(4.3)	189	(64.5)	104	(35.5)	293	(6.2)
3) Begor 4) Sukabensi	90 65	(5.6) (4.0)	440 291	(8.0) (5.3)	530 356	(7.4) (5.0)	55 63	(16.5)	279	(83.5)	334	[[2.0]
5) Cianjur	108	(6.7)	205	(3.7)	313	(4.4)	104	(20.0)	252 185	(80.0) (64.0)	315 289	(6.7) (6.1)
6) Bandung	63	(3.9)	388	(7.0)	451	(6.3)	43	(12.8)	294	(87.2)	337	(7.2)
7) Garut	70	(4.3)	333	(6.0)	403	(5.7)	63	(17.5)	296	(82.5)	359	(35)
6) Tasikmalaya	57	(3.5)	355	(6.4)	412	(5.8)	46	(12.7)	317	(87.3)	363	(7.7)
9) Ciamis	40 56	(2.5)	318	(5.8)	358	(5.0)	39	(11.4)	304	(88.6)	343	(7.3)
10) Kuningan 11) Cirebon	123	(3.5) (62	313 301	(5.7) (5.5)	369 424	(5.2) (6.0)	53 50	(15.7)	284 235	(84.3)	337	(2.2)
12) Majalengka	27	(4.8)	251	(4.6)	328	(4.6)	68	(23.1)	233	(82.5) (76.9)	285 295	(6.0) (6.3)
13) Sumedang	49	(3.0)	220	(4.0)	269	(3.8)	48	(19.2)	202	(80.8)	250	(5.3)
14) Indramayu	101	(6.2)	209	(3.8)	310	(4.4)	90	(32.8)	184	(67.2)	274	(5.8)
15) Subang	37	(2.3)	213	(3.9)	250	(3.5)	35	(15.2)	195	(84.8)	230	(4.9)
16) Purwakarta 17) Karawang	29 66	(1.8) (4.1)	163 237	(3.0)	192 303	(2.7) (4.3)	28 64	(16.0)	147	(84.0)	175	(3.7)
18) Bekasi	23	(1.4)	214	(3.9)	237	(3.3)	18	(23.6) (10.3)	207 157	(76.4) (89.7)	271 175	(5.8)
19) Tanggerang	50	(3.1)	266	(4.8)	316	(4.4)	39	(15.7)	209	(84.3)	248	(3.7)
20) Serang	148	(9.1)	264	(4.8)	412	(5.8)	146	(38.6)	232	(61.4)	378	(8.0)
21) Bogor	0	(0.0)	22	(0.4)	22	(0.3)	-		-	1 :	-	` .
22) Sukabomi	0 3	(0.0)	15	(0.3)	15	(0.2)	:			i	-	
23) Bandung 24) Circbon	هٔ ا	(0.2)	132	(2.4)	135	(1.9)	0	(0.0)	5	(100.0)	5	(0.1)
25) Tangerang	Ĭž	(0.1)	60	(i.i)	62	(0.9)	ŏ	(0.0)	1 2	(100.0)	1 2	(0.0)
Total	1,619	(100.0)	5,505	(100.0)	7,124	(100.0)	1,411	(24.0)	4,476	(76.0)	5,887	(100.0)
(3) East Java	1											
1) Pacitan	46 114	(2.2)	118	(1.9)	164 303	(2.0)	46	(28.8)	114	(713)	160	(2.2)
2) Ponorogo 3) Trenggatek	40	(2.0)	117	(3.0)	157	(3.6)	102 40	(37.5) (26.5)	170	(62.5)	272	(3.8)
4) Tulungagung	59	(2.9)	212	(3.3)	271	(3.2)	40	(18.4)	111	(73.5)	151 217	(2.1)
5) Blitar	49	(2.4)	199	(3.1)	248	(3.0)	38	(17.5)	179	(82.5)	217	(3.0)
6) Kediri	60	(2 9)	284	(4.5)	344	(4.1)	49	(16.2)	254	(83.8)	303	(4.2)
7) Malang	70	(3.4)	338	(5.3)	408	(4.9)	62	(17.6)	291	(82.4)	353	(4.9)
8) Lumajang 9) Jember	51 21	(2.5)	148	(2.3)	199 233	(2.4)	47 20	(26.3) (9.8)	132	(73.7)	179	(2.5)
10) Banyuwangi	9	(0.4)	166	(2.6)	175	(2.1)	5	(3.6)	184 133	(90.2) (95.4)	204 138	(2.9)
11) Bondowoso	52	(2.5)	140	(2 2)	192	(2.3)	51	(28.3)	129	(71.7)	180	(2.5)
12) Situbondo	41	(2.0)	95	(1.5)	136	(1.6)	34	(30.4)	78	(69.6)	11/2	(1.6)
13) Probolinggo	107	(5.2)	223	(3.5)	330	(3.9)			204	(67.1)	304	(4.3)
14) Pasuruan 15) Sidoarjo	116 24	(5.7) (1.2)	249 329	(3.9)	365 353	(4.3)		(32.7)	212	(67.3)	315	(4.4)
I6) Mojokerto	47	(2.3)	257	(4.1)	304	(3.6)		(12.6)	235 222	(99.6)	236 254	(3.3)
17) Jombang	59	(2.9)	247	(3.9)	306	(3.6)	47	(18.3)	210	(81.7)	257	(3.6)
18) Nganjuk	98	(4.8)	179	(2.8)	277	(3.3)	85	(35.9)	152	(64.1)	237	(3.3)
19) Madiun	45	(2.2)	161	(2.5)	206	(2.5)		(21.2)	149	(78.8)	189	(2.7)
20) Magetan 21) Ngawi	18 54	(0.9)	217	(3.4)	235	(2.8)		(7.4)	201	(92.6)	217	(3.0)
21) Bejonegoro	150	(7.3)	161 280	(2.5) (4.4)	215 430	(2.6)		(25.1) (36.9)	155	(74.9)	207	(2.9)
23) Tuban	101	(4.9)	227	(3.6)	328	(3.9)		(30.4)	255 211	(63.1)	404 303	(5.7)
24) Lamongan	70	(3.4)	405	(6.4)	475	(3.7)		(14.6)	385	(85.4)	451	(6.3)
25) Gresik	43	(2.1)	314	(4.9)	357	(4.3)	34	(11.6)	258	(88.4)	292	(4.1)
26) Bangkalan	176	(8.6)	105	(1.7)	281	(3,3)		(64.5)	92	(35.5)	259	(3.6)
27) Sampang 28) Pamekasan	113 60	(5.5)	73 129	(1.2)	186	(2.2)			67	(38.3)	175	(2.5)
29) Sumenep	132	(6.4)	200	(3.2)	332	(2.3)		(32.6)	120	(67.4)	178	(2.5)
30) Kediri	7	(0.3)	39	(0.6)	45	(0.5)			184	(100.0)	312	(4,4)
31) Blitar	2	(0.1)	18	(0.3)	20	(0.2)			2	(100.0)	2	(0.0)
32). Malang	!	(0.0)	56	(0.9)	57	(0.7)	0	(0.0)	. 9	(100.0)	9	(0.1)
33) Probolingo	l i	(0.0)	28	(0.4)	29	(0.3)		(0.0)	13	(100.0)	13	(0.2)
34) Pasuruan 35) Mojokano	3	(0.1)	31	(0.5)	34	(0.4)		(14.3)	6	(85.7)	7	(0.1)
35) Mojekeno	3 2	(0.1)	15 25	(0.2)	18	(0.3)			!	(100.0)	1	(0.0)
36) Madion	4								2	(100.0)	2	(0.0)
		(0 2) (100.0)	159	(100.0)	163	(1.9)	0	(0.0)	18 5,319	(100.0)	18 7,132	(03)

Tabe F-3-6 Less Developed Villages in the Study Area, 1994 (2/2)

		Village St.	nus (Urban +	Rural)					/illage Status	(Rural)		
Kabupaten/ Kotamadya	Less Developed	(%)	Not Less Developed	(%)	Total	(%)	Less Developed	(%)	Not Less Developed	(%)	Total	(%)
(4) South Sulawesi												
1) Selayar	4	(0.5)	34	(1.8)	38	(1.4)	4	(11.0)	31	(83 6)	35	(1.5)
2) Bulukemba	28	(3.7)	86	(4.6)	114	(4.3)	25	(23.6)	81	(76.4)	106	(4.5)
3) Bantoeng	7	(0.9)	35	(1.9)	42	(1.6)	1 4	(10.8)	33	(89.2)	37	(1.6)
4) Jeneponto	47	(6.3)	64	(3.4)	111	(4 2)	45	(42.2)	63	(57.8)	109	(4.7)
5) Takalar	15	(2.0)	58	(3.1)	73	(2.8)	13	(19.7)	53	(80.3)	66	(28)
6) Gowa	33	(4.4)	97	(5.1)	130	(4.9)	28	(24.6)	86	(75.4)	114	(4.9)
7) Sinjai	7	(0.9)	61	(3.2)	68	(2.6)		(10.6)	59	(89.4)	66	(2.8)
B) Maros	33	(4.4)	68	(3.6)	101	(3.8)		(34.0)	62	(66.0)	94	(4.0)
Pangkajene Kepuauan	25	(3.3)	72	(3.8)	97	(3.7)		(26.9)	68	(73.1)	93	(4.0)
(0) Barru	13	(1.7)] 41	(2.2)	54	(20)	10	(21.3)	37	(78.7)	4?	(2.0)
11) Bone	86	(11.4)	286	(15.2)	372	((≰1)	86	(23.8)	275	(76 2)	361	(15.5)
12) Soppeng	1	(0.1)	65	(3.4)	66	(2.5)		(1.6)	61	(98.4)	62	(2.7)
13) Wajo	43	(5.7)	105	(5.6)	143	(5.6)	28	(22.4)	97	(77.6)	125	(5,4)
14) Sidenreng Rappung	1	(0.1)	65	(3.4)	66	(2.5)] 1	(1.7)	59	(93.3)	60	(2.6)
15) Pinrang	18	(2.4)	85	(4.5)	103	(3.9)		(18.4)	80	(81.6)	98	(4.2)
16) Enrekang	9	(1.2)	40	(2.1)	49	(1.9)		(19.1)	38	(80.9)	47	(2.0)
17) Lowa	194	(25.8)	219	(11.6)	413	(15.6)		(43.5)	206	(51.5)	400	(17.0)
18) Tana Toraja	32	(4.3)	81	(4.3)	113	(4.3)	31	(29.0)	76	(71.0)	107	(4.6)
19) Polewali Mamasa	96	(12.8)	73	(3.9)	169	(6,4)		(57.2)	65	(42.8)	152	(6.5
20) Majene	10	(1.3)	25	(1.3)	35	(1.3)		(32.3)	21	(67.7)	31	(1.3
21) Mamuju	37	(4.9)	177	(4.1)	114	(4.3)		(32.1)	76	(67.9)	112	(4.8
22) Ujung Pandang	11	(1.5)	131	(6.9)	142	(5.4)		(50.0)	3	(50.0)	6	(0.3
23) Pare-Pare	2	(0.3)	19	(1.0)	21	(0.8)	1	(200)	1 4	(80.0)	5	(0.2
Total	752	(100.0)	1,887	(100.0)	2,639	(100.0)	699	(30.0)	1,634	(70.0)	2,333	(100.0

Source : Ringkasan Desa Tertinggal 1994, Sumatera Utura, Jawa Barat, Jawa Timur and Sulawesi Selatan, Biro Pusat Statistik (BPS)

Table F-3-7 Number of Food Crops Households, Controlled Land and Average Land Size, 1983 & 1993

		1983 Ag	Agricultural Census				1993 Agr	1993 Agricultural Census		
Controlled Land Size	Number of Food Crops Household	(%)	Controlled Land Area (ha)	(%)	Average Size of Land (ha)	Number of Food Crops Household	(%)	Controlled Land Area (ha)	(%)	Average Size of Land (ha)
 0.10 0.10 0.20 0.20 0.49 0.50 0.75 0.99 1.00 1.99 2.00 2.99 3.00 2.99 3.00 3.99 4.00 4.99 5.00 7.50 9.99 10.00 14.99 2.00 Not Reported 	179,974 1,751,539 4,563,552 2,614,275 1,372,601 3,166,465 1,202,733 467,247 225,926 240,025 60,619 51,446 31,038	(1.1.) (1.1.0) (1.8.9) (1.8.9) (1.8.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9) (1.9.9)	14,967.1 247,378.0 1,448,005.3 1,513,236.1 1,133,576.5 4,070,805.1 2,689,203.9 1,510,595.8 953,155.5 1,376,935.7 508,304.1 580,795.2 642,494.0	(6.8) (7.5) (7.5) (7.6) (7.6) (7.7) (8.3) (3.0) (3.0) (3.0)	0.08 0.14 0.32 0.58 0.83 1.29 4.22 4.22 5.74 8.39 11.29	1,081,006 2,294,537 5,350,891 2,767,251 1,363,020 2,991,747 1,293,272 423,631 161,122 36,968 19,630 11,487	6.55 6.56 6.56 6.56 6.56 6.56 6.56 6.56	66.327.2 329.398.2- 1.703.695.2 1.615.178.0 1.134.764.9 3.859.118.7 2.871.133.0 1.370.469.6 778.347.5 922.771.1 309.557.3 225.149.5 255.149.5	6.69 6.69	0.06 0.14 0.32 0.83 0.83 0.83 1.29 8.37 22.17
Total	15.927,440 (100.0)	(100:0)	16,689,452.4 (100.0)	(100.0)	1.05	17,978,451	(100.0)	15,440,620.7 (100.0)	(100.0)	0.86

Source: Land Holding Farmers Sample Census (1993 Agricultural Census), Biro Pusat Statistik (BPS)

Table F-3-8 Socio-Cultural & Gender Indicators of the Study Area, 1995

No.	Major Items / Study Area	(Unit)	North Sumatra	West Java	Fast Java	South Sulawesi	Indonesia
1.	Labor Force Participation Ratios	(%)					
	Urban Female		40.14	37.25	43.47	34 37	42.35
	• Male		77.61	79.51	80 03	72 89	78 58
	Refal Female		66.21	43.05	57 26	36.09	54.81
	• Male		85.68	88 09	90.04	87.17	88.78
	- Urban + Rural	1	55.00	40.56	54.41	35.59	50 24
	Female Male		82 26	84.40	86.84	83.02	85.04
	Hiterate Population (10 years old and over) - Urban	(%)					
	Female Male		4.51 1.38	8.50 3.56	15.80 5.45	11.70 6.60	10.41 3.82
	- Roral - Female		9.55	18.39	34 90	26.28	23 25
	• Bala		3.85	8.73	1681	19.36	11.52
	- Urban + Rural]	7.43	1120	28.74	22 20	18 60
	• Female • Male		2.83	6.52	13.19	15.76	8.74
3.	Life Expectancy	(years)	66.42	62.59	66.42	65.75	65.31
	- Female - Male		83.00	58.93	62.60	61.95	61.54
	- Total		61 56	60 81	61.56	63.90	63.43
4.	Infant Mortality Rate (IMR) - Female	់ ទេរ	41	60	41	47	49
	- Male		57	74	57	59	61
	- Total		50	66	50	53	55
	Well Nourished Population (5 years old and over) - Urban	· (%)					
	• Female • Male		68.34 59.62	74.57 67.67	75.95 65.93	70.08 60.96	72 30 65 33
	- Rurat - Female - Male		63.86 59.72	66.34 61.22	64.07 60.07	6£86 54.42	64.07 58.89
	- Urban + Rural					•	1
	• Female • Male	:	65 57 59 68	69.46 63.40	67.64 61.87	64.46 56.15	66.77 61.00
6.	Population Listened to Radio (10 years old and over) - Utban	(%)				<u>.</u>	
	Female		53.91	59.75	54.43	50.36	57.35 58.79
	Male Rural		47.85	60 20	57.57	58 29	
	Female	-	34.70	59.85 62.11	47.26 55.21	44.28 43.90	47.86 53.12
	• Male - Urban + Rurat		34 67	6211	.13.21	1	ì
	• Female • Maie	<u> </u>	42.76 40.12	59.81 61.30	49.57 55.96	45.99 51.56	\$1.30 55.17
7.	Population Watched Television (10 years old and over)	(%)			· · · · · · · · · · · · · · · · · · ·		-
	- Urban • Female • Male	-	87.62 88.07	86.93 86.75	81.80 83.36	78.46 78.68	85.51 85.16
	• Mate - Rural • Female		54.55	57.63	\$4.55	39.57	53.30
	• Male • Urban + Rural		64.47	62.73	62 25	43.25	59.81
	• Female • Male		68.43 74.23	70:05 72:98	63.35 68 97	50.51	64.97 69.32
8.	Population Read Newspaper/ Magazine (10 years old and over)	(%)					
	- Urban • Female		26.55	28.43 36.76	15.27 22.18	27.55 34.29	28 91 37.91
	• Male - Rurat		38 69	36.76			1
	Female		6.97	6.48	5.66 8.05	7.03 8.60	6.42 10.00
	• Male - Urban • Rural		14.19	11 13	1		1
	• Female • Male	-	15.19 24.33	15.78 22.07	6.50 9.47	12.80 15.87	14.59 20.10
				l	t		· †

Sources: Social Indicators on Women in Indonesia 1995, BPS and Environmental Statistics of Indonesia 1996, BPS,

THE STUDY ON THE IMPROVEMENT IN QUALITY OF THE TROPICAL FRUITS

Appendix GRural Community and Gender

APPENDIX G RURAL COMMUNITY AND GENDER

Table of Contents

		Page
1.	POPULATION AND SOCIETY ECOLOGY	G-1
- 1	1.1 Approach and Limitation	
	1.2 Total Population and Rural Community Type	
	1.3 Present Situation of Fruit Growers	G-2
	1.4 Social Mobility of Family Members	
_	•	
2.	COMMUNITY PROFILE OF THE POTENTIAL DISTRICTS FOR FRUIT	
	PRODUCTION DEVELOPMENT	
	2.1 Communication among Members	
	2.2 Spatial Planning and Sustainability of the Project	
	2.3 Family Size and Estimated Working Hours	G-4
	2.4 Farmers' Intention and Fruit Preference	G-5
3.	WOMEN IN DEVELOPMENT AND FAMILY SPENDING BEHAVIOR	G-5
	3.1 Female Participation in Labor Force and Responsibility	
	in Making a Decision	G-5
	3.2 Family Welfare and Social Activity	
	3.3 Spending Behaviors of Farm Households	
4.	GRASSROOTS INSTITUTION BUILDING FOR COMMUNITY	
4.	EMPOWERMENT	G-7
	4.1 Farmers' Group, KUD, and Fruit Marketing Association	
	4.2 NGOs and Proposed Business Development Units (BDU)	
_	A DOGOVO EDOM DOM AND OPOSOD IN ACDICAL WARD AT	
5.	LESSONS FROM PRIVATE SECTOR IN AGRICULTURAL	0.0
	EXTENSION PROGRAM	
	5.1 Experiences of the Private Sector	G-8
6.	BUSINESS DEVELOPMENT UNIT (BDU) MODEL FOR	
	FRUIT PRODUCTION DEVELOPMENT	G-9

List of Tables

(Tables in Text	1)	
Table G2.1	Literate Rate (5 years old and over) by Four Provinces, 1995	G-3
Table G3.1	Percentage of Working Female	G-6
(Tables in Ann		
Table G-1-1	Population by District, Urban/Rural, and Gender in Target Districts	G-11
Table G-1-2	Total Income, Fruit Income Share, and Socio-Economy of Farm	
	Households	G-12
Table G-1-3	Major Fruit Income	G-13
Table G-1-4	Percentage of Family Member Presence at Home throughout a Year	G-14
Table G-1-5	Natural Disasters and Main Livelihood Problems	G-15
Table G-2-1	Race and Local Dialect	G-16
Table G-2-2	Distance and Road Condition to Nearest Town	G-17
Table G-2-3	Percentage of Farmers having Communication Media Set at Home	G-18
Table G-2-4	Three Main Modes of Transportation to Nearest Town	~
	in the Sampling Areas	G-19
Table G-2-5	Family Size and Estimated Working Hours	G-20
Table G-2-6	The Farmers' Preference on Target Fruit by Ranking	G-21
Table G-2-7	Percentage of Farmers' Support on Target Fruit Crops	G-22
Table G-2-8	Major Premise to be Active in Fruit Production.	G-23
Table G-2-9	Average of Farmers' Experience on Target Fruit Crops (Years)	G-24
Table G-3-1	Rural Population 10 years of Age and over who Worked by	<i>-</i>
TD 1.1. CL C. C.	Main Industry in Four Provinces, 1995	G-25
Table G-3-2	Working Population in Agriculture Sector (10 years old and over),	0.00
T. L. C. 2. 2	1995	G-26
Table G-3-3	Role of Women in Various Economic Activities	G-27
Table G-3-4	Position Trend of Women in Indonesia by Formal Jobs	C 07
Table C 2 C	and by Years	G-27
Table G-3-5 Table G-3-6	Labor Force Participation Rate by Target Province, 1995	G-28
1a0ic G-5-0	Illiterate Population Rate in Four Provinces (10 years old and over), 1995	C 20
Table G-3-7	Working Hour per day of Wife and Husband and Percentage of	G-28
1 abic (1-3-7	Responsibility in Making Decision of Farming Activity	G-29
Table G-3-8		G-29
Table G-3-9	Comparison of Average Monthly Salary, 1995	G-30
Table G-3-10		0-30
1 aoic G-3-10		G-30
Table G-3-11	(5 years old and over), 1995	
	Percentage of Farmers' Participation in Social Interaction at	G-30
140K (3-3-12	Rural Community Level	G-31
Table G-3-13		G-32
Table G-4-1	Number of Existing Farmers' Groups and KUDs in Four Provinces	G-33
Table G-4-2	Average Land Holding Size and Area Possible to be Converted	G-3.
1 (()() ()-4-2	for Fruit Growing	G-34
Table G-4-3	Ownership of Land in Four Provinces.	G-35
Table G-4-4	Total Number of Food Crop Extension Workers (PPS & PPL)	U-3.
THE THE	and NCO	G-30
Table G-5-1	Case of Rural Extension Program by Private Institution.	G-3'
111010 (3 1) 1	case of range paragraph i to fract of three mandaton	0-3

APPENDIX G RURAL SOCIETY AND GENDER

1. POPULATION AND SOCIETY ECOLOGY

1.1 Approach and Limitation

The terms of community and society are often used ambiguously in sociology. Mostly, they are used interchangeably to refer simply to any aggregation of people living together who share a common culture. But, attention is paid to the specific kinds of comprehensive social groupings. When the population cluster or community is relatively small, focus will be on individual residences and places of work, and based on daily patterns of interaction such as daily trips for work, shopping, and school. Examples of community are villages, cities, suburbs, and metropolitan area, and the basic unit of the community is residence unit or household. While, a society is grouped out of all existing system units at particular time and place, it has the highest degree of self-sufficiency.

Consistent with the above context, the baseline survey was conducted for the community analysis in order to find out the alternatives in approaching the smallholding fruit growers in improving the quality of the tropical fruits in four Provinces: North Sumatra, West Java, East Java, and South Sulawesi. However, some analysis would be in the context of Indonesian society as a whole whenever it is needed in elaborating a comprehensive and sound understanding of nature of social phenomena.

Consistent with the objective of the Study, the primary aim of the baseline survey was to analyze the present farmers' conditions and farmers' intention of promoting fruits culture, and these survey results will be integrated into the Basic Development Policy and Plan. Given that all farmers households are living in the fruit farming, the fact that some tend to do better (economically and environmentally) than others has been an issue of concern. This survey was organized on the conviction that a clear understanding of the force underlying this disparity could shed light on some the presently intractable problems, leading to the formulation of effective follow up actions. Given such a principal objective, the questionnaire used focused on eliciting information relating to socio-economic background, farm performance, farm practices, off-farm employment and economic opportunities, and expenditure patterns of farmer Jointly, these data were intended to provide not only a representative sociohouseholds. economic profile of farmer families in the village area but also to enable household income to be related to such fruit development scheme such as work aptitude, farm and labor inputs, access to off-farm opportunities, and external aid. To ensure that sufficient variations in socioeconomic background and agriculture development could be captured, the survey adopted three approaches of sociology: Structural Functionalism, Conflict Theory, and Symbolic Interactionism.

1.2 Total Population and Rural Community Type

(1) Population

Total population of potential Districts in North Sumatra is 3,426,658, accounting for about 30% of the total Provincial population. West Java is 12,062,495 or about 30.7%; East Java is 7,171,270 or about 21%; and South Sulawesi is 3,949,562 or about 52%. Female population in rural area is larger than the male population in all the Districts of North Sumatra, East Java, and South Sulawesi, while the female population of West Java is smaller than male as presented in Table G-1-1.

(2) Rural Community

In Indonesia, there are six types of rural communities as categorized below:

- Food gathering community (Masyarakat Peramu)
- Fishing community (Masyarakat Nelayan)
- Rainfed agriculture community (Masyarakat Peladang)
- Pastoral community (Masyarakat Peternak)
- Garden and plantation community (Masyarakat Pekebun), and
- Irrigated cultivation community (Masyarakat Pertanian Sawah)

In the Study Area, most of the farmers or fruit growers belong to the types of communities of rainfed agriculture, garden and plantation, and irrigation cultivation.

With reference to USAID Agribusiness Development Project, Jakarta, 1995, some significant characters of those communities are clarified as follows:

Rainfed agriculture community:

- Reciprocality is a commonly practiced among members.
- Respect to mother is observed although the male is the main speaker in a family.
- "Gift" approach is a common practice among members.
- Indirect response is usual in communication especially when talking to higher group of community.
- Some specific places, trees, time, words, personality of certain members are considered as sacred.

Garden and plantation community; and

- Reciprocality is a commonly practiced among members.
- Respect of sharing labor and functions.
- A pioneer spirit is highly appreciated (e.g. opening the remote area).
- Clearness of the benefit in term of money is the most important consideration in adopting the innovation.

Irrigated cultivation community.

- Social compatibility is most important for members.
- Respect to uniqueness of functions, principle of groups, and religions.
- Ability in maintaining the good relation with upper community and respect of members.
- Informal hierarchy established by community members.

1.3 Present Situation of Fruit Growers

A summary of income, fruit share in income, and profile of farm households is presented in Table G-1-2. Income share of fruit sub-sector varies with the Districts, from 0.8% to 37.5%, greatly depending upon the total income, comparative advantage of area, and kind of fruit crop.

Most of development areas the proposed for fruit production have the positive potential in saving, except the areas of Simpang Empat (Karo District) and Sukadana (Ciamis District). Out of 16 sample areas of the baseline survey, only 6 areas have 100% of family members staying at home throughout a year.

Table G-1-3 shows the major fruit trees being cultivated by farmers in the proposed areas. Most of farmers are engaged in fruit growing including target fruit crops, and they are mixed plantings. Most of fruit growings are practiced by typical smallholding fruit growers in the survey areas, except for those in Districts Karo and Jeneponto. The fruit crops are solely

produced for family consumption, and not yet cultivated for commercial purpose. Some crops are naturally grown in their field without any special cares.

The development areas proposed for fruit production are facing the natural disaster and livelihood problems as presented in Table G-1-4. Low income is the most significant livelihood problem of these areas. Unfortunately they often meet serious natural disasters like erosion, flood, and drought. All of these need high technology and a lot of money to reduce their damages.

1.4 Social Mobility of Family Members

With reference to Table G-1-5, mobility of family members in the fruit growing areas is high, especially the husband and elder children getting job in off-farming period or going to school. Wife is used to stay at home throughout a year to take care of baby, children, house, and farming as well. The husband usually stays at home during the times of land preparation, planting, and harvesting. The family income source is not only from their own farm land but also from off farm jobs. This situation is significant in Ciamis District. Out of 16 survey areas, only 8 areas have 100% of household head who is a full-time farmer, and the rest are farm labors, blue collar labors in cities or carpenter, mason, etc.

2. COMMUNITY PROFILE OF THE POTENTIAL DISTRICTS FOR FRUIT PRODUCTION DEVELOPMENT

2.1 Communication among Members

At least seven races of Batak, Melayu, Sunda, Java, Madura, Bugis, and Toraja as shown in Table G-2-1 will involve in fruit production development of the Study Area. Each race uses own language at homes and in markets. Comprehension of the local dialect is not a serious problem in the area because almost all people has ability to speak and understand the national language (Indonesian) as indicated in Table G2.1.

Table G2.1 Literate Rate (5 years old and over) by Four Provinces, 1995

	Url	ban	Ru	ıral	Urban -	Rural
Province	Female	Male	Female	Male	Female	Male
North Sumatra	99.37	99.35	89.89	92.82	93.76	95.45
West Java	93.55	95.69	77.89	85.53	84.43	89.91
East Java	86.36	93.70	63.21	78.48	70.59	83.24
South Sulawesi	93.70	95.50	75.64	80.96	80.64	85.03
Overall Indonesia	92.52	95.97	76.82	85.54	82.40	89.22

Source: Social Indicators on Women in Indonesia, 1995

In Indonesia, there is no minority or majority ethnic group in term of society cluster. In National Philosophy of "Pancasila", the pluralistic community is recognized, but unfied by common national language, nationalism, and unity of territory.

Cultural pluralism is the dominant pattern in Indonesia. Most people groups are allowed to maintain their own religious affiliations and other cultural traditions. To function as a unit, a society must have a high degree of cultural unity. This is maintained by Indonesian language to make every ethnic function in framework of nation and character building.

2.2 Spatial Planning and Sustainability of the Project

The broad process of urbanization entails much a shift of population from rural to urban and suburbs; it also involves a restructuring of behavior, values, and patterns of social organization. The living patterns of rural areas and small towns give way to the patterns of large metropolitan areas; rural cultural values are replaced by the culture of urbanism. These changes would be greatly depend upon the distance between rural and urban area, intensity of communication, and intensity and mobility of community. Mobility of the community for fruit production development is indicated by the presence at home of family members as presented in Table G-1-4.

As shown in Table G-2-2, the distance of fruit production potential area to town ranges from 1.5 to 13 km, and as a result the culture of urbanism will easily affect the rural community behavior and also the change of land use. Interpersonal change would be marked by increasing fragmentation and specialization of activity and relationships. More and more relationships are separated from the web of community life as a whole or take place in specialized organizations. Organization in the community have become more complex and specialization. Through implementation of fruit production development in the potential areas, the amenities of rural life will be improved and attract the urban people to invest their money in the promising areas, then in turn the fruit growers participants will come back to another end of development process, and finally the benefit of the project will fruit the urban community. Therefore a spatial planning of Districts is necessary to be enforced

Amenities of rural life were measured by electrical communication media and modes of transportation in the survey area. Table G-2-3 shows the total electrical communication media belonging to the interested farmers. Positive impact of these existing electrical communication media will be useful for disseminating the information to the beneficiary-farmers. Radio and TV set are also the most popular electrical communication media among farmers in the rural areas.

The existing road condition varies depending on the mode of transportation that is available in the respective areas. Out of the total sample potential areas, 10 areas have a small passenger public transportation system, but the rest are served only by motor bike. In some areas road condition is very bad, so walking is the only way to reach the potential area. Although the distance to town is relatively near, some project sites are located in an isolated area. Details are presented in Table G-2-4.

Through promotion of fruit production development in a community that has relatively good public services and infrastructure, the open society in the area will be created, and then in turn the social mobility will be turned upward and horizontal. The upward mobility will be created by creation of job and skill, and horizontal mobility will be activated by better income. Consequent to the horizontal social mobility, the second activity will be generated such as improvement the house, change of land value, fragmentation, and specialization of jobs. All of them would be managed by a spatial planning instrument.

2.3 Family Size and Estimated Working Hours

Family is a group of kin who lives together and functions as a cooperative unit for economic and other purposes. In twenty years ago, the Indonesian family was a big including the nuclear and extended members or some times called three generation family stay in one house, but at present as shown in Table G-2-5, the average family member ranges from 4 to 5, consisting of husband, wife, and children.

Most of communities investigated by the baseline survey belong to the "patriarchy", in which the eldest male dominates, sometimes wielding authority in arbitrary ways. The patriarch has the final word in all decisions regarding family members -- whether family should invest money in new equipment for the family farm. However, this is a basic arrangement of family

but, as it was stated in previous chapter, the behavior of family will be influenced by community character. They respect the mother but in formal the male is the representative of family. All important decisions should be consulted firstly to mother before the decision is made.

For rural community, total working-days per year are estimated at about 52 days for regular religious duties, 20 days for formal and informal holidays, and about 28 days for social interaction including the PKK program, so the total is about 100 working-days. On average each family member, husband and wife, has about 260 effective working-days. Working-hour in farming of husband and wife is different, some husbands work 10 hours for farming, while wives work 7 hours or it could be reversed depending upon the folk usage in each communities. In some communities, the wife spent 10 hours for farming while husband work only 5 hours. Estimated working-hours available of each household is presented in Table G-2-5.

2.4 Farmers' Intention and Fruit Preference

Table G-2-6 indicates that the target fruit crops mostly suit the farmer's intention and preference. The farmers' assessments on the overall target fruit crops in four Provinces are presented in Table G-2-7. Farmers in North Sumatra support the cultivation and production on rambutan and marquisa; farmers in West Java are for mango and banana; farmers in East Java for avocado and duku; and farmers in South Sulawesi for rambutan. Farmers' prefer to only one or two specific fruits, but it does not mean the other fruit is not suitable for the area. It might be a stereotype opinion of farmers due to limited experience in fruit cultivation.

Table G-2-8 indicates the major premise of farmers in response to the target fruit, how they look it for their land. The first premise have been analyzed into the group of market oriented, agronomic oriented, financial oriented, and skill or extension oriented. The result of analysis revealed that five areas have market oriented, 8 areas have agronomic oriented, 3 areas have financial oriented, and only one area has skill or extension oriented. This could be caused by different experiences of farmers about fruit cultivation and also the existing fruit development in the area. However, most of farmers are comprehensive oriented on fruit cultivation, and it could be changed if the farmers have a look on the real fruit development area.

The farmers' experiences in growing the target fruit crops are different from one area to another. The average years of farmers' experiences presented in Table G-2-9 indicate that the farmers of Jeneponto and Majalengka Districts have the lowest rate of experience in mango, which could predict that the farmers in these two Districts have no skill and experience in target fruit crop cultivation.

3. WOMEN IN DEVELOPMENT AND FAMILY SPENDING BEHAVIOR

3.1 Female Participation in Labor Force and Responsibility in Making a Decision

Table G3.1 indicates that the female workers in formal sector increase, while decrease in informal sector during the period of 1980 to 1990. However, the informal sector absorbs the larger portion of both female and male labor force.

Table G3.1 Percentage of Working Female

Sector	Fem	ale	Male			
1	1980	1990	1980	1990		
Informal	74.3	68.2	66.6	60.1		
Formal	25.7	31.8	33.4	39.9		
Total Percentage	100	100	100	100		
Total Absolute	16,705,483	25,788,997	34,486,029	46,194,882		

Source: BPS, Statistical Profile of Women, Mother and Children in Indonesia, 1994

In 1990, the share of female workers in formal sector was 31.8% and that of male was 39.9%, while in 1980, the female and male workers in formal sector was accounted for 25.7% and 33.4%, respectively. These changes are still in a sociocultural evolution process. The sociocultural evolution process could be influenced by job opportunities to be created in Indonesia for four Provinces where the female could participate in development as presented in Table G-3-1.

Agriculture, manufacturing, and trading industries are the most important for female to involve in development. The fruit development project would be a promising alternative to expand the job opportunity for female in future, and the fruit production development will create the jobs in upstream to downstream areas. In the interview, a women farmer in Karo District of North Sumatra gave the answer that they are very happy if the fruit production plan can create the new jobs for the area. Total employment in agriculture of target Districts of four Provinces are presented in Table G-3-2. The role of female in economic activity is presented in Table G-3-3. For a comprehensive understanding on women in development, there is a trend that the female role in formal sector is significantly increasing year by year (see Table G-3-4). However, the labor participation rate of female group is still lower than the male group either in urban area or rural area as shown in Table G-3-5.

According to the sociocultural evolution theory, societies and cultures change and develop over time from simpler to more complex forms. Therefore there are three major evolutionary trends of community in Indonesia:

- 1. Social concern about the environment is increasing due to technological development: Table G3.1 shows the changes in job sectors and by female and male as well, and Table G-3-1 indicates that agriculture, manufacturing, and trading give the employment opportunity for female group. However, among four Provinces, situation is different as shown in Table G-3-2, as it depends on the regional development stage. This implies that there was improvement of the ability of both group and also it might change environment due to macro economic development of Indonesia.
- 2. Increasing division and specialization of social and cultural units such as groups, organizations, and institutions, a process called social differentiation: Table G-3-3 shows the role of women in economic activities and Table G-3-4 indicates employment opportunities of rural male and female workers in agriculture and overall industries in respective target Districts, this varied from one District to another District of certain Province. In Karo District, female workers in agriculture as well in all industries were larger than male group, but in the Districts of Tapanuli Tengah, Tapanuli Utara, Tapanuli Selatan, and Langkat, rural male is larger than female group. All target Districts of West Java, East Java, and South Sulawesi rural male workers in agriculture and all industries was larger than female group. However the labor participation of female is lower than male in urban area and rural area as well as shown in Table G-3-5.

 Increasing interdependence of social units, with each unit relying more on other units to help it perform its task;

One factor (probably the main factor) of interdependence of social units is specialization level. The specialization depends upon education level. The education level was measured by the level of illiterate as shown in Table G-3-6. Urban society of Indonesia both female and male could be toward specialization process but at certain degree the rural male and female are still at stage of traditional arrangement. However, at some degree the division of labor and share of responsibility in making decision of farming activity is not significant differentiated. Table G-3-7 indicates that the working hours between male and female is not significant different, but due to a stereotype opinion of traditional society, the reward given to males usually higher than female both in formal and informal sectors as shown in Table G-3-8.

3.2 Family Welfare and Social Activity

The family welfare can be measured by Infant Mortality Rate (IMR), Nourish level of Kids, and Expected Life. According to Table G-3-9, the IMR of four Provinces revealed that male IMR is larger than female, which could be caused by the nutrition condition that female is better than male as per Table G-3-10. Consequent to well nourished at the early stage, the expected life of female was higher than that of male as shown in Table G-3-11.

In general, the fruit growers have a good interaction among themselves, which could lead to a conducive condition in launching the learning and extension program. The entry points could be the existing farmers groups, "Arisan" activity, and religious activity. Detailed data on the farmers' social participation is presented Table G-3-12.

3.3 Spending Behaviors of Farm Households

Spending behavior of farm households varies from Districts, greatly depending upon the present total income as shown in Tables G-1-2 and G-3-13. In general, the lower income for livelihood, the higher expectation to buy the consumption goods. This phenomena is logic and understandable that the family with very low income is more sensitive to have many items going to buy when they have better income. Therefore, it is important to pay attention to the financial management at farm-households' level in order to increase their welfare.

4. GRASSROOTS INSTITUTION BUILDING FOR COMMUNITY EMPOWERMENT

4.1 Farmers' Group, KUD, and Fruit Marketing Association

Both Farmers' Group and KUD are in process of sociocultural change at grassroots level. Their evolution at village level is still concentrated on supporting the paddy intensification program with some modification as it is needed. Most of Farmers' Group and KUD are familiar with paddy cultivation, but have limited knowledge in fruit business. Total number of Farmers' Groups and KUDs engaging in food crops production and marketing is presented in Table G-4-1. Marketing Association is established in East Java by a certain exporters, but their role is not significant yet.

4.2 NGOs and Proposed Business Development Units (BDU)

Developing and introducing a model of "social engineering" for fruit development should be based on the existing landholding size, existing social engineering, and the existing channel. Table G-4-2 indicates the average landholding size of farmers ranges from 0.5 to 2.7 ha. As Ownership Title Certificate is required to utilize bank credit, most of the lands in sample are not

eligible for credit scheme according to the assessment on the existing legal documents as shown in Table G-4-3.

Table G-4-4 shows the total number of extension workers (PPS and PPL) of each proposed District, and according to a decree of Ministry of Agriculture and Home Affairs, all PPS and PPL are under jurisdiction of Bupati (Head of District). PPS is a highly specialized extension worker who graduated from university and PPL is required to be with senior agriculture high school background, and both of them are under the command of Bupati and technically under the supervision of the respective Dinas. Both are strategic personnel in empowerment of the community at grassroots level. Bupati has sufficient authority in supervising both "Dinas" and extension workers. Therefore, the Project Management Unit should be established paying attention to such organizational structure at District level.

5. LESSONS FROM PRIVATE SECTOR IN AGRICULTURAL EXTENSION PROGRAM

Table G-5-1 showed a summary of the case of private extension program, and a tot of lesson could be learnt.

5.1 Experiences of the Private Sector

(1) Extension Service borne by Farmer

A special transaction and payment system was introduced by NGO of Yayasan Mitra Desa at Simalungun District of North Sumatra Province. Yayasan Mitra Desa in collaboration with Bupati Office set a program of Agricultural Extension for cabbage growers. The growers should pay the fee of Rp.20 per kg of sold cabbage to a company or a trader which is arranged by Yayasan Mitra Desa. Out of Rp.20, Rp.7 is paid to the District government or Bupati office, Rp.3 to Extension Worker who has responsibility in supervision the cabbage growers to have the good quality cabbage, and Rp.10 to NGO. In discussion with participants at Simalungun District, they showed interest to follow this arrangement. Before this arrangement, farmers sell their cabbage through "agent or third person" who charge them Rp.70 per kg cabbage sold without any agriculture extension service. However, this model is good for the beginning stage, and the sustainability of this service greatly depends upon the skill of the NGO staff and extension workers in creating the markets.

(2) Extension Service borne by the Project

This type of arrangement is practiced by NGO of LEPPSEM (Lembaga Pengembangan dan Pembinaan Sosial Ekonomi) for Small Scale Irrigation Management Project (SSIMP) in South Sulawesi Province. Water User Association Organizer (NGO) is paid by the Project to conduct the extension service at village level, and their activity is stated in contract between NGO and the Project. Such arrangement just follows the existing government system for extension services, and the difference is the NGO paid by the Project and existing extension worker paid by MOA. The sustainability of this service depends on establishment of mechanism to continue the activity whenever the SSIMP terminated.

(3) Rural Credit and NGO's guidance

According to the Dinas Pertanian staff of West Java, Yayasan Mandiri (NGO) conducted the Feasibility Study (F/S), then proposing the F/S to a bank for a credit supply to farmers, then after credit has been approved, the farmers will sign the credit contract to Bank. The service of NGO is covered by Government Project. The problem is the sustainability of activity whenever project terminated.

(4) Integration of Smallholder, Village Trader and Professional Staff in one Organization

This type of management is introduced by PT Sarana Yogya Ventura (SYV) to organize all the subjects related to "Salak Pondoh" program. SYV provides the financial and management service in agribusiness through a cooperative of GAMADIN. The cooperative organizes the village traders in buying the salak from farmers, and village traders sell the salak to GAMADIN in cash. GAMADIN sell the salak to supermarkets. A supermarket chain buys the salak in term of 14 days paid after delivery. The role of SYV is to provide cash money to buy the salak from farmers, and GAMADIN is to take the responsibility to organize the business and pay back the money to PT SYV. This is not credit basis, but sharing basis. PT SYV has 10% of profit and cooperative has 90% of profit projection. According to the staff of PT SYV, the cooperative GAMADIN has managed the capital of about Rp.200 million during the last two years, and has paid back capital to SYV about Rp.30 million. The problem is not availability of capital, but is how to expand the market of salak business. GAMADIN members are composed of 4,500 farmers and village traders, and Gajah Mada University staff. Lesson learnt from the above is the need to empower the farmers, village traders, and professionals so as to integrate them into one workable organization.

6. BUSINESS DEVELOPMENT UNIT (BDU) MODEL FOR FRUIT PRODUCTION DEVELOPMENT

A rule of thumb in social engineering process is to start a new model based on the existing model of community. Based on those experiences learned from the existing model which is presented in the previous section, the following assumptions are derived:

- Fruit farmers are willing to pay for the technology; and

- Farmers, village traders, and professionals can work together to make a good business.

Studies in four Provinces indicate the following major problems for fruit production development:

Farmers' Problems:

From the marketing point of view:

From the fruit development point of view:

lack of technology;

- lack of fund for fruit processing;

- fruits is not known by community;

- price fluctuation;

lack of transportation;

poor market facility; and
a few middlemen traders.

tt 10 W (thiddlotton tradi-

insufficient fund for starting;poor farming technology;

- water shortage;

- lack of land to have efficiency;

- high mobility to look the off-farm jobs;

- wild grazing cattle practice; and

- manpower shortage.

Village Traders' problems:

deficiency of working capital;

- no bank can provide capital;

- high interest money lender for working

capital; and

 delay payment system of big company/supermarket/hotel etc. From the sociological point of view, the problems of both farmers and village traders are derived from their functional interdependence. One unit relying more on the other unit to help it perform its task. The problem is how to arrange both parties in one viable institution.

The partnership mode between the two parties could be in forms of:

- (1) <u>Farmers' individual based activities</u>: Farmers require the technology and financial assistance for management of orchard and marketing activity on individual basis. Consequently, all the added value will belong to farmers, and nobody can claim to share in it. This premise requires a sound skill in business including bio-technology, working capital, and time for marketing operation. The agricultural extension agency just provides the services, and the decision is made by farmers themselves without any assistance. This could be feasible in fruit estate plantation system, but it is very hard to practice this system for smallholders.
- (2) <u>Nucleus Estate of Smallholders (NES)</u>: The NES is established for fruit production development. This institution has a specific market channel of products, but they are processed in other factories because this estate is not equipped with proper facility. In fact, in spite that the NES was introduced in the last two decades, no significant success has been achieved so far.
- (3) Syndicate of fruit growing farmers and nursery farmers: Nursery farmers who are engaging in supply of planting materials could provide the technical assistance to fruit growers in term of fruit cultivation techniques. In fact, at the production level, it is a sound institution, but it is not functional at the harvesting and marketing stage. Nursery farmers have no access to fruit market channel.
- (4) Syndicate of fruit growers, nursery farmers and village traders: These three parties constitute a commercial management system in binding the common actions. The village traders have the market accessibility, and nursery farmers have good planting materials. The fruit growers produce crops and their activities are closely interrelated with other partners. The problem is lack of working capital.
- (5)Business Development Unit (BDU) Model: This institution is set up to promote the "small syndicate" based on the profit and risk management among the parties concerned. This concept was elaborated from the lesson of existing extension service organized by private organization such as NGO, private firms, and farmers' group. Four parties such as farmers, village traders, financial agency, and professional concerned are organized into one grassroots commercial institution. The BDU includes a number of farmers who own fruit trees equivalent to about 10 ha unit, 5-10 village traders, 0.20 professional staff, and financial agency. This estimation was made based on the field experience of GAMADIN Cooperative and PT Sarana Yogya Ventura in Salak Pondoh business development. The unit measurement is not by hectare but the total number of fruit trees. In case of 500 ha as the economic scale of fruit project, a BDU consists of 1,000 farm-households (estimated at 0.5 ha/household), 25-50 village traders, and five professional staff, and one financial agency. The professional staff who are selected and proposed by financial agency will be hired and paid by BDU. The income of professional staff greatly depends upon the value added by him.. BDU could be upgraded to a cooperative, but if not consolidated yet, it is recommended to start with a grassroots organization.

Table G-1-1 Population by District, Urban/Rural, and Gender in Target Districts

No	Province/		Urban	T		Rural		Urban + Rural			
	District	Male Female Total			Male	Female	Total	Male Female Total			
		Naic	Pethate		111010						
'	NORTH SUMATRA	6,106	6,532	12,638	137,093	141,522	278,615	143,199	148,054	291,253	
	Dairi	9,625	11,750	21,375	108,601	108,680	217,284	118,229	120,430	238,659	
	Tapanuli Tengah	34,177	35,850	70,027	315,951	327,037	612,988	350,128	362,887	713,015	
	Tapanoli Utara		,				į				
	Tapanuli Selatan	54,432	58,461	112,896	464,000	476,160	940,160	518,432	534,624	1,053,056	
	Karo 26,928 26,928 53,856 Langkat 41,273 47,090 88,363		107,416	112,984	220,400	134,344	139,912	274,256			
					768,056	423,937	432,482	865,419			
1	Total 6 districts	172,541	186,614	359,155	1,515,728	1,551,775	3,067,503	1,688,269	1,738,389	3,426,658	
	Total whole	2,272850	2,291,684	4,567,534	3,263,367	3,283,766	6,547,133	5,536,217	5,578,450	11,114,667	
	Province										
	1									1	
2	WEST JAVA					252.052	1 713 063	1.602.020	1,690,003	3,383,233	
	Bandung	837,438	831,943	1,669,381	855,792	858,060	1,713,852 1,364,160	1,693,230 764,264	772,083	1,536,347	
l	Ciamis	88,680	83,507	172,187	675,584	688,576 754,206		2,206,597		4,412,195	
1	Bogor	1,434,487	1,454,392	2,888,879	772,110	7,14,200	1,,,20,,510	2,200,5511	2,200,550	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	!	ļ	į	į							
	Sumedang	64,914	72,941	137,855	361,284	360,962	722,246	426,198	433,903	860,101	
	Tasikmalaya	216,186	228,021	444,207	713,167	712,245		929,353	940,266	1,869,619	
	Lasikulaiaju	210,.00	,	,	-						
1	Total 5 districts	2,641,705	2,670,801	5,312,509	3,377,937	3,373,449	6,751,386	6,019,642	6,042,853	12,062,495	
1	Total whole	8,382,722	8,355,104	16,737,826	11,301,102	11,167,859	22,468,961	19,683,824	19,522,963	39,206,787	
	Province						ļ '		1		
				l			<u> </u>				
3.	EAST JAVA					252.404	200.030	462.201	472,986	936,289	
ll .	Lumajang	115,668		236,250	347,635					1,083,994	
1	Jombang	173,428	189,318	362,746 263,998	352,176 315,191					906,587	
	Tulungagung	126,290 24,440		203,993 46,624	299,185					646,054	
1	Trenggalek Pasuruan	160,576	151,424	312,000	466,048				1 L	1,267,328	
1	Malang	291,600		578,097	882,792			1,174,392	1,156,626	2,331,018	
-	in and	2,,,,,,,		,							
	Total 6 districts	892,002	907,711	1,799,713	2,663,037	2,708.526	5,371,563	3,555,029		7,171,270	
- 11	Total whole	5,279,651	5,570,754	10,850,404	11,318,545	11,675,068	22,993,609	16,598,197	17,245,822	33,844,017	
1	province						<u> </u>				
4	SOUTH	1							220 200	469,308	
B	SULAWESI	49,500				L .				228,840	
]]	Gowa	13,860								244,66	
ll l	Soppeng	17,550	21,960	39,510	95,712	109,431	7 400,104	11.5,20	131,400	\$,500	
ji .	Sidendreng		1		1]					
1	Rappang Majene	15,210	16,470	31,680	40,014	42,90	82,910	55,22	4 59,372		
lì	Bone	39,875									
-	Maros	23,375					8 211,38	125,71			
- [[Wajo	45,59			126,44	140,09					
	Tana Toraja	14.67		29,547	178,37	170.01					
	Polewali Mamas:	54,696	63,282	117,978							
li l	Mamuju	10,458									
	Encekang	4,79									
	Pinrang	20,83									
II.	Barro	12,99								<u> </u>	
	Total 13 districts										
	Total whole	1,037,57	6 1,098,935	2,136,511	2,642,36	4 2,779,49	3 5,421,85	74 3,079,94	3,070,420	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	province	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		1	<u> </u>	

Source: BPS, Results of the 1995 Intercensal Population Survey, Jakarta, 1996

Table G-1-2 Total Income, Fruit Income Share, and Socio-Economy of Farm Households

No	District/ Subdistrict	Target Froit	Income Rp 1000		Saving Potential Rp 1000	& Fruit to Total Income	Family size	% of Family member presence	Farmer as main job of HR Head (%)	No Fermal Education (%)	Elementary Education (%)	High School Education (%)
1	NORTH SUMATRA Langkat:										;	
	Setabat	Rambutan	2963.5	2598.857	364.72	37.5	4.63	87.93	100	0	81	16
	Binjai	Rambutan	4558.6	3284,420	1274.1	31.6	5.2	89	100	4	68	28
	Karo: Sunpang Empot Barus Jahe	Marquisa Marquisa	4051.200 2951.480	- 1	-49.341 -482.84	5.9 0.8	3.24 4.56	1	100 100	52 0	l .	16 20
2		Mangosteen	5363.743			7.5	4.28	64.48	92	o	96	4
	Majalengka: Kenajati	Mango	1909.032	1424.6	484.432	1.6	2.48	100	40	52	48	0
	Ciamis: Sukadana	Duke	1529.025	1878.086	-349.061	13.58	3.2	77	72		80	4
3.	EAST JAVA Mojokerto: Godang	Banana	5859.9	2993.1	2866.8	8	4.4	93.64	70		6	3 20
	Malang: Batulawang & Tojiman	Salak	6367.564	4063,909	2303.655 7	20	3.83	3 100	10		0 6	1 36
	Pasuruan: Grati & Ngoling	Mango	4000.99	2331,138	1669.852	11.9	3.9	6 96.0	1 10	0 2	8 3	2 40
	Trenggalek: Bendungan	Durian	2615.378	1341.979	1273.399	4.588	4.7	5 10	0 95.	8	0 95.	8 4.2
	Lumajang: Ronoyoso	Avocado & Banana	2039.924	844.652	1195.272	19.244	5.9	2 10	0 10	0 :	52 4	18
	4 SOUTH SULAWESI											
	Jeneponto: Bangkala	Mango	2557.310	2539.92	3 17.38	7 36.21	2 3.	167	77	77	16	58 (
	Sinjai: West Sinjai	Marquisa		5 1169.48		1 2.28	4 5.	44 96		00	52	32 L
	Luwe: Masaniba	Rambutan	2939.36	0 1546.09	1 1393.26	9 3.	3 5.	13 1	00	92	16	44 3
	Tanah Toraja Mangkudeh	: Mangostee	n 5812.57	4 3609.22	8 2203.34	16 9	9 5	28 86.	08	92	0	24 6

Source: Baseline Survey, JICA Study Team, 1997

Table G-1-3 Major Fruit Income

ند		Target	Ranking of fruit									
No.	District/ Subdistrict	Pruit	First	Second	Third	Fourth	Fifth	Sixth				
110.	Marie Dayonaret		(name)	(name)	(name)	(name)	(name)	(name)				
1	NORTH SUMATRA											
	Langkat:					i						
		Rambutan	Rambutan		Mangosteen							
	Binjai	Rambutan	Rambutan	Durian	Banana							
	Karo:											
		Marquisa	Marquisa	none								
	Barus Jaho	Marquisa	Marquisa	none								
2	WEST JAVA			\				rs - :				
	Purwakarta:	Mangosteen	Mangosteen	Banana	Rambutan	Avecado	Mango	Durian				
	Wanayasa						 					
	Majalengka:]					
	Kertajati	Mango	Mango	Banana		 	 					
	Ciamis:			_	4		Salak					
	Sukadana	Duku	duku	Banana	Avocado	Mangosteen	Salak					
3.	ESAT JAVA				Б							
	Mojokerto:	Banana	Mango	Rambutan	Banana							
	Godang			<u> </u>		<u> </u>		 				
	Malang:			Salak	Banana	Papaya						
	Batulawang & Tojiman	Salak	Avocado	Salak	Diakara	Гарауа		 				
	Pasuruan:	1										
1	Grati & Nguling	Mango	Mango	 				 				
	Trenggalek:	5	Banana	Avocado	Rambutan	Mango						
1	Bendungan	Durian	Danana	Avocado	Ramound	THUNG .	<u> </u>	 				
	Lumajang:	Avocado &	Mango	Avocado	Banana							
	Ronoyoso	Banana	Mango	Avocado	Dionaki		Ì					
4.	SOUTH SULAWESI	Darana	 					<u> </u>				
4-	Jeneponto:	Mango	Mango	1								
	Bangkala	Istaligo	l	1				1				
	Sinjai:	 		 								
	West Sinjai	Marquisa	Marquisa	Avocado	Mango	Banana	Mangosteer					
	Luwu:	1	 		<u> </u>							
	Masamba	Rambutan	Rambutan	Durian	Mango	Banana	Salak					
	Tanah Toraja:				<u> </u>							
	Mangkudeh	Mangosteen	others	Mangosteen	Rambutan	Durian	Marquisa	<u> </u>				
<u>L</u>	Triangeoden	13		<u> </u>	*************************************							

Table G-1-4 Percentage of Family Member Presence at Home throughout a Year

No.	District/Subdistrict	Target Fruit	All over the years stay at home (%)	Three months or more stay outside village (%)	Remark
1.	Langkat: Setabat Binjai	Rambutan Rambutan	87.9 89.0	12.1 11.0	Students
2.	Karo: Simpang Empat Barus Jahe	Marquisa Marquisa	96.1 100.0	3.9 0	Student
3.	Purwakarta: Wanayasa	Mangosteen	64.5	35.5	Kid, in School
4.	Majalengka: Kertajati	Mango	100.0	0	
5.	Ciamis: Sukadana	Duku	77.0	23.0	Most of husbands, do off farm in Jakarta
6.	Mojokerto: Godang	Banana	93.6	6.4	
7.		Salak	100.0	0	
8.	Pasuruan: Grati & Nguling	Mango	96.1	3.9	
9.	Trenggalek: Bendungan	Durian	100.0	0	
10.	Lumajang: Ronoyoso	Avocado & Banana	100.0	0	
11.	Jeneponto: Bangkala	Mango	77.0	23.0	
12	. Sinjai: West Sinjai	Marquisa	96.1	3.9	
13	Luwu: Masamba	Rambutan	100.0	0	
14	. Tanah Toraja: Mangkudeh	Mangosteen	86.1	13.9	

Table G-1-5 Natural Disasters and Main Livelihood Problems

No.	District	Target	******	Natural I)isasters	r	Main Liveliho	od Problems		
	Subdistrict	Fruit	First	Second	Third	Fourth	First	Second	Third	Fourth
	NORTH SUMATRA Langkat:		<u></u>				ter er eine ser er eine Stellen der eine Stelle			
	,	Rambutan Rambutan	erosion flood	wind wind	landslide drought	flood shadow	low income lack of land	sanitation technology	poor trans't low income	technology marketing
	Karo: Simpang Empat Barus Jaho	Marquisa Marquisa	wind drought	shadow	landslide	crosion	fack of land low income	fack of job off market	sanitation lack of tech.	marketing job oppor'ty
2	WEST JAVA Purwakana: Wanayasa	Mangosteen	Landslide	Winds	Frosion	Drought	low income	lack of Tech.	lack of land	sanitation
	Majalengka: Kertajati	Mango	Flood	Winds	Drought		Lack of Land	Sanitation	lack of job opportunity	poor transporta - tion
	Ciamis; Sukadana	Deka	erosion	landslide drought flood	ı.		lack of job opportunity	low income	lack of land	lack of know how
3.	EAST JAVA Mojokerto: Godang	Benana	erosion	drought			lack of sanitation facilities	poor transportation	lack of job opportunity	lack of know how/ technology
	Malang: Batulawang & Tojiman	Salak	landslide	lack of sunshine	winds damage		poor transporta - tion	lack of sanitation facilities	marketing problem	lack of land
	Pasuruan: Grati & Nguling	Mango	flood	drought	winds damage		lack of job opportunity	lack of sanitation facilities	poor transportation	lack of know- how/ technology
	Trenggalek: Bendungan	Durian	drought	landstide	erosion		lack of sanitation facilities	lack of land	marketing problem	poor transportation
	Lumajang: Ronoyoso	Avocado & Banana	landslide	lack of sunshine	crosion		lack of sanitation facilities	lack of job opportunity	lack of land	poor tranporta-tion
4	SOUTH SULAWESI Jeneponio: Bangkala	Mango	drought	wind			low income	lack of tech.	lack of land	market
	Sinjai: West Sinjai	Marquisa	erosion or lack of sunshine	flood	drought		lack of sanitation	poor transportation	marketing problem	
	Luwu: Masamba	Rambutan	wind damage or lack of sunshine	flood or erosion or landslide			lack of land	lack of saratation	marketing problem	
	Tanah Toraja: Mangkudeh	Mangosteer	landstide	erosion	lack of sunshine		lack of sanitation	poor transportation	marketing problem	

Table G-2-1 Race and Local Dialect

	Province/District	Population	Household	Ethnicity	Local Dialect	Usage language in trading/market
-	NORTH SUMATRA					
	Dairi	291,253	61,600	Batak	Batak	Batak/Indonesia
	Tapanuli Tengah	238,659	47,776	Batak	Batak	Batak/Indonesia
	Tapanuli Utara	713,015	161,824	Batak	Batak	Batak/Indonesia
	Tapanuli Selatan	1,053,056	228,992	Batak	Batak	Batak/Indonesia
	Karo	274,256	71,948	Batak	Batak	Batak/Indonesia
	Langkat	856,419	184,384	Java/Melayu	Java/Melayu	Indonesia
	Total 6 districts	3,429,658	756,524			
	Total whole Province	11,114,667	2,345,804			
2	WEST JAVA					
	Bandung	3,383,233	822,304	Sunda	Sunda	Sunda/Indonesia
1	Ciamis	1,536,347	434,368	Sunda	Sunda	Sunda/Indonesia
	Bogor	4,415,195	971,168	Sunda	Sunda	Indonesia/Sunda
	Sumedang	860,101	239,262	Sunda	Sunda	Sunda/Indonesia
	Tasikmalaya	1,869,619	469,792	Sunda	Sunda	Sunda/Indonesia
	Total 5 districts	12,064,495	2,936,894			
1	Total whole Province	39,206,787	9,452,633			
3.	EAST JAVA					
	Lumajang	936,289	244,079	Madura	Madura	Madura/Indonesia
	Jombang	1,083,994	270,300	Java	Java	Java/Indonesia
	Tulungagung	906,587	236,704	Java	Java	Java/Indonesia
	Trenggalek	646,054	166,792	Java	Java	Java/Indonesia
	Pasuruan	1,267,328	324,352	Madura	Madura	Madura/Indonesia
	Malang	2,331,018	564,201	Java	Java	Java/Indonesia
	Total 6 districts	7,171,270	1,806,428			
	Total whole province	33,844,002	8,648,081			
4	SOUTH SULAWESI	:				
	Gowa	469,310	102,912	Bugis	Bugis	Bugis/Indonesia
	Soppeng	228,846	54,089	Bugis	Bugis	Bugis/Indonesia
	Sidendzreng Rappang	244,662	54,726	Bugis	Bugis	Bugis/Indonesia
	Majene	114,596	24,112	Bugis	Bugis	Bugis/Indonesia
	Bone	613,819	133,200	Bugis/Bone	Bugis	Bugis/Indonesia
	Maros	259,638	53,610		Bugis	Bugis/Indonesia
	Wajo	364,155	85,740	•	Bugis	Bugis/Indonesia
	Tana Toraja	377,938	81,791	Toraja	Тогаја	Toraja/Indonesia
	Polewali Mamasa	420,719		Toraja/Bugis	Toraja/Bugis	Toraja/Indonesia
	Mamuju	237,789	50,272		Bugis	Bugis/Indonesia
	Enrekang	153,483	32,889		Bugis	Bugis/Indonesia
1	Pinrang	312,185	69,583	. ~	Bugis	Bugis/Indonesia
	Banu	152,957	35,579	Bugis	Bugis	Bugis/Indonesia
	Total 13 districts	3,950,097	870,173			
	Total whole province	7,558,368	1,635,142		<u> </u>	<u> </u>

Table G-2-2 Distance and Road Condition to Nearest Town

No.	District/ Subdistrict	Proposed Fruit	Name of Town	Distance	Road Condition
1.	Langkat:				
	Setabat	Rambutan	Setabat	4.2 km	fair
	Binjai	Rambutan	Binjai	7.86 km	fair
2.	Karo:				
	Simpang Empat	Marquisa	Kabanjahe	5 km	good
	Barus Jahe	Marquisa	Kabanjahe	8 km	good
3.	Purwakarta:	i		_	
	Wanayasa	Mangosteen	Wanayasa	4.6 km	fair
4.	Majalengka:				_
	Kertajati	Mango	Kadipaten	10.28 km	good
5.	Ciamis:				
	Sukadana	Duku	Banjar	10.6 km	fair
6.	Mojokerto:	[·		ļ	
	Godang	Banana	Pohjejer	3.664 km	fair
7.	Malang:]			good = 2%
	Batulawang & Tojiman			ļ	fair = 44%
		Salak	Malang	6.92 km	bad = 52%
8.	Pasuruan:				
	Grati & Nguling	Mango	Nguling	11.6 km	fair
9.	Trenggalek:				1
	Bendungan	Durian	Trenggalek	8.6 km	fair
10.	Lumajang:		İ		1
	Ronoyoso	Avocado &			
		Banana	Ramuyoso	4.72 km	good
11.	Jeneponto:				
	Bangkala	Mango	Allu Bangkala	7 km	fair
12.	Sinjai:	Marquisa	Sinjai	13 km	fair
	West Sinjai				
13	Luwu:				1
	Masamba	Rambutan	Masamba	2.3 km	fair
14.	Tanah Toraja:		ļ		1
	Mangkudeh	Mangosteen	Banjar	9.76 km	good

Table G-2-3 Percentage of Farmers having Communication Media Set at Home

No.	District/ Subdistrict	Proposed Fruit	Radio	TV Set	Video set
1.	Langkat:				
	Setabat	Rambutan	72	74	4
<u> </u>	Binjai	Rambutan	76	80	0
2.	Kare:				
	Simpang Empat	Marquisa	72	16	0
L	Barus Jahe	Marquisa	76	8	0
3.	Purwakarta:				
	Wanayasa	Mangosteen	80	76	0
4.	Majalengka:				
	Kertajati	Mango	80	28	0
5.	Ciamis:				
	Sukadana	Doku	76	36	4
6.	Mojokerto:				
<u> </u>	Godang	Banana	25	25	0
7.	Malang:				
	Batulawang & Tojiman				
		Salak	21	23	l
8.	Pasuruan:				
<u></u>	Grati & Nguling	Mango	16	17	3
9.	Trenggalek:	İ			
	Bendungan	Durian	17	4	2
10.	Lumajang:			Ì	
	Ronoyoso	Avocado &			
		Banana	8	9	0
11.	Jeneponto:				
	Bangkala	Mango	40	32	0
12.	Sinjai:	Marquisa	0	0	0
<u> </u>	West Sinjai	<u> </u>		<u> </u>	
13.	Lowu:				1
	Masamba	Rambutan	52	0	0
14.	Tanah Toraja:				
	Mangkudeh	Mangosteen	92	44	4

Table G-2-4 Three Main Modes of Transportation to Nearest Town in the Sampling Areas

No.	District	Proposed	<u> </u>	Iode of Transportati	
	Subdistrict	Fruit	The first	The Second	The third
1.	Langkat: Setabat	Rambutan	bicycle	motorbike	walk by foot
	Binjai	Rambutan	public trans't	bicycle	motorbike
2.	Karo: Simpang Empat Barus Jaho	Marquisa Marquisa	public trans't	motorbike	
3,	Purwakarta: Wanayasa	Mangosteen	Public Trans't	Motorbike	
4.	Majalengka: Kertajati	Mango	Public Trans't	Bicycle	motorbike
5.	Ciamis: Sukadana	Duku	Public Trans't	Walk by foot	motorbike
6.	Mojokerto: Godang	Banana	motorbike	bicycle	walk by foot
7.	Malang: Batulawang & Tojiman	Salak	motorbike	public transportation	bicycle
8.	Pasuruan: Grati & Nguling	Mango	public transportation	motorbike	bicycle/ walk by foot
9.	Trenggalek: Bendungan	Durian	public transportation	bicycle	motorbike
10.	Lumajang: Ronoyoso	Avocado & Banana	motorbikc	walk by foot	bicycle
11.	Jeneponto: Bangkala	Mango	motorbike	public trans'rt	
12.	Sinjai: West Sinjai	Marquisa	public trans'rt	motorbike	public truck
13.	Luwu: Masamba	Rambutan	public trans'rt	bicycle or walk by foot	motorbike
14.	Tanah Toraja: Mangkudeh	Mangosteen	public trans'rt	walk by foot	public truck

Table G-2-5 Family Size and Estimated Working Hours

lr							_
					*Average	*Average	
	:			Members	husband's	wife's	Available
	Province / District	Population	Household	per	working hours		working
N 1				House-	/day in	/day in	hours/Household
				hold	farming,	farming,	(Hours / year)
	 				260 days/year	260 days/year	
1.	NORTH SUMATRA						
	Dairi	291,253	61,600	5	2600	2000	4600
	Tapanuli Tengah	238,659	47,776	5	2600	2000	4600
	Tapanuli Utara	713,015	161,824	4	2600	2000	4600
	Tapanuli Selatan	1,053,056	228,992	5	2600	2000	4600
	Karo	274,256	71,948	4	1500	2600	4100
	Langkat	856,419	184,384	5	2600	1500	4100
1	Total 6 districts	3,429,658	756,524	<u> </u>		1500	
][
1	Total whole Province	11,114,667	2,345,804		 		
2.	WEST JAVA	1 202 022	033.304		2000	1000	1,000
	Bandung	3,383,233	822,304	4	2600	1000	3600
	Ciamis	1,536,347	434,368	4	900	1500	2400
	Bogor	4,415,195	971,168	5	1500	1000	2500
1	Sumedang	860,101	239,262	4	2600	1000	3600
	Pasikmalaya	1,869,619	469,792	44	1500	1000	2500
	Total 5 districts	12,064,495	2,936,894		<u></u>		
	Total whole Province	39,206,787	9,452,633				
3.	EAST JAVA						
	Lumajang	936,289	244,079	4	2600	1000	3600
1	Jombang	1,083,994	270,300	4	2600	1000	3600
	Tulungagung	906,587	236,704	4	2600	1000	3600
				1			
	Trenggalek	646,054	166,792	4	1500	2600	4100
1	Pasunian	1,267,328	324,352	4	1000	2600	3600
1	Malang	2,331,018	564,201	4	1500	1000	2500
	Total 6 districts	7,171,270	1,806,428	1			1
-	Total whole province	33,844,002	8,648,081	<u> </u>	†		
4.	SOUTH SULAWEST	33,011,002	0,010,001		<u> </u>	<u> </u>	
7.	Gowa	469,310	102,912	5	2600	1000	3600
1	Soppeng	228,846	54,089	4	2600	500	3100
	Sidendreng Rappang	244,662	54,726	4	2600	500	3100
	Majene	114,596	24,112	5	1500	2600	4100
	Bone	613,819	133,200	5	1500	2600	•
1	Maros	259,638	53,610	5	1500		4100
	Wajo	364,155	85,740	4	1500	2600	4100
H		377,938	1	1		2600	4100
1	Tana Toraja Polewali Mamasa	420,719	81,791 91,670	5	2600	2600	5200
1				5	2600	2600	5200
	Mamuju	237,789	50,272	5	1500	2600	4100
H	Enrekang	153,483	32,889	5	1500	2600	4100
l	Pinrang	312,185	69,583	4	2600	1000	3600
1	Barru	152,957	35,579	44	1500	1000	2500
1	Total 13 districts	3,950,097	870,173	 		<u> </u>	<u> </u>
	Total whole province	7,558,368	1,635,142	<u> </u>		<u> </u>	<u> </u>

Note: *Best estimated figure is based on the average hours working in farming as it was answer during the field survey; only 260 days per year working in farm, and the rest 100 days for holiday and religion ritual.

Source: BPS, Results of the 1995 Intercensal Population Survey, 1996.

Table G-2-6 The Farmers' Preference on Target Fruit by Ranking

No.	District	Target			Farmers' Pref			
	Subdistrict	Pruit	First	Second	Third	Fourth	Fifth	Sixth
1	NORTH SUMATRA Langkat:		Rambutan Rambutan		Salak Avocado		Avocado Banana	Mang'teen Marquisa
	Binjai	Kambolaa	(tintoona)					
	Karo: Simpang Empat Barus Jahe	Marquisa Marquisa	Marquisa Marquisa	Mang'steen Avocado	Salak			
2	WEST JAVA Purwakarta: Wanayasa	Mangosteen	Mangosteen	Rambutan Banana	Durian Mango	Avecad o		
	Majalengka: Kertajati	Mango	Mango	Banana	Durian			Marguica
	Ciamis: Sukadana	Duku	Doku	Banana	Durian	Mango	Mangosteen	Marquisa
3.	ESAT JAVA Mojokerto: Godang	Banana	Banana	Mango	Rambutan	Durian	Avocado	
	Malang: Batulawang & Tojiman	Salak	Salak	Mango	Marquisa	Durian	Mangosteen	
	Pasuruan: Grati & Nguling	Mango	Avocado	Mango	Mangosteen	Salak	Banana	
	Trenggalek: Bendungan	Durian	Dorian	Avocado	Mangosteen	Duku	Mango	
	Lumajang: Ronoyoso	Avocado & Banana	Salak	Avocado	Durian/ Rambutan	Banana		
4.	SOUTH SULAWESI Jeneponto: Bangkala	Mango	Mango	Banana				
	Sinjai: West Sinjai	Marquisa	Marquisa	Avocado	Mango	Banana	Mangosteer	
	Luwu: Masamba	Rambutan	Rambutan	Durian	Mango	Banana	Salak	
	Tanah Toraja: Mangkudeh	Mangosteer	Others	Mangosteer	Rambutan	Durian	Marquisa	

Table G-2-7 Percentage of Farmers' Support on Target Fruit Crops

No.	District/ Subdistrict	Target Froit	Durian	Marquisa	Mango	Avecado	Duku	Mangos- teen	Salak	Ram- butan	Banana
	NORTH										
	SUMATRA	1	•								
1 1											
	Langkat: Setabat	Rambutan	64	20	36	20	48	60	36	84	60
		Rambutan	64	0	0	0	0	0	0	100	60
		Kamoutan	UH	· · · · · · · · · · · · · · · · · · ·	<u>-</u> -					100	
	Karo:	., .	1.0	100	0	0	0	0	0	20	0
		Marquisa	16	100			0		0	20	0
L		Marquisa	0	100	0	0	<u>'</u>	<u> </u>		20	
2	WEST JAVA										
	Purwakarta:								_	_	
	Wanayasa	Mangosteen	28	0	4	24	0	68	0	8	36
	Majalengka:										
	Kertajati	Mango	16	0	100	0	0	0	0	0	100
	Ciamis:										
	Sukadana	Duku	36	4	16	16	76	36	12	20	16
3.	EAST JAVA										[
	Mojokerto:			[1						
1	Godang	Banana	4	0	4	0	0	0	0	0	0
1	Malang:										
1	Batulawang &				1	İ		1	1		
1	Tojiman	Salak	16	0	0	4	4	0	40	0	0
l	Pasuruan:				1	ļ	1				
1	Grati & Nguling	Mango	0	0	56	0	0	1 0	28	0	. 0
	Trenggalek:		<u> </u>	 -	 	· · · · · · ·	 		1	1	
1	Bendungan	Durian	92	0	0	100	100	92	12	0	0
	Lomajang:	17011411	1	 	1 -		+:::	 	1	<u> </u>	ļ
1	Ronoyoso	Avocado &		ļ	1	ļ					
	Konoyoso	Banana	52	0	28	56	8	0	20	0	0
4.	SOUTH	Dankud	32	<u> </u>	1 20	1 30	 	 	1 20	├	├ <u>ॅ</u> -
4.	SULAWESI	1	Í	1	İ	1			Į.		1
	ì						1			Ì	
	Jeneponto:	Manaa	0	0	72	0	0	0	0	0	28
1	Bangkala	Mango	<u> </u>	 	12		+ ۲	ا	 '	1 0	20
	Sinjai:] _	1	20	48
	West Sinjai	Marquisa	52	100	0	0	0	0	0	20	48
	Lowo:			1 .		1 .	_				
	Masamba	Rambutan	52	0	28	0	8	0	0	100	48
	Tanah Toraja:				1	1					
	Mangkudeh	Mangosteen	76	60	72	48	36	88	36	<u> </u>	<u> </u>

Table G-2-8 Major Premise to be Active in Fruit Production

7	المساومة في المواقعة المساومة المساومة والمواقعة المساومة والمواقعة والمواقعة والمساومة والمساومة والمساومة وا والمساومة والمساومة	Target	Ranking								
No.	District/Subdistrict	Fruit	lst	2nd	3rd	4th					
			(name)	(name)	(name)	(name)					
1	NORTH SUMATRA										
	Langkat:	Rambutan	market av'lble		land suitability	toan fund					
	Setabat	Rambutan	market av'ble	extension av'bl	land suitability	toan fund					
	Binjai										
	Karo:										
		•	land suit'lity		extension av'ble	others					
	Barus Jahe		land suit'lity	market av'ble	extention av'ble	other					
2	WEST JAVA		land suitability	available training	available market	available loan					
	Purwakarta:	Mangosteen									
	Wanayasa			ļ							
	Majatengka:		available	available	land suitability						
	Kertajati	Mango	market	extension and							
				fund							
	Ciamis:			l	available training						
	Sukadana	Duku	land suitability	available market		<u></u>					
3.	EAST JAVA) 1 · C · · · 4] 	avarlest or 'bla	others					
	Mojokerto:	Banana	loab fund	land suitability	market av'ble	others					
	Godang										
	Malang:		land suitability	avadest outhla	loan fund	extension					
1	Batulawang & Tojiman	Sarak	loan fund	others	fogu tuno	CATCHSION					
1	Pasuruan:	Manaa	ioan iung	others	•						
	Grati & Nguling	Mango	land suitability	extension av'ble	others						
1	Trenggalek:	Durian	iano sunaouny	exicusion av oic	omers						
	Bendungan	Avocado &	land suitability	market av'ble	extension av'ble	others					
	Lumajang: Ronoyoso	Banana	iano sunaunity	market ar the	CAUCIONON AT DIC						
4.	SOUTH SULAWESI	Danaisa		 							
4.	Jeneponto:	Mango	market av'ble	extension av'ble	toan fund	land suitability					
	Bangkala	1,,,,,,,									
	Sinjai:	 	land suitability	/ training and	others						
	West Sinjai	Marquisa	loan fund/	extension	1						
			marketing								
	Luwu:	1	land suitability	marketing	training and	others					
	Masamba	Rambutan	ĺ	system	extension	<u> </u>					
	Tanah Toraja:		training and	land suitability	loan fund	others					
	Mangkudeh	Mangosteen	extension/								
			marketing	Į		<u> </u>					

Table G-2-9 Average of Farmers' Experience on Target Fruit Crops (Years)

No.	District/ Subdistrict	Target Fruit	Durian	Marquisa	Mango	Avocado	Duku	Mangos- teen	Salak	Ram- butan	Banana
1	NORTH										
	SUMATRA									1	
	Langkat:		•				ĺ				
	•	Rambutan					1]		3.66	į.
		Rambutan								8.24	
1	Karo:	<u> </u>							<u> </u>		
	Simpang Empat	Marquisa		6.7							
		Marquisa		6							
2	WEST JAVA								1		
	Purwakarta:										
	Wanayasa	Mangosteen						16.68		ļ	
	Majalengka:	<u> </u>		l	1	 	<u> </u>	 		 	
		Mango			2						
li .	Ciamis:	<u>-</u> -		<u> </u>		<u> </u>			 	 	
	Sukadana	Doku					4.32		1	1	
3.	EAST JAVA				<u> </u>			<u> </u>	† 		
, '`	Mojokerto:	Banana					1	1		Į	4.4
	Godang	Disk.								Ì	ļ .
1	Malang:			 	1	 	 	 	 	 	
	Batulawang &				1	<u> </u>					
	Tojiman	Salak				1	1		6.7		
	Pasuroan:		1			<u> </u>	1		1		
	Grati & Nguling	Mango			4.7	1					
1	Trenggalek:				1			<u> </u>	1	1	ļ
ľ	Bendungan	Durian	0			<u> </u>			Ì	1	
	Lumajang:		1		 	1	1		† · · · ·	 	
Ì	Ronoyoso	Avocado &				1		Į.			1
I	,	Banana	l	1	1	13.4			1	1	
4.	SOUTH		1	1	1	<u> </u>			1	1	
	SULAWESI	Mango			0.72	1		1			
	Jeneponto:		1					1			
	Bangkala	l	1		1						
	Sinjai:	1				1					
	West Sinjai	Marquisa	1	11.6							1
	Luwu:		T							1	1
	Masamba	Rambutan				}		1		6.5	
	Tanah Toraja:		1	1						1	1
	Mangkudeh	Mangosteen	1		_1.	1	\perp	4.32		1	

Table G-3-1 Rural Population 10 years of Age and over who Worked by Main Industry in Four Provinces, 1995

Main	North St	umatra	West	Java	East J	ava	South S	ulawesi
Industry	Male	Female	Male	Female	Male	Female	Male	Female
Agriculture, Hunting,	1205901	561510	2577063	1157445	3982496	2149729	1028450	293627
Forestry, Fishery	(73.91)	(78.52)	(42.00)	(37.91)	(58.15)	(52.38)	(72.65)	(54.99)
Mining and Quarrying	6823	1514	77326	5823	80994	18539	7175	1538
	(0.42)	(0.12)	(1.28)	(0.25)	(1.18)	(0.45)	(0.51)	(0.29)
Manufacturing	77584	48948	679053	566334	698604	629790	63500	59074
	(4.75)	(4.00)	(11.22)	(24.00)	(10.20)	(15.34)	(4.48)	(11.06)
Electricity, gas, water	2969	1307	16270	2230	12188	2145	1438	272
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(0.18)	(0.11)	(0.27)	(0.10)	(0.18)	(0.05)	(0.10)	(0.05)
Construction	53198	2696	6932558	7331	454577	6641	32943	180
	(3.26)	(0.22)	(11.40)	(0.32)	(6.64)	(0.16)	(2.33)	(0.03)
Whole sale and retails trade,	102777	116571	933906	621272	617854	965592	98327	111256
restaurant, and hotels	(6.30)	(9.53)	(13.21)	(27.00)	(9.02)	(23.53)	(6.94)	(20.83)
Transportation, storage and	61576	985	49020	3743	322762	7270	51128	
communication	(3.77)	(0.07)	(8.13)	(0.10)	(4.71)	(0.18)	(3.61)	(0.06)
Finances, insurances,	965	1085	3743	19244	27935	5604	609	0
property and business service	(0.06)	(0.09)	(0.10)	(0.32)	(0.41)	(0.14)	(0.04)	(0.00)
Community, social, personal		88543	735271	234966	651066	319002	132311	67787
and other services	(7.35)	(7.34)	(12.17)	(10.00)	(9.51)	(7.77)	(9.34)	(12.69)
Others	0	0	0	0	1	0	0	0
Total	1631629	1223050	6841409	2293638	6848476	•	l.	i
	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Source: Biro Pusat Statistik, Stastical Profile of Women, Mother and Children in Indonesia, 1994; and Population Survey 1995, series 32.02, 32.10, 32.13, and 32.24

Table G-3-2 Working Population in Agriculture Sector (10 years old and over), 1995

	Descriptor / Distains	Domitation	Total workers	in all Industry	Total workers	in Agriculture
	Province / District	Population	Rural Male	Rural Female	Rural Male	Rural Female
1.	NORTH SUMATRA					
	Dairi	291,253	69422	67980	59740	62315
	Tapanuli Tengah	238,659	44916	41192	33060	33820
	Tapanuli Utara	713,015	146287	161952	120018	40021
	Tapanuli Selatan	1,053,056	221760	203520	185920	78240
	Karo	274,256	58580	61480	47328	54636
	Langkat	856,419	198896	109368	134664	73160
	Total 6 districts	3,429,658	739,861	645,492	580,730	342,192
L	Total whole Province	11,114,667	1,631,629	1,223,090	1,205,901	561,510
2.	WEST JAVA					
	Bandung	3,383,233	426384	154980	156492	73322
	Ciamis	1,536,347	392896	211008	146048	112000
	Bogor	4,415,195	387920	107424	117122	27602
	Sumedang	860,101	220248	99498	87262	49588
	Tasikmalaya	1,869,619	404297	207450	168265	130463
i	Total 5 districts	12,064,495	1,831,745	780,360	675,189	392,975
	Total whole Province	39,206,787	6,841,409	2,294,638	2,577,063	1,157,445
3.	EAST JAVA					
	Lumajang	936,289	218872	129767	133532	84336
	Jombang	1,083,994	194304	105072	80784	40656
	Tulungagung	906,587	190617	134277	101099	52897
	Trenggalek	646,054	190800	140450	134090	67045
	Pasuruan	1,267,328	279840	187616	121440	101024
	Malang	2,331,018	545112	219852	314766	140499
	Total 6 districts	7,171,270	1,619,545	917,034	885,711	486,547
L	Total whole province	33,844,002	6,848,476	4,104,312	3,982,496	2,149,729
4.	SOUTH SULAWESI					
	Gowa	469,310	102872	36190	58674	23562
	Soppeng	228,846	52173	18972	38223	8649
	Sidendreng Rappang	244,662	50496	17472	34944	8256
	Majene	114,596	20102	10488	15656	5966
	Bone	613,819	144076	39639	116564	13937
	Maros	259,638	48590	14534	2 8982	5848
	Wajo	364,155	72447	31980	55719	8733
	Tana Toraja	377,938	82611	35346	72473	31510
1	Polewali Mamasa	420,719	80041	52793	63273	33012
	Mamuju	237,789	62390	28135	49980	20570
1	Enrekang	153,483	36180	14742	30132	9990
1	Pinrang	312,185	65520	23517	53352	12285
	Barru	152,957	30012	9455	18788	3050
	Total 13 districts	3,950,097	847,510	333,263	636,760	155,368
<u> </u>	Total whole province	7,558,368	1,415,886	534,070	1,028,450	293,627

Source: BPS, Results of Intercensanal Population, 1995

Table G-3-3 Role of Women in Various Economic Activities

Sector	Activity done by Women
Farm Management	-seed selection
	-nursery preparation
	-planting
	-weeding
	-harvesting
	-post harvesting
Estate plantation	- planting materials preparation & maintenance
-	- planting
	- crop maintenance
	- harvesting (rubber tapping, tea leaf picking etc.)
	- processing
Marine Fishery	- mending the net
Ĭ	- selling the fish
	- fish processing
	- fishing in some areas
Retailing traders	- most of this done by women
Home Handicraft	- most of this done by women
Industry	- labor with low payment

Source: Chamsiah Djamal, Membantu Suani, Mengunis Rumah Tangga: Perempuan di Sektor Informal, Perempuan Indonesia: Dulu dan Kini, 1996, page 234.

Table G-3-4 Position Trend of Women in Indonesia by Formal Jobs and by Years

Jobs	1980	1990
Professional, Technician, Manager / Director	600,000	1,100,000
Manager Position	5,000	15,000
Business Women	183,000	223,000

Source: Chrysanti Hasibuan - Sedyono, Perempuan di Sektor Formal: Kerja Ya, Karier Tidak in

Perempuan Indonesia: Dulu dan Kini, 1996, page 213

Table G-3-5 Labor Force Participation Rate by Target Province, 1995

(Unit: %)

The second secon	Url	Urban		Rural		+ Rural
Province	Female	Male	Female	Male	Female	Male
North Sumatra	40.14	77.64	66.24	85.68	55.00	82.26
West Java	37.25	79.51	43.05	88.09	40.56	84.40
East Java	48.47	80.03	57.26	90.04	54.41	86.84
South Sulawesi	34.37	72.89	36.09	87.17	35.59	83.02
Overall Indonesia	42.35	78.58	54.84	88.78	50.24	85.04

Source: Social Indicators on Women in Indonesia, 1995

Table G-3-6 Illiterate Population Rate in Four Provinces (10 years old and over) , 1995

(Unit: %)

Province	Urb	Urban		Rural		- Rural
<u>.</u>	Female	Male	Female	Male	Female	Male
North Sumatra	4.51	1.38	9.55	3.85	7.43	2.83
West Java	8.5	3.56	18.39	8.73	14.2	6.52
East Java	15.8	5.45	34.9	16.81	28.2	13.19
South Sulawesi	11.7	6.6	26.28	19.36	22.2	15.76
Overall Indonesia	10.41	3.82	23.25	11.52	18.6	8.74

Source: Social Indicators on Women in Indonesia, 1995

Table G-3-7 Working Hour per day of Wife and Husband and Percentage of Responsibility in Making Decision of Farming Activity

		The second of th	Workir		Decisio	on Making
No.	District / Subdistrict	Proposed Fruit	Wife	Husband	Wife	Husband
		,	(hour / day)	(hour / day)	(%)	(%)
1.	Langkat:					
	Setabat	Rambutan	8.08	10.8	40	60
	Binjai	Rambutan	8.29	8.52	40	60
2.	Karo:					
	Simpang Empat	Marquisa	7.18	11.96	30	70
	Barus Jahe	Marquisa	10.46	12.68	30	70
3.	Purwakarta:					
	Wanayasa	Mangosteen	10.7	13.06	33.8	65.2
4.	Majalengka:					
	Kertajati	Mango	7	7	100	100
5.	Ciamis:					
	Sukadana	Doku	6.48	11.04	30	70
6.	Mojokerto:					
	Godang	Banana	5.04	9.5	44	56
7.	Malang:					
	Batulawang & Tojiman			<u> </u>		
		Salak	11.58	8.18	36	64
8.	Pasuruan:		ļ.			
	Grati & Nguling	Mango	16.3	15.56	44	56
9.	Trenggalek:			ļ		
	B endungan	Ducian	7.38	11.5	30	70
10.	Lumajang:					Į.
	Ronoyoso	Avocado &				1
		Banana	3.48	6.26	30	70
11.	Jeneponto:					
<u> </u>	Bangkala	Mango	7.6	12	30	70
12.	Sinjai:	Marquisa	4.04	8.72	46	54
	West Sinjai					
13.	Luwu:					
ļ	Masamba	Rambutan	7.55	9.89	76	24
14.	Tanah Toraja:			ł		
<u> </u>	Mangkudeh	Mangosteen	3.2	5	64	36

Table G-3-8 Comparison of Average Monthly Salary 1995

(Unit: Rp.)

Jobs	Female worker	Male worker
Professional, Technician, Manager / Director	155,564	203,934
Farm worker	11,362	22,625
University Graduate	85,840	128,038

Source: Chrysanti Hasibuan - Sedyono, Perempuan di Sektor Formal: Kerja Ya, Kwier Tidek in Perempuan Indonesia: Dalu dan Kini, 1996, page 213

Table G-3-9 Infant Mortality Rate (IMR) by Four Provinces, 1995

(Unit: %)

		T 1994			1995		
Province	Female	Male	Total	Female	Male	Total	
North Sumatra	45	58	51	44	57	50	
West Java	62	76	69	60	74	66	
East Java	46	58	52	44	57	50	
South Sulawesi	49	61	55	47	59	53	
Overall Indonesia	50	63	57	49	61	55	

Source: Social Indicator on Women in Indonesia, 1995

Table G-3-10 Population Rate Well Nourished in Four Provinces (5 years old and over), 1995

(Unit: %)

	Urb	Urban		Rural		+ Rural
Province	Female	Male	Female	Male	Female	Male
North Sumatra	68.34	59.62	63.86	59.72	65.57	59.68
West Java	74.57	67.07	66.34	61.22	69.46	63.40
East Java	75.95	65.93	64.07	60.07	67.64	61.87
South Sulawesi	70.08	60.96	61.86	54.42	64.16	56.15
Overall Indonesia	72.30	65.33	64.07	58.89	66.77	61.00

Source: Social Indicator on Women in Indonesia, 1995

Table G-3-11 Expected Life (years) in Four Provinces, 1995

Province		1994			1995		
	Female	Male	Total	Female	Male	Total	
North Sumatra	n.a	n.a	n.a	66.42	63.00	64.56	
West Java	n.a	n.a	n.a	62.59	58.93	60.81	
East Java	n.a	n.a	n.a	66.42	62.60	64.56	
South Sulawesi	n.a	n.a	n.a	65.75	61.95	63.90	
Overall Indonesia	n.a	n.a	n.a	65.31	61.54	63.48	

Source: Social Indicator on Women in Indonesia, 1995,

n.a = data not available

Table G-3-12 Percentage of Farmers' participation in Social Interaction at Rural Community Level

No.	District Subdistrict	Target Fruit	Participation in Farmers' Group	Participation in " Arisan"	One week Participation in Religious ritual (%)
1,	Langkat:				
	Setabat	Rambutan	96	16	76
	Binjai	Rambutan	100	40	88
2.	Karo:				
	Simpang Empat	Marquisa	100	100	100
	Barus Jahe	Marquisa	100	100	100
3.	Purwakarta:				
	Wanayasa	Mangosteen	100	44	88
4.	Majalengka:		1		
	Kertajati	Mango	100	100	84
5.	Ciamis:				
	Sukadana	Duku	100	72	44
6.	Mojokerto:				
	Godang	Banana	100	92	100
7.	Malang:				
	Batulawang &				
	Tojiman	Salak	100	72	100
8.	Pasuruan:				
	Grati & Nguling	Mango	72	92	24
9.	Trenggalek:				
	Bendungan	Durian	100	80	100
10.	Lumajang:				
	Ronoyoso	Avocado &			
		Banana	92	40	76
11.	Jeneponto:				
	Bangkala	Mango	100	8	48
12.	Sinjai:	Marquisa	100	0	25
	West Sinjai				
13.	Luwu:				
<u>l</u> i	Masamba	Rambutan	100	52	16
14.	Tanah Toraja:				
	Mangkudeh	Mangosteen	100	96	100

Table G-3-13 Spending Behavior of Family

No.	District/Subdistrict	Target Fruit	Going to buy consumption items (%)	Going to buy production items (%)	Remarks
1.	Langkat: Setabat	Rambutan	28	72	
	Binjai	Rambutan	100	0	
2.	Karo:			_	
	Simpang Empat	Marquisa	96	4	
	Barus Jahe	Marquisa	4	96	
3.	Purwakarta:				
	Wanayasa	Mangosteen	96	4	
4.	Majalengka:				
	Kertajati	Mango	100	0	
5.	Ciamis:				
	Sukadana	Duku	100	0	
6.	Mojokeito:				
	Godang	Banana	0	3	l
7.	Malang:				
	Batulawang &				
	Tojiman	Salak	0	12	
8.	Pasuruan:				
	Grati & Nguling	Mango	3	11	
9.	Trenggalek:				
	Bendungan	Durian	25	0	
10.	Lumajang:				
	Ronoyoso	Avocado &	1	ŀ	
		Banana	22	3	
11.	Jeneponto:				
L	Bangkala	Mango	100	0	
12.	Sinjai:	Marquisa	64	36	
<u> </u>	West Sinjai		1		
13.	Luwu:				
	Masamba	Rambutan	88	12	<u>i </u>
14.	Tanah Toraja:				
	Mangkudeh	Mangosteen	76	4	<u> </u>

Table G-4-1 Number of Existing Farmers' Groups and KUDs in Four Provinces

		Food			
No.	Province/District	Farmers Women		Youth Farmers	KUD
		Group	Group	Group	
[NORTH SUMATERA				
:	Dairi	649	16	5	25
	Tapanuli Tengah	667	214	120	5
	Tapanuli Utara	1,998	86	31	19
	Tapanuli Selatan	2,353	683	558	90
	Каго	816	816	327	35
	Langkat	1,315	444	319	34
	Total 6 districts	7,798	2,259	1,360	208
	Total whole Province	14,225	2,789	2,185	581
2	WEST JAVA				
1	Bandung	2,720	268	186	46
	Ciamis	2,624	562	168	47
	Bogor	2,400	734	387	46
	Sumedang	1,312	263	132	28
]	Tasikmalaya	1,996	234	224	45
	Total 5 districts	11,052	2,061	1,097	212
	Total whole Province	35,513	4,295	2,766	758
3.	EAST JAVA				
	Lumajang	1,120	4	19	29
	Jombang	1,310	68	84	27
	Tulungagung	962	39	29	20
	Trenggalek	547	24	19	13
	Pasuruan	1,715	44	112	29
	Malang	1,418	0	0	34
ļ	Total 6 districts	7,072	179	263	152
	Total whole province	38,394	2,781	2,757	750
4	SOUTH SULAWESI	_			
ļ	Gowa	776	n.a	n.a	30
	Soppeng	317	n.a	n.a	29
	Sidendreng Rappang	471	n.a	n.a	25
	Majene	172	n.a	n.a	11
	Bone	1,280	n.a	n.a	39
	Maros	452	n.a	n.a	15 15
	Wajo Tono Tonois	317	n.a	n.a	18
	Tana Toraja	442 785	n.a	n.a	29
	Polewali Mamasa Mamuju	783 651	n.a	n.a	60
1	Enrekang	285	n.a n.a	n.a n.a	9
	Pinrang	593	n.a n.a	n.a	33
I	Barru	225	n.a	n.a	17
1	Total 13 districts	6,766	n.a	n.a	330
	Total whole province	10,983			531
<u> </u>	Total whole province	10,703	n.a	n.a	331

Sources: Dinas Pertanian Tanaman Pangan dan Hortikultura, North Sumatera, 1997; Dinas Pertanian Tanaman Pangan dan Hortikultura, West Java, 1997; Dinas Pertanian Tanaman Pangan dan Hortikultura, East Java, 1997; and Dinas Pertanian Tanaman Pangan dan Hortikultura, South Sulawesi, 1997

Table G-4-2 Average Land Holding Size and Area Possible to be Converted for Fruit Growing

	District/	Proposed	Average of Total Land, include	Average Lands that Possible to convert into Fruit Area per Household			
No.	Subdistrict	Froit	Inigated Wet	Upland	Estate Land	Rainfed land	Total
			land Paddy	·	ł	ì	(Ha)
			(Ha)	(Ha)	(Ha)	(Ha)	(113)
1.	NORTH					1	
	SUMATERA			ļ			
	Langkat:				0.04	0.72	0.95
	Setabat	Rambutan	1.13	0.18	0.06	0.72	2.74
	Binjai	Rambutan	2.91	0,64	0.80	1.30	2.74
	Karo:				0.00	0	1.97
		Marquisa	2.02	1.90	0.07	0	
	Barus Jahe	Marquisa	1.53	1.23	0.05	0	1.28
2.	WEST JAVA					1	
	Purwakarta:				2.60		0.77
	Wanayasa	Mangosteen	0.98	0.04	0.60	0.13	0.77
	Majalengka:				0.03	0.26	0.57
	Kertajati	Mango	1.06	0.29	0.03	0.26	0.57
]	Ciamis:			0.00	0.70	0.06	0.91
.	Sukadana	Duku	1.08	0.08	0.78	0.00	0.51
3.	EAST JAVA						
	Mojokerto:]		0.60	_	0	0.50
	Godang	Вавала	0.96	0.50	0	'	00
	Malang:	i	2.20	D. C.O.	0.78	0.04	1.46
		Salak	2.70	0.68	0.78	0.04	1.40
	Tojiman	İ	ł				
	Pasuruan:	\ .,	1.26	0.16	0	0.49	0.65
	Grati & Nguling	Mango	1.36	V, 10	\	0.17	0.00
	Trenggalek:	D :	1.07	0.70	0.09	0.16	0.79
i	Bendungan	Durian	1.07	0.70] 0.07	0.10	,
I	Lumajang: Ronoyoso	Avocado &			1]
	Konoyoso	Banana	0.72	0.72	0	0	0.72
1	SOUTH	Daniella		+	1		
4.	SOUTH	ł		\			
	Jeneponto:	-	Ì	1	1		1
	Bangkala	Mango	0.74	0.06	0.68	0	0.74
	Sinjai:	1]	1	1]
	West Sinjai	Marquisa	1.64	0.64	0.70	0	1.34
	Luwu:	1		ł.	1		
-	Masamba	Rambutan	2.26	0.33	0.73	0.06	1.12
	Tanah Toraja:			1			
-	Mangkudeh	Mangosteer	a 3.46	0.28	1.62	0.56	2.46

Table G-4-3 Ownership of Land in Four Provinces

No.	District/ Subdistrict	Proposed Fruit	Total Land Documents (pieces)	Ownership Title Certificate (%)	Buy without Certificate (%)	Belong to Parent (%)
1	Langkat:					
1	Setabat	Rambutan	38	5.6	5.6	41.7
	Binjai	Rambutan	47	23.4	51.3	8.5
2	Karo:					
	Simpang Empat	Marquisa	20	0	10.0	90.0
	Barus Jahe	Marquisa	38	1.0	1.0	21.0
3	Purwakarta:					
	Wanayasa	Mangosteen	39	25.6	18.1	25.6
4.	Majalengka:			1		
	Kertajati	Mango	43	69.9	0	13.9
5	Ciamis:					
	Sukadana	Đuku	38	11.2	26.0	7.8
6.	Mojokerto:	Ì				
	Godang	Banana	50	36.0	80.0	0
7.	Malang:	l				
	Batulawang &	Salak	70	10.0	5.7	22.9
	Tojiman					
8.	Pasuruan:	.,	20	26.0	40.0	40.0
	Grati & Nguling	Mango	38	36.0	48.0	40.0
9.	Trenggalek:] _B	60		2.0	26.0
	Bendungan	Durian	50	10.0	2.0	36.0
10.	Lumajang:	Avocado &			<u>l</u>	
	Ronoyoso	Banana	38	0	0	100.0
11.	Ianananta:	Danana	,0	 	 	100.0
11.	Jeneponto: Bangkala	Mango	29	0	6.9	93.1
12.	Sinjai:	inango	 		0.7	7.7.1
12.	West Sinjai	Marquisa	20	0	0	5.0
13	Luwu:	Triul qui sa		 		3.0
1.,	Masamba	Rambutan	52	25.0	1.9	65.0
14.	Tana Toraja:	Tanioutuit	<u> </u>		† · · · · · · ·	33.0
'	Mangkudeh	Mangosteen	67	14.9	0	38.8

Table G-4-4 Total Number of Food Crop Extension Workers (PPS & PPL) and NGO

	Province / District	PPS	PPL	NGO-Rural oriented
1.	NORTH SUMATERA			60
	Dairi	5	44	
	Tapanuli Tengah	5 3 5	40	
	Tapanuli Utara	5	212	
	Tapanuli Selatan	11	163	
	Karo	4	31	
ļ	Langkat	6	97	
ŀ	Total 6 districts	34	587	
	Total whole Province	96	1127	60
2	WEON LAVA	6	156	17
2.	WEST JAVA	5 5 3	156	17
	Bandung		178	
	Ciamis	5	122	
	Bogor	_	0.1	
	Sumedang	5 5	81	
	Tasikmalaya		116	
	Total 5 districts	23	653	
 	Total whole Province	98	2,310	17
3.	EAST JAVA	_		
	Lumajang	7	54	17
	Jombang	10	57	
	Tulungagung	4	51	
	Trenggalek	4 3	30	
	Pasuruan		64	
	Malang	11	74	
	Total 6 districts	39	330	
<u>L</u>	Total whole province	150	1557	17
4.	SOUTH SULAWESI			
	Gowa	2	122	27
l	Soppeng	2	71	
	Sidendreng Rappang	2 2 3 3 4 2	92	
	Majene	3	44	
	Bone	4	211	
	Maros		102	
	Wajo	4	103	
1	Tana Toraja	2	80	
	Polewali Mamasa	4	161	
	Mamuju	2	76	İ
li	Enrekang]	58	
1	Pinrang	2	125	
	Barro	0	60	
	Total 13 districts	31	1305	
<u></u>	Total whole province	106	2008	27

Source: Dinas Pertanian Tanaman Pangan dan Hortikultura, North Sumatera,

West Java, East Java, South Sulawesi, 1997

Direktorat Sosial Politik Pemda North Sumatera, West Java, East Java, and South Sulawesi, 1997

Table G-5-1 Case of Rural Extension Program by Private Institution

	Nature of Service		Fe	e	Consultant Assessment	
Name of NGO/ Agency	Location	Modes of operation	Fee paid by	Beneficiary's opinion	Stage of process	Sustainbility
Yayasan Mitra Desa	North Sumatera		Rp.20/kg, paid by farmers own the cabbage	Happy with this service	Beginning stage	Promising
LAPPSEM	South Sulawesi	water management and water fee collection	1.5% of Total Consultant fee, paid by Government Project	No different activities with PPL and Mantri Air activities	3 Years being process	Questionable when the project is terminated
Yayasan Mandiri	West Java	To link the Farmers and Bank		No different activities with PPL and Mantri Air activities	has been practices at least 2 years	Questionable if the Project is terminated
PT Sarana Yogya Ventura (PT. SYV)	Yogyakarta	Finance and Management in Salak "Pondoh" Export Program through cooperative	Project Profit sharing 10% profit for PT SYV 90% profit for Cooperative	Salak growers and Village Trader are happy	has been 2 years, the loan installment Rp.30 million of total loan Rp.200 million paid.	promising

Source: Field Observation to respective NGO and their Clientele, 1997/98