



Forest Department
Ministry of Forestry
The Union of Myanmar

Japan International
Cooperation Agency



**THE STUDY ON
INTEGRATED MANGROVE MANAGEMENT
THROUGH COMMUNITY PARTICIPATION
IN
THE AYEYAWADY DELTA
IN
THE UNION OF MYANMAR**

**Final Report
Volume V: Data Book**



March 2005



NIPPON KOEI CO.,LTD.

GE
JR
05-019

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INTEGRATED MANGROVE MANAGEMENT
THROUGH COMMUNITY PARTICIPATION
IN THE AYEYAWADY DELTA**

FINAL REPORT

VOLUME V: DATA BOOK

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Data book 1
*Village Tract Survey/
Village Profile Survey of the Study Area*

Village Tract Survey and Village Profile Site Survey

The Village Tract Survey and Village Profile Site Survey were executed to understand the basic socio-economic situation as well as the customs and working culture of the village communities in the study area: Kadonkani and Pyindaye Reserved Forest in Bogalay township and Kyakankwinpauk and Pyinalan Reserved Forest in Laputta township. Meinmahla Reserved Forest has no village communities residing in it.

The Village Profile survey was carried out in March 2002 by Technologies Development Group, a national research firm in Myanmar, in 11 village tracts each for the reserved forests of the two townships. It aimed to identify all villages that are located nearby or in the four reserved forests to obtain general information including geographical information of villages and major economic activities existing in the villages by key informant method; also CFI knowledge level was assessed in some selected villages. As a result, a total of 350 villages were identified, 219 villages from Bogalay township and 131 villages from Laputta township. Based on the results of Village Tract Survey, one hundred target villages which overlap, adjoin to or are located in four of four reserved forests were selected by JICA Study team. The Village Profile Site survey was conducted in these selected villages adopting group interview method and individual key informant interview using structured /semi-structured type of questionnaires.

Table 1.2 Population by Age

No.	Vlg Code	Village Name	All household	< 5 years		5 - 19 years		20 - 50 years		>50 years		Total		Female		Male	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%
82	08	Byu Chaung Gyi	141	147	21.5	219	32.1	284	41.6	33	4.8	683	100.00	318	46.6	365	53.4
83	01	Te Pin Seik	172	54	6.3	333	38.9	402	47.0	66	7.7	855	100.00	458	53.6	397	46.4
84	03	Ah Shayt Mayan	101	45	9.3	188	39.0	215	44.6	34	7.1	482	100.00	250	51.9	232	48.1
85	04	Kwin Chaung	110	92	16.7	206	37.3	220	39.9	34	6.2	552	100.00	279	50.5	273	49.5
86	11	Kyein Chaung Gyi	75	47	15.7	127	42.3	104	34.7	22	7.3	300	100.00	151	50.3	149	49.7
87	02	Ah Nauk Mayan	128	111	18.5	226	37.7	237	39.6	25	4.2	599	100.00	288	48.1	311	51.9
88	02	Lay Pin Chaung	119	120	16.8	234	32.8	343	48.1	16	2.2	713	100.00	364	51.1	349	48.9
89	06	Kan Nar Kwin	97	59	14.5	143	35.2	161	39.7	43	10.6	406	100.00	197	48.5	209	51.5
90	04	Kone)	57	50	17.3	97	33.6	109	37.7	33	11.4	289	100.00	153	52.9	136	47.1
91	08	Thar Yar Kone	24	24	14.7	77	47.2	51	31.3	11	6.7	163	100.00	78	47.9	85	52.1
92	02	Seik Ma (West)	101	55	9.8	343	61.0	110	19.6	54	9.6	562	100.00	287	51.1	275	48.9
93	03	Taw Kyoe	120	45	7.0	207	32.3	299	46.7	89	13.9	640	100.00	308	48.1	332	51.9
94	16	Ka Nyin Kone	72	22	7.0	88	28.0	193	61.5	11	3.5	314	100.00	147	46.8	167	53.2
95	07	Ma Mhwe Kwin	80	34	8.8	137	35.4	165	42.6	51	13.2	387	100.00	190	49.1	197	50.9
96	05	Oo Pait	149	70	10.2	198	28.9	351	51.2	67	9.8	686	100.00	333	48.5	353	51.5
97	12	Tha Mein Pa Le	96	117	23.8	187	38.1	109	22.2	78	15.9	491	100.00	249	50.7	242	49.3
98	05	Gaw Du	115	25	5.2	208	42.9	213	43.9	39	8.0	485	100.00	255	52.6	230	47.4
99	13	Ah Shayt Phyar	350	334	15.3	654	29.9	1157	53.0	40	1.8	2185	100.00	1081	49.5	1104	50.5
100	17	Khat Tar Kyun	113	55	11.0	156	31.2	256	51.2	33	6.6	500	100.00	274	54.8	226	45.2
Total			10,470	6,923		17,936		23,298		5,262		53,419		26,765		26,654	

Table 1.3 Population Distribution by Ethnic-group by Village

No.	Vlg Code	Village Name	All household	total populat No	Burma		Karen		Rakhaing		India		Chinese		Other	
					No	%	No	%	No	%	No	%	No	%	No	%
Kyankankwinpauk																
1	07	Kyar Kan Su	58	280	280	100.0	-	-	-	-	-	-	-	-	-	-
2	07	Na Khaung Pauk	64	282	17	6.0	-	-	265	94.0	-	-	-	-	-	-
3	03	Mi Ya Htar	101	412	404	98.1	-	-	8	1.9	-	-	-	-	-	-
4	09	Kyaung Shar	133	683	606	88.7	77	11.3	-	-	-	-	-	-	-	-
5	01	Tha Byu Kone	140	628	626	99.7	1	0.2	1	0.2	-	-	-	-	-	-
6	07	Mi Oo	38	153	153	100.0	-	-	-	-	-	-	-	-	-	-
7	07	Daunt Gyi Kone	75	339	316	93.2	-	-	-	-	23	6.8	-	-	-	-
8	08	Koe Bo (L)	122	470	470	100.0	-	-	-	-	-	-	-	-	-	-
9	12	Nyan Kwin	99	460	435	94.6	-	-	-	-	25	5.4	-	-	-	-
10	05	Myin Ka Kone	66	295	291	98.6	-	-	4	1.4	-	-	-	-	-	-
11	02	Zin Pyun Kone	73	362	217	59.9	-	-	145	40.1	-	-	-	-	-	-
12	14	Kan Thar Yar	46	210	201	95.7	9	4.3	-	-	-	-	-	-	-	-
13	12	Kanu Kamar	109	498	457	91.8	41	8.2	-	-	-	-	-	-	-	-
14	01	Sa Lu Seik	238	1,127	1,127	100.0	-	-	-	-	-	-	-	-	-	-
15	05	Kwin Thone Sint	72	334	332	99.4	2	0.6	-	-	-	-	-	-	-	-
16	01	Yway	125	579	579	100.0	-	-	-	-	-	-	-	-	-	-
17	03	Pyin Kanu Kone	105	455	455	100.0	-	-	-	-	-	-	-	-	-	-
18	06	Pyin Kanu Wah	122	589	589	100.0	-	-	-	-	-	-	-	-	-	-
Pyinalan																
19	04	Sit Kone	70	371	196	52.8	7	1.9	-	-	168	45.3	-	-	-	-
20	11	Kan Nyi Naung	68	361	3	0.8	358	99.2	-	-	-	-	-	-	-	-
21	12	Ye Twin Kone	69	449	88	19.6	361	80.4	-	-	-	-	-	-	-	-
22	17	Nga Dan Ta Ya	36	201	91	45.3	80	39.8	-	-	30	14.9	-	-	-	-
23	21	Mya Kyun Thar	43	185	94	50.8	28	15.1	63	34.1	-	-	-	-	-	-
24	22	Hngat Thihe	41	245	82	33.5	163	66.5	-	-	-	-	-	-	-	-
25	24	Ngat Kya	50	240	238	99.2	-	-	2	0.8	-	-	-	-	-	-
26	23	Gaw Thu We Chaung	61	308	242	78.6	13	4.2	-	-	53	17.2	-	-	-	-
27	25	Gaw Thu (North)	28	134	129	96.3	5	3.7	-	-	-	-	-	-	-	-
28	26	Htin Su	42	224	179	79.9	28	12.5	-	-	17	7.6	-	-	-	-
29	08	Pho Na Ko	134	776	213	27.4	563	72.6	-	-	-	-	-	-	-	-
30	03	Chan Thar Aye Kone	98	567	17	3.0	550	97.0	-	-	-	-	-	-	-	-
31	05	Nga Phone	54	283	273	96.5	10	3.5	-	-	-	-	-	-	-	-
32	17	Phayarlay	18	81	5	6.2	66	81.5	-	-	-	-	-	-	10	12.3
33	18	Sin Htwet	27	135	12	8.9	123	91.1	-	-	-	-	-	-	-	-
34	04	Ta Loke Kone	30	168	157	93.5	11	6.5	-	-	-	-	-	-	-	-
35	05	Shwe Kone	88	442	62	14.0	380	86.0	-	-	-	-	-	-	-	-
36	06	Ma Dauk Bo Kone	57	260	216	83.1	44	16.9	-	-	-	-	-	-	-	-
37	05	Lein Maw Kone	52	241	180	74.7	61	25.3	-	-	-	-	-	-	-	-
38	08	Shaw Ni	87	352	348	98.9	4	1.1	-	-	-	-	-	-	-	-
39	04	Nyaung Ta Pin	55	258	124	48.1	134	51.9	-	-	-	-	-	-	-	-
40	01	Da Ni Seik	96	388	332	85.6	52	13.4	-	-	4	1.0	-	-	-	-
41	07	Ywar Lay Chaung	93	423	364	86.1	41	9.7	18	4.3	-	-	-	-	-	-
42	03	Pain Nae Kone	336	1,744	884	50.7	860	49.3	-	-	-	-	-	-	-	-
43	07	Thar Yar Kone	61	279	17	6.1	262	93.9	-	-	-	-	-	-	-	-
44	13	Kine Thauang	404	1,910	1,910	100.0	-	-	-	-	-	-	-	-	-	-
Kadonkani																
45	07	Ka La Tan(Myt Tan)	32	142	142	100.0	-	-	-	-	-	-	-	-	-	-
46	30	Ye Win	72	355	355	100.0	-	-	-	-	-	-	-	-	-	-
47	33	Ye Kyaw Kauk	76	410	410	100.0	-	-	-	-	-	-	-	-	-	-
48	29	Myin Ka Oak	80	460	444	96.5	16	3.5	-	-	-	-	-	-	-	-
49	66	Chung)	51	270	270	100.0	-	-	-	-	-	-	-	-	-	-
50	70	Tha Bot Sa Khan	41	201	201	100.0	-	-	-	-	-	-	-	-	-	-
51	72	Aung Hlaing (Kywe Te)	35	160	160	100.0	-	-	-	-	-	-	-	-	-	-
52	20	Kyun Thar Yar	140	587	560	95.4	10	1.7	7	1.2	10	1.7	-	-	-	-
53	67	Htaik Chaung Myit Tan	49	238	238	100.0	-	-	-	-	-	-	-	-	-	-
54	49	Atwin Mayan	120	514	514	100.0	-	-	-	-	-	-	-	-	-	-
55	71	Pauk Sein Kya	61	288	280	97.2	-	-	-	-	8	2.8	-	-	-	-
56	19	Nga Pe Chaung	36	163	162	99.4	-	-	-	-	1	0.6	-	-	-	-
57	69	Hnar Gyi	79	324	324	100.0	-	-	-	-	-	-	-	-	-	-
58	01	Kadon Kani	995	5,556	5,515	99.3	3	0.1	12	0.2	26	0.5	-	-	-	-
59	03	Ywar Ka Lay*	121	925	925	100.0	-	-	-	-	-	-	-	-	-	-
60	68	Kyain Chaung Phyar	60	264	264	100.0	-	-	-	-	-	-	-	-	-	-
61	01	Aye Yar	701	3,695	3,658	99.0	5	0.1	25	0.7	7	0.2	-	-	-	-
62	02	Tauk Tar Kone	64	302	302	100.0	-	-	-	-	-	-	-	-	-	-
63	04	Shwe Sar Yan	73	304	302	99.3	1	0.3	1	0.3	-	-	-	-	-	-
64	05	Kwin	23	77	76	98.7	1	1.3	-	-	-	-	-	-	-	-
65	09	Kywe Phyu	71	316	312	98.7	3	0.9	1	0.3	-	-	-	-	-	-
66	73	Aing Gyi Kwin	41	211	196	92.9	-	-	15	7.1	-	-	-	-	-	-
Pyindaye																
67	30	Asi Lay	70	404	344	85.1	60	14.9	-	-	-	-	-	-	-	-
68	22	War Kwin	25	130	130	100.0	-	-	-	-	-	-	-	-	-	-
69	16	Nga Pha Chaung	116	580	575	99.1	5	0.9	-	-	-	-	-	-	-	-
70	17	Kyun Thit Su	48	215	185	86.0	30	14.0	-	-	-	-	-	-	-	-
71	18	Ywar Thar Aye*	70	280	254	90.7	23	8.2	-	-	-	-	3	1.1	-	-
72	19	Koe La Tar	78	370	354	95.7	-	-	-	-	16	4.3	-	-	-	-
73	21	Ngote Chaung	55	340	334	98.2	6	1.8	-	-	-	-	-	-	-	-
74	32	Sar Oh Chaung	56	345	325	94.2	20	5.8	-	-	-	-	-	-	-	-
75	29	Taung Ywar Chaung	94	595	595	100.0	-	-	-	-	-	-	-	-	-	-
76	03	Auk seik Kwin	146	1,137	3	0.3	1,133	99.6	1	0.1	-	-	-	-	-	-
77	09	Wave Saing)	62	347	347	100.0	-	-	-	-	-	-	-	-	-	-
78	10	War Win)	135	861	802	93.1	59	6.9	-	-	-	-	-	-	-	-
79	12	Htup Koe/Kwin Chaung	162	827	752	90.9	69	8.3	-	-	-	-	6	0.7	-	-
80	04	Hnit Char	82	510	485	95.1	25	4.9	-	-	-	-	-	-	-	-
81	03	Thaing Chaung Gyi	46	243	239	98.4	-	-	-	-	4	1.6	-	-	-	-
82	08	Byu Chaung Gyi	141	683	668	97.8	15	2.2	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	172	855	855	100.0	-	-	-	-	-	-	-	-	-	-
84	03	Ah Shayt Mayan	101	482	480	99.6	-	-	2	0.4	-	-	-	-	-	-

Table 1.3 Population Distribution by Ethnic-group by Village

No.	Vlg Code	Village Name	All household	total population No	Burma		Karen		Rakhaing		India		Chinese		Other	
					No	%	No	%	No	%	No	%	No	%	No	%
85	04	Kwin Chaung	110	552	487	88.2	65	11.8	-	-	-	-	-	-	-	-
86	11	Kyein Chaung Gyi	75	300	159	53.0	140	46.7	1	0.3	-	-	-	-	-	-
87	02	Ah Nauk Mayan	128	599	509	85.0	90	15.0	-	-	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	713	-	-	706	99.0	7	1.0	-	-	-	-	-	-
89	06	Kan Nar Kwin	97	406	373	91.9	20	4.9	13	3.2	-	-	-	-	-	-
90	04	Kone)	57	289	16	5.5	273	94.5	-	-	-	-	-	-	-	-
91	08	Thar Yar Kone	24	163	163	100.0	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	101	562	562	100.0	-	-	-	-	-	-	-	-	-	-
93	03	Taw Kyoe	120	640	636	99.4	4	0.6	-	-	-	-	-	-	-	-
94	16	Ka Nyin Kone	72	314	234	74.5	60	19.1	20	6.4	-	-	-	-	-	-
95	07	Ma Mhwe Kwin	80	387	387	100.0	-	-	-	-	-	-	-	-	-	-
96	05	Oo Pait	149	686	674	98.3	2	0.3	10	1.5	-	-	-	-	-	-
97	12	Tha Mein Pa Le	96	491	441	89.8	48	9.8	2	0.4	-	-	-	-	-	-
98	05	Gaw Du	115	485	484	99.8	1	0.2	-	-	-	-	-	-	-	-
99	13	Ah Shayt Phyar	350	2,185	2,185	100.0	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	500	500	100.0	-	-	-	-	-	-	-	-	-	-
Total			10,470	53,419	45,158		7,227		623		392		9		10	

Table 1.4 Population Distribution by Level of Education by Village

No.	Vlg Code	Village Name	All household	Total population		Monastic S.		Primary S.		Middle S.		High S.		College S.		None	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%
82	08	Byu Chaung Gyi	141	683	100.0	202	29.6	219	32.1	18	2.6	-	-	-	-	97	14.2
83	01	Te Pin Seik	172	855	100.0	518	60.6	241	28.2	30	3.5	7	0.8	5	0.6	-	-
84	03	Ah Shayt Mayan	101	482	100.0	50	10.4	363	75.3	22	4.6	2	0.4	-	-	-	-
85	04	Kwin Chaung	110	552	100.0	183	33.2	174	31.5	50	9.1	6	1.1	2	0.4	45	8.2
86	11	Kyein Chaung Gyi	75	300	100.0	90	30.0	113	37.7	-	-	-	-	-	-	50	16.7
87	02	Ah Nauk Mayan	128	599	100.0	156	26.0	331	55.3	1	0.2	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	713	100.0	-	-	592	83.0	-	-	-	-	1	0.1	-	-
89	06	Kan Nar Kwin	97	406	100.0	215	53.0	81	20.0	-	-	-	-	-	-	51	12.6
90	04	Kone)	57	289	100.0	3	1.0	220	76.1	13	4.5	2	0.7	1	0.3	-	-
91	08	Thar Yar Kone	24	163	100.0	-	-	117	71.8	-	-	-	-	-	-	22	13.5
92	02	Seik Ma (West)	101	562	100.0	30	5.3	450	80.1	11	2.0	14	2.5	2	0.4	-	-
93	03	Taw Kyoe	120	640	100.0	45	7.0	545	85.2	4	0.6	1	0.2	-	-	-	-
94	16	Ka Nyin Kone	72	314	100.0	11	3.5	279	88.9	-	-	1	0.3	1	0.3	-	-
95	07	Ma Mhwe Kwin	80	387	100.0	46	11.9	288	74.4	2	0.5	1	0.3	-	-	16	4.1
96	05	Oo Pait	149	686	100.0	280	40.8	308	44.9	5	0.7	-	-	-	-	23	3.4
97	12	Tha Mein Pa Le	96	491	100.0	40	8.1	305	62.1	8	1.6	-	-	-	-	21	4.3
98	05	Gaw Du	115	485	100.0	316	65.2	112	23.1	25	5.2	4	0.8	3	0.6	-	-
99	13	Ah Shayt Phyar	350	2185	100.0	50	2.3	1764	80.7	20	0.9	7	0.3	10	0.5	-	-
100	17	Khat Tar Kyun	113	500	100.0	20	4.0	400	91.0	20	4.0	5	1.0	-	-	-	-
	Total		10,470	53,419		10,403		28,015		3,278		488		234		4,078	

Table 1.5 Distribution of Households by Income-Range by Villag

No.	Vlg Code	Village Name	All household	Income					
				Less than 100,00 kyats		100,000 to 300,000 kyats		300,000 kyats & above	
				No	%	No	%	No	%
Kyakankwinpauk									
1	07	Kyar Kan Su	58	-	-	56	96.6	2	3.4
2	07	Na Khaung Pauk	64	41	64.1	13	20.3	10	15.6
3	03	Mi Ya Htar	101	-	-	61	60.4	40	39.6
4	09	Kyaung Shar	133	73	54.9	40	30.1	20	15.0
5	01	Tha Byu Kone	140	-	-	128	91.4	12	8.6
6	07	Mi Oo	38	-	-	28	73.7	10	26.3
7	07	Daunt Gyi Kone	75	43	57.3	20	26.7	12	16.0
8	08	Koe Bo (L)	122	-	-	102	83.6	20	16.4
9	12	Nyan Kwin	99	47	47.5	36	36.4	16	16.2
10	05	Myin Ka Kone	66	49	74.2	10	15.2	7	10.6
11	02	Zin Pyun Kone	73	39	53.4	20	27.4	14	19.2
12	14	Kan Thar Yar	46	17	37.0	15	32.6	14	30.4
13	12	Kanu Kamar	109	58	53.2	31	28.4	20	18.3
14	01	Sa Lu Seik	238	125	52.5	75	31.5	38	16.0
15	05	Kwin Thone Sint	72	24	33.3	31	43.1	17	23.6
16	01	Yway	125	8	6.4	82	65.6	35	28.0
17	03	Pyin Kanu Kone	105	60	57.1	38	36.2	7	6.7
18	06	Pyin Kanu Wah	122	6	4.9	113	92.6	3	2.5
Pyinalan									
19	04	Sit Kone	70	-	-	60	85.7	10	14.3
20	11	Kan Nyi Naung	68	-	-	60	88.2	8	11.8
21	12	Ye Twin Kone	69	1	1.4	63	91.3	5	7.2
22	17	Nga Dan Ta Ya	36	-	-	26	72.2	10	27.8
23	21	Mya Kyun Thar	43	-	-	33	76.7	10	23.3
24	22	Hngat Thike	41	-	-	32	78.0	9	22.0
25	24	Ngat Kya	50	3	6.0	41	82.0	6	12.0
26	23	Gaw Thu We Chaung	61	3	4.9	51	83.6	7	11.5
27	25	Gaw Thu (North)	28	-	-	26	92.9	2	7.1
28	26	Htin Su	42	4	9.5	35	83.3	3	7.1
29	08	Pho Na Ko	134	4	3.0	90	67.2	40	29.9
30	03	Chan Thar Aye Kone	98	68	69.4	15	15.3	15	15.3
31	05	Nga Phone	54	29	53.7	20	37.0	5	9.3
32	17	Phayarlay	18	11	61.1	3	16.7	4	22.2
33	18	Sin Htwet	27	20	74.1	5	18.5	2	7.4
34	04	Ta Loke Kone	30	20	66.7	5	16.7	5	16.7
35	05	Shwe Kone	88	25	28.4	55	62.5	8	9.1
36	06	Ma Dauk Bo Kone	57	32	56.1	15	26.3	10	17.5
37	05	Lein Maw Kone	52	40	76.9	9	17.3	3	5.8
38	08	Shaw Ni	87	60	69.0	17	19.5	10	11.5
39	04	Nyaung Ta Pin	55	34	61.8	11	20.0	10	18.2
40	01	Da Ni Seik	96	71	74.0	15	15.6	10	10.4
41	07	Ywar Lay Chaung	93	45	48.4	25	26.9	23	24.7
42	03	Pain Nae Kone	336	136	40.5	150	44.6	50	14.9
43	07	Thar Yar Kone	61	20	32.8	34	55.7	7	11.5
44	13	Kine Thaug	404	150	37.1	154	38.1	100	24.8
Kadonkani									
45	07	Ka La Tan(Myit Tan)	32	15	46.9	13	40.6	4	12.5
46	30	Ye Win	72	43	59.7	14	19.4	15	20.8
47	33	Ye Kyaw Kauk	76	40	52.6	11	14.5	25	32.9
48	29	Myin Ka Oak	80	26	32.5	12	15.0	42	52.5
49	66	La Waing Kyun (Gar Chung)	51	31	60.8	17	33.3	3	5.9
50	70	Tha Bot Sa Khan	41	36	87.8	5	12.2	-	-
51	72	Aung Hlaing (Kywe Te)	35	13	37.1	11	31.4	11	31.4
52	20	Kyun Thar Yar	140	103	73.6	28	20.0	9	6.4
53	67	Htaik Chaung Myit Tan	49	31	63.3	8	16.3	10	20.4
54	49	Atwin Mayan	120	108	90.0	10	8.3	2	1.7
55	71	Pauk Sein Kya	61	31	50.8	20	32.8	10	16.4
56	19	Nga Pe Chaung	36	19	52.8	15	41.7	2	5.6
57	69	Hnar Gyi	79	49	62.0	20	25.3	10	12.7
58	01	Kadon Kani	995	455	45.7	400	40.2	140	14.1
59	03	Ywar Ka Lay*	121	82	67.8	30	24.8	9	7.4
60	68	Kyain Chaung Phyar	60	19	31.7	36	60.0	5	8.3
61	01	Aye Yar	701	549	78.3	112	16.0	40	5.7
62	02	Tauk Tar Kone	64	47	73.4	12	18.8	5	7.8
63	04	Shwe Sar Yan	73	40	54.8	33	45.2	-	-
64	05	Poe Lauk Kone + Ein Gyi Kwin	23	13	56.5	10	43.5	-	-
65	09	Kywe Phyu	71	21	29.6	47	66.2	3	4.2
66	73	Aing Gyi Kwin	41	30	73.2	11	26.8	-	-
Pyindaye									
67	30	Asi Lay	70	61	87.1	5	7.1	4	5.7
68	22	War Kwin	25	16	64.0	4	16.0	5	20.0
69	16	Nga Pha Chaung	116	52	44.8	44	37.9	20	17.2

Table 1.5 Distribution of Households by Income-range by Villag

No.	Vlg Code	Village Name	All household	Income					
				Less than 100,00 kyats		100,000 to 300,000 kyats		300,000 kyats & above	
				No	%	No	%	No	%
70	17	Kyun Thit Su	48	23	47.9	15	31.3	10	20.8
71	18	Ywar Thar Aye*	70	-	-	70	100.0	-	-
72	19	Koe La Tar	78	47	60.3	18	23.1	13	16.7
73	21	Ngote Chaung	55	29	52.7	5	9.1	21	38.2
74	32	Sar Oh Chaung	56	18	32.1	12	21.4	26	46.4
75	29	Taung Ywar Chaung	94	30	31.9	39	41.5	25	26.6
76	03	Auk seik Kwin	146	146	100.0	-	-	-	-
77	09	Nauk Pyan Toe (Let Wave Saing)	62	16	25.8	41	66.1	5	8.1
78	10	Kan Ma Lar Gyi (War War Win)	135	81	60.0	32	23.7	22	16.3
79	12	Htup Koe/Kwin Chaung	162	78	48.1	69	42.6	15	9.3
80	04	Hnit Char	82	10	12.2	54	65.9	18	22.0
81	03	Thaing Chaung Gyi	46	34	73.9	12	26.1	-	-
82	08	Byu Chaung Gyi	141	91	64.5	30	21.3	20	14.2
83	01	Te Pin Seik	172	106	61.6	56	32.6	10	5.8
84	03	Ah Shayt Mayan	101	49	48.5	50	49.5	2	2.0
85	04	Kwin Chaung	110	70	63.6	20	18.2	20	18.2
86	11	Kyein Chaung Gyi	75	62	82.7	9	12.0	4	5.3
87	02	Ah Nauk Mayan	128	111	86.7	17	13.3	-	-
88	02	Lay Pin Chaung	119	79	66.4	40	33.6	-	-
89	06	Kan Nar Kwin	97	64	66.0	31	32.0	2	2.1
90	04	Ba Aye Kone(Kan Gyi Kone)	57	10	17.5	23	40.4	24	42.1
91	08	Thar Yar Kone	24	11	45.8	9	37.5	4	16.7
92	02	Seik Ma (West)	101	67	66.3	11	10.9	23	22.8
93	03	Taw Kyoe	120	63	52.5	19	15.8	38	31.7
94	16	Ka Nyin Kone	72	10	13.9	7	9.7	55	76.4
95	07	Ma Mhwe Kwin	80	15	18.8	57	71.3	8	10.0
96	05	Oo Pait	149	49	32.9	97	65.1	3	2.0
97	12	Tha Mein Pa Le	96	23	24.0	51	53.1	22	22.9
98	05	Gaw Du	115	75	65.2	-	-	40	34.8
99	13	Ah Shayt Phyar	350	265	75.7	-	-	85	24.3
100	17	Khat Tar Kyun	113	28	24.8	8	7.1	77	68.1
	Total		10,470	5,056		3,779		1,635	

Table 1.6 Distribution of Households by Main Source of Livelihood by Village

No.	Vlg Code	Village Name	All household	Agriculture		Livestock		Fishery		Casual Labour		Small Business		Forestry		alt Product		Charcoal Product		Others			
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
79	12	Htup Koe/Kwin Chaung	162	134	82.7	2	1.2	13	8.0	9	5.6	4	2.5	-	-	-	-	-	-	-	-	-	
80	04	Hnit Char	82	64	78.0	-	-	-	-	6	7.3	7	8.5	4	4.9	-	-	1	1.2	-	-	-	
81	03	Thaing Chaung Gyi	46	34	73.9	-	-	-	-	7	15.2	4	8.7	1	2.2	-	-	-	-	-	-	-	
82	08	Byu Chaung Gyi	141	100	70.9	-	-	3	2.1	33	23.4	5	3.5	-	-	-	-	-	-	-	-	-	
83	01	Te Pin Seik	172	28	16.3	-	-	15	8.7	110	64.0	19	11.0	-	-	-	-	-	-	-	-	-	
84	03	Ah Shayt Mayan	101	50	49.5	-	-	-	-	49	48.5	2	2.0	-	-	-	-	-	-	-	-	-	
85	04	Kwin Chaung	110	55	50.0	-	-	14	12.7	31	28.2	8	7.3	-	-	-	-	-	-	2	1.8	-	
86	11	Kyein Chaung Gyi	75	35	46.7	-	-	-	-	38	50.7	2	2.7	-	-	-	-	-	-	-	-	-	
87	02	Ah Nauk Mayan	128	52	40.6	-	-	-	-	71	55.5	5	3.9	-	-	-	-	-	-	-	-	-	
88	02	Lay Pin Chaung	119	96	80.7	-	-	-	-	20	16.8	3	2.5	-	-	-	-	-	-	-	-	-	
89	06	Kan Nar Kwin	97	21	21.6	-	-	4	4.1	43	44.3	2	2.1	21	21.6	-	-	6	6.2	-	-	-	
90	04	Ba Aye Kone(Kan Gyi Kone)	57	47	82.5	-	-	-	-	10	17.5	-	-	-	-	-	-	-	-	-	-	-	
91	08	Thar Yar Kone	24	13	54.2	-	-	4	16.7	6	25.0	1	4.2	-	-	-	-	-	-	-	-	-	
92	02	Seik Ma (West)	101	8	7.9	-	-	20	19.8	67	66.3	6	5.9	-	-	-	-	-	-	-	-	-	
93	03	Taw Kyoe	120	44	36.7	-	-	16	13.3	55	45.8	3	2.5	2	1.7	-	-	-	-	-	-	-	
94	16	Ka Nyin Kone	72	61	84.7	1	1.4	2	2.8	8	11.1	-	-	-	-	-	-	-	-	-	-	-	
95	07	Ma Mhwe Kwin	80	40	50.0	4	5.0	-	-	20	25.0	8	10.0	-	-	-	-	8	10.0	-	-	-	
96	05	Oo Pait	149	76	51.0	-	-	1	0.7	12	8.1	19	12.8	30	20.1	2	1.3	9	6.0	-	-	-	
97	12	Tha Mein Pa Le	96	58	60.4	-	-	-	-	23	24.0	5	5.2	-	-	-	-	10	10.4	-	-	-	
98	05	Gaw Du	115	3	2.6	-	-	28	24.3	75	65.2	9	7.8	-	-	-	-	-	-	-	-	-	
99	13	Ah Shayt Phyar	350	-	-	-	-	53	15.1	265	75.7	25	7.1	-	-	-	-	-	-	7	2.0	-	
100	17	Khat Tar Kyun	113	-	-	1	0.9	57	50.4	28	24.8	15	13.3	-	-	-	-	-	-	12	10.6	-	
Total			10,470	2,912		35		959		5,670		599		94		9		38		154			

Table 1.7 Distribution of Households by Land Ownership and Available Land

No.	lg Cod	Village Name	All household	Type of Land		Ownership				Planned or Available Land for Mangrove Reforestation by Household									
				Own		Rent		Other		No Land		< 0.4 ha		0.4 - 1.2 ha		1.2 - 4 ha		> 4 ha	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
Kyakankwinpauk																			
1	07	Kyar Kan Su	58	8	13.8	-	-	-	-	-	-	-	-	8	13.8	-	-	-	
2	07	Na Khaung Pauk	64	24	37.5	-	-	-	-	23	35.9	-	-	-	-	1	1.6	-	
3	03	Mi Ya Htar	101	29	28.7	-	-	-	-	-	-	29	28.7	-	-	-	-	-	
4	09	Kyaung Shar	133	30	22.6	-	-	-	-	30	22.6	-	-	-	-	-	-	-	
5	01	Tha Byu Kone	140	32	22.9	-	-	-	-	32	22.9	-	-	-	-	-	-	-	
6	07	Mi Oo	38	18	47.4	-	-	-	-	18	47.4	-	-	-	-	-	-	-	
7	07	Daunt Gyi Kone	75	20	26.7	-	-	-	-	20	26.7	-	-	-	-	-	-	-	
8	08	Koe Bo (L)	122	41	33.6	-	-	-	-	40	32.8	-	-	1	0.8	-	-	-	
9	12	Nyan Kwin	99	27	27.3	-	-	-	-	27	27.3	-	-	-	-	-	-	-	
10	05	Myin Ka Kone	66	19	28.8	-	-	-	-	15	22.7	-	-	-	-	4	6.1	-	
11	02	Zin Pyun Kone	73	25	34.2	-	-	-	-	25	34.2	-	-	-	-	-	-	-	
12	14	Kan Thar Yar	46	15	32.6	-	-	-	-	15	32.6	-	-	-	-	-	-	-	
13	12	Kanu Kamar	109	15	13.8	-	-	-	-	5	4.6	-	-	5	4.6	5	4.6	-	
14	01	Sa Lu Seik	238	20	8.4	3	1.3	-	-	23	9.7	-	-	-	-	-	-	-	
15	05	Kwin Thone Sint	72	9	12.5	-	-	-	-	9	12.5	-	-	-	-	-	-	-	
16	01	Yway	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	03	Pyin Kanu Kone	105	38	36.2	-	-	-	-	38	36.2	-	-	-	-	-	-	-	
18	06	Pyin Kanu Wah	122	17	13.9	-	-	-	-	15	12.3	-	-	-	-	2	1.6	-	
Pyinalan																			
19	04	Sit Kone	70	31	44.3	-	-	-	-	29	41.4	-	-	2	2.9	-	-	-	
20	11	Kan Nyi Naung	68	23	33.8	-	-	-	-	19	27.9	1	1.5	-	-	3	4.4	-	
21	12	Ye Twin Kone	69	31	44.9	-	-	-	-	27	39.1	-	-	4	5.8	-	-	-	
22	17	Nga Dan Ta Ya	36	10	27.8	-	-	-	-	-	10	27.8	-	-	-	-	-	-	
23	21	Mya Kyun Thar	43	12	27.9	-	-	-	-	8	18.6	1	2.3	2	4.7	-	-	1	
24	22	Hnget Thike	41	9	22.0	-	-	-	-	-	9	22.0	-	-	-	-	-	-	
25	24	Ngat Kya	50	9	18.0	-	-	-	-	-	6	12.0	3	6.0	-	-	-	-	
26	23	Gaw Thu We Chaung	61	60	98.4	-	-	-	-	-	60	98.4	-	-	-	-	-	-	
27	25	Gaw Thu (North)	28	4	14.3	-	-	-	-	4	14.3	-	-	-	-	-	-	-	
28	26	Htin Su	42	16	38.1	-	-	-	-	-	16	38.1	-	-	-	-	-	-	
29	08	Pho Na Ko	134	52	38.8	-	-	-	-	42	31.3	-	-	10	7.5	-	-	-	
30	03	Chan Thar Aye Kone	98	30	30.6	-	-	-	-	30	30.6	-	-	-	-	-	-	-	
31	05	Nga Phone	54	13	24.1	-	-	-	-	13	24.1	-	-	-	-	-	-	-	
32	17	Phayarlai	18	8	44.4	-	-	-	-	8	44.4	-	-	-	-	-	-	-	
33	18	Sin Htwet	27	7	25.9	-	-	-	-	7	25.9	-	-	-	-	-	-	-	
34	04	Ta Loke Kone	30	8	26.7	-	-	-	-	3	10.0	-	-	1	3.3	4	13.3	-	
35	05	Shwe Kone	88	25	28.4	-	-	-	-	25	28.4	-	-	-	-	-	-	-	
36	06	Ma Dauk Bo Kone	57	5	8.8	-	-	-	-	5	8.8	-	-	-	-	-	-	-	
37	05	Lein Maw Kone	52	5	9.6	-	-	-	-	5	9.6	-	-	-	-	-	-	-	
38	08	Shaw Ni	87	5	5.7	-	-	-	-	5	5.7	-	-	-	-	-	-	-	
39	04	Nyaung Ta Pin	55	20	36.4	-	-	-	-	20	36.4	-	-	-	-	-	-	-	
40	01	Da Ni Seik	96	24	25.0	-	-	-	-	24	25.0	-	-	-	-	-	-	-	
41	07	Ywar Lay Chaung	93	22	23.7	-	-	-	-	22	23.7	-	-	-	-	-	-	-	
42	03	Pain Nae Kone	336	36	10.7	-	-	-	-	36	10.7	-	-	-	-	-	-	-	
43	07	Thar Yar Kone	61	26	42.6	-	-	-	-	26	42.6	-	-	-	-	-	-	-	
44	13	Kine Thaug	404	2	0.5	-	-	-	-	2	0.5	-	-	-	-	-	-	-	
Kadonkani																			
45	07	Ka La Tan(Myit Tan)	32	2	6.3	-	-	1	3.1	-	-	1	3.1	2	6.3	-	-	-	
46	30	Ye Win	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	33	Ye Kyaw Kauk	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	29	Myin Ka Oak	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
49	66	Chung)	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50	70	Tha Bot Sa Khan	41	31	75.6	-	-	-	-	-	26	63.4	5	12.2	-	-	-	-	
51	72	Aung Hlaing (Kywe Te)	35	4	11.4	-	-	-	-	-	-	4	11.4	-	-	-	-	-	
52	20	Kyun Thar Yar	140	43	30.7	-	-	-	-	-	30	21.4	13	9.3	-	-	-	-	
53	67	Htaik Chaung Myit Tan	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
54	49	Atwin Mayan	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
55	71	Pauk Sein Kya	61	26	42.6	-	-	-	-	-	15	24.6	11	18.0	-	-	-	-	
56	19	Nga Pe Chaung	36	7	19.4	-	-	-	-	-	5	13.9	2	5.6	-	-	-	-	
57	69	Hnar Gyi	79	27	34.2	-	-	-	-	-	14	17.7	13	16.5	-	-	-	-	
58	01	Kadon Kani	995	60	6.0	-	-	-	-	-	60	6.0	-	-	-	-	-	-	
59	03	Ywar Ka Lay*	121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
60	68	Kyain Chaung Phyar	60	38	63.3	-	-	-	-	-	38	63.3	-	-	-	-	-	-	
61	01	Aye Yar	701	2	0.3	-	-	-	-	-	-	-	2	0.3	-	-	-	-	
62	02	Tauk Tar Kone	64	5	7.8	-	-	-	-	-	5	7.8	-	-	-	-	-	-	
63	04	Shwe Sar Yan	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
64	05	Kwin	23	3	13.0	-	-	-	-	-	3	13.0	-	-	-	-	-	-	
65	09	Kywe Phyu	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
66	73	Aing Gyi Kwin	41	5	12.2	-	-	-	-	-	5	12.2	-	-	-	-	-	-	
Pyindaye																			
67	30	Asi Lay	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
68	22	War Kwin	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
69	16	Nga Pha Chaung	116	12	10.3	-	-	-	-	-	-	-	12	10.3	-	-	-	-	
70	17	Kyun Thit Su	48	-	-	-	-	2	4.2	-	-	-	-	-	-	1	2.1	1	
71	18	Ywar Thar Aye*	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
72	19	Koe La Tar	78	-	-	-	-	22	28.2	-	-	-	14	17.9	6	7.7	2	2.6	
73	21	Ngote Chaung	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
74	32	Sar Oh Chaung	56	-	-	-	-	10	17.9	-	-	-	2	3.6	2	3.6	6	10.7	
75	29	Taung Ywar Chaung	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 1.7 Distribution of Households by Land Ownership and Available Land

No.	lg Cod	Village Name	All household	Type of Land		Ownership				Planned or Available Land for Mangrove Reforestation by Household									
				Own		Rent		Other		No Land		< 0.4 ha		0.4 - 1.2 ha		1.2 - 4 ha		> 4 ha	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
76	03	Auk seik Kwin	146	42	28.8	-	-	-	-	42	28.8	-	-	-	-	-	-	-	-
77	09	Wave Saing)	62	-	-	-	-	1	1.6	-	-	-	-	1	1.6	-	-	-	-
78	10	War Win)	135	-	-	-	-	15	11.1	-	-	-	-	15	11.1	-	-	-	-
79	12	Htup Koe/Kwin Chaung	162	2	1.2	-	-	10	6.2	-	-	-	-	10	6.2	2	1.2	-	-
80	04	Hnit Char	82	64	78.0	-	-	-	-	57	69.5	-	-	7	8.5	-	-	-	-
81	03	Thaing Chaung Gyi	46	34	73.9	-	-	-	-	34	73.9	-	-	-	-	-	-	-	-
82	08	Byu Chaung Gyi	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	172	28	16.3	-	-	-	-	23	13.4	-	-	-	-	3	1.7	2	1.2
84	03	Ah Shayt Mayan	101	50	49.5	-	-	-	-	50	49.5	-	-	-	-	-	-	-	-
85	04	Kwin Chaung	110	-	-	-	-	30	27.3	30	27.3	-	-	-	-	-	-	-	-
86	11	Kyein Chaung Gyi	75	6	8.0	-	-	-	-	-	-	2	2.7	3	4.0	1	1.3	-	-
87	02	Ah Nauk Mayan	128	52	40.6	-	-	-	-	52	40.6	-	-	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	-	-	-	-	15	12.6	-	-	11	9.2	3	2.5	1	0.8	-	-
89	06	Kan Nar Kwin	97	21	21.6	-	-	-	-	21	21.6	-	-	-	-	-	-	-	-
90	04	Kone)	57	47	82.5	-	-	-	-	47	82.5	-	-	-	-	-	-	-	-
91	08	Thar Yar Kone	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	101	8	7.9	-	-	-	-	8	7.9	-	-	-	-	-	-	-	-
93	03	Taw Kyoe	120	44	36.7	-	-	-	-	44	36.7	-	-	-	-	-	-	-	-
94	16	Ka Nyin Kone	72	61	84.7	-	-	-	-	-	-	-	-	20	27.8	35	48.6	6	8.3
95	07	Ma Mhwe Kwin	80	40	50.0	-	-	-	-	40	50.0	-	-	-	-	-	-	-	-
96	05	Oo Pait	149	76	51.0	-	-	-	-	76	51.0	-	-	-	-	-	-	-	-
97	12	Tha Mein Pa Le	96	58	60.4	-	-	-	-	58	60.4	-	-	-	-	-	-	-	-
98	05	Gaw Du	115	3	2.6	-	-	-	-	3	2.6	-	-	-	-	-	-	-	-
99	13	Ah Shayt Phyar	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			10,470	1,781				3		106		1,280		347		175		70	18

Table 1.8 Distribution of Households by Type of Energy/fuel

No.	/fg Cod	Village Name	All household	Home energy/fuel												Small industry											
				Wood		Charcoal		Diesel		Coal		Briquette		Other		Wood		Charcoal		Diesel		Coal		Briquette		Other	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%		
87	02	Ah Nauk Mayan	128	128	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
88	02	Lay Pin Chaung	119	119	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
89	06	Kan Nar Kwin	97	97	100.0	-	-	-	-	-	-	-	-	-	6	6.2	-	-	1	1.0	-	-	-	-			
90	04	Kone)	57	57	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
91	08	Thar Yar Kone	24	24	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
92	02	Seik Ma (West)	101	101	100.0	-	-	-	-	-	-	-	-	-	-	-	-	25	24.8	-	-	-	-	-			
93	03	Taw Kyoe	120	120	100.0	-	-	-	-	-	-	-	-	-	-	-	-	3	2.5	-	-	-	-	-			
94	16	Ka Nyin Kone	72	72	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
95	07	Ma Mhwe Kwin	80	80	100.0	-	-	-	-	-	-	-	-	-	-	-	-	7	8.8	-	-	-	-	-			
96	05	Oo Pait	149	149	100.0	-	-	-	-	-	-	-	-	-	-	-	-	5	3.4	-	-	-	-	-			
97	12	Tha Mein Pa Le	96	96	100.0	-	-	-	-	-	-	-	-	-	-	-	-	3	3.1	-	-	-	-	-			
98	05	Gaw Du	115	115	100.0	-	-	-	-	-	-	-	-	-	-	-	-	15	13.0	-	-	-	-	-			
99	13	Ah Shayt Phyar	350	350	100.0	-	-	-	-	-	-	-	-	-	5	1.4	-	-	53	15.1	-	-	-	-			
100	17	Khat Tar Kyun	113	113	100.0	-	-	-	-	-	-	-	-	-	-	-	-	20	17.7	-	-	-	-	-			
Total			10,470	9,969		2	-	-	-	429	70	25	7	572	-	-	-	55									

Table 1.9 Distribution of Households by Volume of Consumption per Month

No.	Vlg Code	Village Name	All household	Number of fuel wood used households		Volume of Consumption/household/month							
						< 6.12 m ³		6.12 - 12.24 m ³		12.24 - 18.36 m ³		> 18.36 m ³	
				No	%	No	%	No	%	No	%	No	%
Kyakankwinpauk													
1	07	Kyar Kan Su	58	57	98.3	57	100.0	-	-	-	-	-	-
2	07	Na Khaung Pauk	64	64	100.0	64	100.0	-	-	-	-	-	-
3	03	Mi Ya Htar	101	101	100.0	101	100.0	-	-	-	-	-	-
4	09	Kyaung Shar	133	133	100.0	133	100.0	-	-	-	-	-	-
5	01	Tha Byu Kone	140	140	100.0	140	100.0	-	-	-	-	-	-
6	07	Mi Oo	38	10	26.3	10	100.0	-	-	-	-	-	-
7	07	Daunt Gyi Kone	75	75	100.0	75	100.0	-	-	-	-	-	-
8	08	Koe Bo (L)	122	122	100.0	122	100.0	-	-	-	-	-	-
9	12	Nyan Kwin	99	9	9.1	9	100.0	-	-	-	-	-	-
10	05	Myin Ka Kone	66	65	98.5	65	100.0	-	-	-	-	-	-
11	02	Zin Pyun Kone	73	73	100.0	73	100.0	-	-	-	-	-	-
12	14	Kan Thar Yar	46	46	100.0	46	100.0	-	-	-	-	-	-
13	12	Kanu Kamar	109	104	95.4	104	100.0	-	-	-	-	-	-
14	01	Sa Lu Seik	238	228	95.8	228	100.0	-	-	-	-	-	-
15	05	Kwin Thone Sint	72	72	100.0	72	100.0	-	-	-	-	-	-
16	01	Yway	125	125	100.0	125	100.0	-	-	-	-	-	-
17	03	Pyin Kanu Kone	105	105	100.0	84	80.0	21	20.0	-	-	-	-
18	06	Pyin Kanu Wah	122	122	100.0	122	100.0	-	-	-	-	-	-
Pyinalan													
19	04	Sit Kone	70	6	8.6	6	100.0	-	-	-	-	-	-
20	11	Kan Nyi Naung	68	6	8.8	6	100.0	-	-	-	-	-	-
21	12	Ye Twin Kone	69	-	-	-	-	-	-	-	-	-	-
22	17	Nga Dan Ta Ya	36	2	5.6	2	100.0	-	-	-	-	-	-
23	21	Mya Kyun Thar	43	42	97.7	42	100.0	-	-	-	-	-	-
24	22	Hngat Thike	41	38	92.7	38	100.0	-	-	-	-	-	-
25	24	Ngat Kya	50	50	100.0	50	100.0	-	-	-	-	-	-
26	23	Gaw Thu We Chaung	61	61	100.0	61	100.0	-	-	-	-	-	-
27	25	Gaw Thu (North)	28	28	100.0	28	100.0	-	-	-	-	-	-
28	26	Htin Su	42	42	100.0	42	100.0	-	-	-	-	-	-
29	08	Pho Na Ko	134	134	100.0	134	100.0	-	-	-	-	-	-
30	03	Chan Thar Aye Kone	98	98	100.0	83	84.7	15	15.3	-	-	-	-
31	05	Nga Phone	54	54	100.0	54	100.0	-	-	-	-	-	-
32	17	Phayarlay	18	18	100.0	18	100.0	-	-	-	-	-	-
33	18	Sin Htwet	27	27	100.0	27	100.0	-	-	-	-	-	-
34	04	Ta Loke Kone	30	30	100.0	30	100.0	-	-	-	-	-	-
35	05	Shwe Kone	88	88	100.0	87	98.9	1	1.1	-	-	-	-
36	06	Ma Dauk Bo Kone	57	57	100.0	57	100.0	-	-	-	-	-	-
37	05	Lein Maw Kone	52	52	100.0	52	100.0	-	-	-	-	-	-
38	08	Shaw Ni	87	87	100.0	87	100.0	-	-	-	-	-	-
39	04	Nyaung Ta Pin	55	55	100.0	55	100.0	-	-	-	-	-	-
40	01	Da Ni Seik	96	96	100.0	90	93.8	6	6.3	-	-	-	-
41	07	Ywar Lay Chaung	93	93	100.0	87	93.5	6	6.5	-	-	-	-
42	03	Pain Nae Kone	336	336	100.0	336	100.0	-	-	-	-	-	-
43	07	Thar Yar Kone	61	61	100.0	61	100.0	-	-	-	-	-	-
44	13	Kine Thaug	404	404	100.0	404	100.0	-	-	-	-	-	-
Kadonkani													
45	07	Ka La Tan(Myit Tan)	32	32	100.0	4	12.5	28	87.5	-	-	-	-
46	30	Ye Win	72	-	-	-	-	-	-	-	-	-	-
47	33	Ye Kyaw Kauk	76	36	47.4	36	100.0	-	-	-	-	-	-
48	29	Myin Ka Oak	80	59	73.8	59	100.0	-	-	-	-	-	-
49	66	La Waing Kyun (Gar Chung)	51	51	100.0	-	-	-	-	51	100.0	-	-
50	70	Tha Bot Sa Khan	41	41	100.0	41	100.0	-	-	-	-	-	-
51	72	Aung Hlaing (Kywe Te)	35	35	100.0	35	100.0	-	-	-	-	-	-
52	20	Kyun Thar Yar	140	140	100.0	140	100.0	-	-	-	-	-	-
53	67	Htaik Chaung Myit Tan	49	49	100.0	49	100.0	-	-	-	-	-	-
54	49	Atwin Mayan	120	120	100.0	30	25.0	70	58.3	20	16.7	-	-
55	71	Pauk Sein Kya	61	61	100.0	30	49.2	31	50.8	-	-	-	-
56	19	Nga Pe Chaung	36	36	100.0	36	100.0	-	-	-	-	-	-
57	69	Hnar Gyi	79	79	100.0	-	-	8	10.1	66	83.5	5	6.3
58	01	Kadon Kani	995	995	100.0	995	100.0	-	-	-	-	-	-
59	03	Ywar Ka Lay*	121	121	100.0	58	47.9	63	52.1	-	-	-	-
60	68	Kyain Chaung Phyar	60	60	100.0	-	-	-	-	-	-	60	100.0
61	01	Aye Yar	701	701	100.0	-	-	701	100.0	-	-	-	-
62	02	Tauk Tar Kone	64	64	100.0	-	-	64	100.0	-	-	-	-
63	04	Shwe Sar Yan	73	73	100.0	69	94.5	4	5.5	-	-	-	-
64	05	Poe Lauk Kone + Ein Gyi Kwin	23	23	100.0	23	100.0	-	-	-	-	-	-
65	09	Kywe Phyu	71	71	100.0	71	100.0	-	-	-	-	-	-
66	73	Aing Gyi Kwin	41	41	100.0	41	100.0	-	-	-	-	-	-
Pyindaye													
67	30	Asi Lay	70	70	100.0	70	100.0	-	-	-	-	-	-
68	22	War Kwin	25	25	100.0	25	100.0	-	-	-	-	-	-
69	16	Nga Pha Chaung	116	116	100.0	113	97.4	3	2.6	-	-	-	-
70	17	Kyun Thit Su	48	48	100.0	48	100.0	-	-	-	-	-	-

Table 1.9 Distribution of Households by Volume of Consumption per Month

No.	Vlg Code	Village Name	All household	Number of fuel wood used households		Volume of Consumption/household/month							
						< 6.12 m ³		6.12 - 12.24 m ³		12.24 - 18.36 m ³		> 18.36 m ³	
				No	%	No	%	No	%	No	%	No	%
71	18	Ywar Thar Aye*	70	70	100.0	70	100.0	-	-	-	-	-	-
72	19	Koe La Tar	78	78	100.0	78	100.0	-	-	-	-	-	-
73	21	Ngote Chaung	55	55	100.0	55	100.0	-	-	-	-	-	-
74	32	Sar Oh Chaung	56	56	100.0	56	100.0	-	-	-	-	-	-
75	29	Taung Ywar Chaung	94	94	100.0	94	100.0	-	-	-	-	-	-
76	03	Auk seik Kwin	146	146	100.0	146	100.0	-	-	-	-	-	-
77	09	Nauk Pyan Toe (Let Wave Saing)	62	62	100.0	62	100.0	-	-	-	-	-	-
78	10	Kan Ma Lar Gyi (War War Win)	135	135	100.0	132	97.8	3	2.2	-	-	-	-
79	12	Htup Koe/Kwin Chaung	162	162	100.0	127	78.4	35	21.6	-	-	-	-
80	04	Hnit Char	82	82	100.0	77	93.9	-	-	5	6.1	-	-
81	03	Thaing Chaung Gyi	46	46	100.0	45	97.8	-	-	-	-	1	2.2
82	08	Byu Chaung Gyi	141	141	100.0	141	100.0	-	-	-	-	-	-
83	01	Te Pin Seik	172	172	100.0	172	100.0	-	-	-	-	-	-
84	03	Ah Shayt Mayan	101	101	100.0	101	100.0	-	-	-	-	-	-
85	04	Kwin Chaung	110	110	100.0	105	95.5	-	-	-	-	5	4.5
86	11	Kyein Chaung Gyi	75	75	100.0	75	100.0	-	-	-	-	-	-
87	02	Ah Nauk Mayan	128	128	100.0	128	100.0	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	119	100.0	119	100.0	-	-	-	-	-	-
89	06	Kan Nar Kwin	97	97	100.0	76	78.4	-	-	-	-	21	21.6
90	04	Ba Aye Kone(Kan Gyi Kone)	57	57	100.0	57	100.0	-	-	-	-	-	-
91	08	Thar Yar Kone	24	24	100.0	24	100.0	-	-	-	-	-	-
92	02	Seik Ma (West)	101	101	100.0	101	100.0	-	-	-	-	-	-
93	03	Taw Kyoe	120	120	100.0	120	100.0	-	-	-	-	-	-
94	16	Ka Nyin Kone	72	72	100.0	72	100.0	-	-	-	-	-	-
95	07	Ma Mhwe Kwin	80	80	100.0	42	52.5	-	-	-	-	38	47.5
96	05	Oo Pait	149	149	100.0	110	73.8	30	20.1	9	6.0	-	-
97	12	Tha Mein Pa Le	96	96	100.0	51	53.1	-	-	-	-	45	46.9
98	05	Gaw Du	115	115	100.0	99	86.1	16	13.9	-	-	-	-
99	13	Ah Shayt Phyar	350	350	100.0	350	100.0	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	113	100.0	101	89.4	12	10.6	-	-	-	-
		Total	10,470	9,969		8,526		1,117		151		175	

Table 1.10 Distribution of Household by Main Type of Livelihood and Other Subsidies Income

No.	Mg Code	Village Name	Total households	Main income activity is agriculture						Main income activities is Fishing				Main income is Fishing product			Main income is Salt				Main income is livestock						Main income is Small scale business						Main is Casual Labour		Main is charcoal production	Main is forest products	Other type of works			
				Agri only	"+" Fishing	"+" Fishery products	"+" Livestocks	"+" Small business	"+" Casual labour	"+" Other works	Fishing only	"+" Agriculture	"+" Livestocks	"+" Small business	Fisheries products only	"+" Livestocks	"+" Small business	Salt production only	"+" Livestocks	Livestocks only	"+" Agriculture	"+" Small business	"+" Casual labour	Small scale business only	"+" Agriculture	"+" Fishing	"+" Fishery products	"+" Salt production	"+" Livestocks	"+" Casual labour	"+" Forest products	Casual labour only	"+" Forest products							
92	02	Seik Ma (West)	101	8	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
93	03	Taw Kyoe	120	44	-	-	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
94	16	Ka Nyin Kone	72	60	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
95	07	Ma Mhwe Kwin	80	40	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
96	05	Oo Pait	149	76	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
97	12	Tha Mein Pa Le	96	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
98	05	Gaw Du	115	3	-	-	-	-	-	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
99	13	Ah Shayt Phyar	350	-	-	-	-	-	-	-	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	-	-	-	-	-	-	-	-	-	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			10,470	1,847	111	49	312	405	187	1	458	1	84	119	259	3	35	6	3	28	3	2	2	535	18	10	16	1	17	1	1	1	5,665	5	4	128	154			

Table 1.11 Distribution of Households by Farm Size

No.	Vlg Code	Village Name	All household	# of farm households	# of non-farm households	Farm size					
						< 1.2 ha		1.2 - 4 ha		> 4 ha	
						No	%	No	%	No	%
Kyakankwinpauk											
1	07	Kyar Kan Su	58	8	50	-	-	4	50.00	4	50.00
2	07	Na Khaung Pauk	64	24	40	-	-	-	-	24	100.00
3	03	Mi Ya Htar	101	29	72	-	-	4	13.79	25	86.21
4	09	Kyaung Shar	133	30	103	-	-	-	-	30	100.00
5	01	Tha Byu Kone	140	32	108	1	3.13	10	31.25	21	65.63
6	07	Mi Oo	38	18	20	1	5.56	-	-	17	94.44
7	07	Daunt Gyi Kone	75	20	55	-	-	-	-	20	100.00
8	08	Koe Bo (L)	122	41	81	4	9.76	5	12.20	32	78.05
9	12	Nyan Kwin	99	27	72	-	-	3	11.11	24	88.89
10	05	Myin Ka Kone	66	19	47	-	-	10	52.63	9	47.37
11	02	Zin Pyun Kone	73	25	48	-	-	2	8.00	23	92.00
12	14	Kan Thar Yar	46	15	31	-	-	-	-	15	100.00
13	12	Kanu Kamar	109	15	94	-	-	8	53.33	7	46.67
14	01	Sa Lu Seik	238	23	215	-	-	3	13.04	20	86.96
15	05	Kwin Thone Sint	72	9	63	1	11.11	7	77.78	1	11.11
16	01	Yway	125	-	125	-	-	-	-	-	-
17	03	Pyin Kanu Kone	105	38	67	-	-	6	15.79	32	84.21
18	06	Pyin Kanu Wah	122	17	105	2	11.76	2	11.76	13	76.47
Pyinalan											
19	04	Sit Kone	70	31	39	-	-	4	12.90	27	87.10
20	11	Kan Nyi Naung	68	23	45	-	-	12	52.17	11	47.83
21	12	Ye Twin Kone	69	31	38	-	-	10	32.26	21	67.74
22	17	Nga Dan Ta Ya	36	10	26	-	-	3	30.00	7	70.00
23	21	Mya Kyun Thar	43	12	31	-	-	1	8.33	11	91.67
24	22	Hnget Thike	41	9	32	-	-	3	33.33	6	66.67
25	24	Ngat Kya	50	9	41	-	-	-	-	9	100.00
26	23	Gaw Thu We Chaung	61	9	52	-	-	-	-	9	100.00
27	25	Gaw Thu (North)	28	4	24	-	-	-	-	4	100.00
28	26	Htin Su	42	16	26	-	-	-	-	16	100.00
29	08	Pho Na Ko	134	52	82	-	-	4	7.69	48	92.31
30	03	Chan Thar Aye Kone	98	30	68	-	-	10	33.33	20	66.67
31	05	Nga Phone	54	13	41	-	-	-	-	13	100.00
32	17	Phayarlay	18	8	10	-	-	-	-	8	100.00
33	18	Sin Htwet	27	7	20	-	-	-	-	7	100.00
34	04	Ta Loke Kone	30	8	22	-	-	8	100.00	-	-
35	05	Shwe Kone	88	25	63	-	-	20	80.00	5	20.00
36	06	Ma Dauk Bo Kone	57	5	52	-	-	2	40.00	3	60.00
37	05	Lein Maw Kone	52	5	47	5	100.00	-	-	-	-
38	08	Shaw Ni	87	5	82	-	-	5	100.00	-	-
39	04	Nyaung Ta Pin	55	20	35	1	5.00	17	85.00	2	10.00
40	01	Da Ni Seik	96	24	72	-	-	-	-	24	100.00
41	07	Ywar Lay Chaung	93	22	71	-	-	-	-	22	100.00
42	03	Pain Nae Kone	336	36	300	-	-	16	44.44	20	55.56
43	07	Thar Yar Kone	61	26	35	2	7.69	7	26.92	17	65.38
44	13	Kine Thaug	404	2	402	2	100.00	-	-	-	-
Kadonkani											
45	07	Ka La Tan(Myit Tan)	32	3	29	-	-	1	33.33	2	66.67
46	30	Ye Win	72	34	38	-	-	14	41.18	20	58.82
47	33	Ye Kyaw Kauk	76	22	54	-	-	4	18.18	18	81.82
48	29	Myin Ka Oak	80	42	38	-	-	11	26.19	31	73.81
49	66	Chung)	51	18	33	-	-	14	77.78	4	22.22
50	70	Tha Bot Sa Khan	41	31	10	-	-	26	83.87	5	16.13
51	72	Aung Hlaing (Kywe Te)	35	11	24	-	-	-	-	11	100.00
52	20	Kyun Thar Yar	140	43	97	-	-	6	13.95	37	86.05
53	67	Htaik Chaung Myit Tan	49	13	36	-	-	3	23.08	10	76.92
54	49	Atwin Mayan	120	24	96	-	-	17	70.83	7	29.17
55	71	Pauk Sein Kya	61	30	31	4	13.33	15	50.00	11	36.67
56	19	Nga Pe Chaung	36	8	28	1	12.50	5	62.50	2	25.00
57	69	Hnar Gyi	79	59	20	17	28.81	29	49.15	13	22.03
58	01	Kadon Kani	995	27	968	1	3.70	18	66.67	8	29.63
59	03	Ywar Ka Lay*	121	7	114	-	-	-	-	7	100.00
60	68	Kyain Chaung Phyar	60	38	22	-	-	10	26.32	28	73.68
61	01	Aye Yar	701	14	687	-	-	10	71.43	4	28.57
62	02	Tauk Tar Kone	64	11	53	5	45.45	6	54.55	-	-
63	04	Shwe Sar Yan	73	25	48	21	84.00	4	16.00	-	-
64	05	Kwin	23	10	13	1	10.00	7	70.00	2	20.00
65	09	Kywe Phyu	71	-	71	-	-	-	-	-	-
66	73	Aing Gyi Kwin	41	11	30	8	72.73	3	27.27	-	-
Pyindaye											
67	30	Asi Lay	70	28	42	-	-	3	10.71	25	89.29
68	22	War Kwin	25	9	16	-	-	4	44.44	5	55.56
69	16	Nga Pha Chaung	116	57	59	12	21.05	10	17.54	35	61.40
70	17	Kyun Thit Su	48	33	15	-	-	29	87.88	4	12.12

Table 1.11 Distribution of Households by Farm Size

No.	Vlg Code	Village Name	All household	# of farm households	# of non-farm households	Farm size					
						< 1.2 ha		1.2 - 4 ha		> 4 ha	
						No	%	No	%	No	%
71	18	Ywar Thar Aye*	70	57	13	5	8.77	42	73.68	10	17.54
72	19	Koe La Tar	78	45	33	-	-	34	75.56	11	24.44
73	21	Ngote Chaung	55	45	10	6	13.33	19	42.22	20	44.44
74	32	Sar Oh Chaung	56	40	16	2	5.00	12	30.00	26	65.00
75	29	Taung Ywar Chaung	94	55	39	5	9.09	30	54.55	20	36.36
76	03	Auk seik Kwin	146	42	104	12	28.57	30	71.43	-	-
77	09	Wave Saing)	62	62	-	30	48.39	27	43.55	5	8.06
78	10	War Win)	135	107	28	21	19.63	54	50.47	32	29.91
79	12	Htup Koe/Kwin Chaung	162	134	28	73	54.48	50	37.31	11	8.21
80	04	Hnit Char	82	64	18	42	65.63	20	31.25	2	3.13
81	03	Thaing Chaung Gyi	46	34	12	25	73.53	9	26.47	-	-
82	08	Byu Chaung Gyi	141	100	41	20	20.00	55	55.00	25	25.00
83	01	Te Pin Seik	172	28	144	-	-	20	71.43	8	28.57
84	03	Ah Shayt Mayan	101	50	51	16	32.00	34	68.00	-	-
85	04	Kwin Chaung	110	55	55	48	87.27	5	9.09	2	3.64
86	11	Kyein Chaung Gyi	75	35	40	7	20.00	26	74.29	2	5.71
87	02	Ah Nauk Mayan	128	52	76	47	90.38	5	9.62	-	-
88	02	Lay Pin Chaung	119	96	23	93	96.88	3	3.13	-	-
89	06	Kan Nar Kwin	97	21	76	7	33.33	14	66.67	-	-
90	04	Kone)	57	47	10	23	48.94	24	51.06	-	-
91	08	Thar Yar Kone	24	13	11	9	69.23	3	23.08	1	7.69
92	02	Seik Ma (West)	101	8	93	-	-	6	75.00	2	25.00
93	03	Taw Kyoe	120	44	76	16	36.36	28	63.64	-	-
94	16	Ka Nyin Kone	72	61	11	6	9.84	55	90.16	-	-
95	07	Ma Mhwe Kwin	80	40	40	16	40.00	23	57.50	1	2.50
96	05	Oo Pait	149	76	73	76	100.00	-	-	-	-
97	12	Tha Mein Pa Le	96	58	38	37	63.79	17	29.31	4	6.90
98	05	Gaw Du	115	3	112	1	33.33	1	33.33	1	33.33
99	13	Ah Shayt Phyar	350	-	350	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	-	113	-	-	-	-	-	-
Total			10,470	2,912	7,558	732		1,081		1,099	

Table 1.12 Sown Area by Type of Crop

No.	Vlg Code	Village Name	Total Households	Monsoon Paddy		Summer Paddy		Seasum		Sunflower		Groundnut		Green gram(Paedesein)		Black-eyed pea(Bocate)		Green gram(Matpae)		Cow pea(paelon)		Beetle Vines		Beetle Nuts		Coconut Palm		Banana		Nipa Palm		Others	
				Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area	Area Ha.	% of cultivated area
72	19	Koe La Tar	78	204.80	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
73	21	Ngote Chaung	55	226.40	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
74	32	Sar Oh Chaung	56	258.40	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
75	29	Taung Ywar Chaung	94	440.00	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
76	03	Auk seik Kwin	146	60.00	60.5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.00	18.1%	17.20	17.3%	-	-	4.00	4.0%	-	-		
77	09	Nauk Pyan Toe (Let Wave	62	150.00	94.9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00	5.1%	-	-	
78	10	Kan Ma Lar Gyi (War War	135	319.20	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
79	12	Htup Koe/Kwin Chaung	162	167.60	95.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.00	4.6%	-	-		
80	04	Hnit Char	82	82.00	97.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	2.4%	-	-	-	-	-	-	-	
81	03	Thaing Chaung Gyi	46	29.20	82.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	1.1%	6.00	16.9%	-	-	-	-	-	-	-	
82	08	Byu Chaung Gyi	141	120.00	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
83	01	Te Pin Seik	172	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	1.3%	9.20	14.8%	-	-	52.00	83.9%	-	-	-	
84	03	Ah Shayt Mayan	101	10.80	29.7%	-	-	0.80	2.2%	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	2.2%	8.00	22.0%	-	-	16.00	44.0%	-	-	
85	04	Kwin Chaung	110	48.00	78.9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	4.6%	-	-	10.00	16.4%	-	-	-	
86	11	Kyein Chaung Gyi	75	74.00	93.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.20	6.6%	-	-	-	-	-	-	-	
87	02	Ah Nauk Mayan	128	32.40	51.9%	-	-	3.20	5.1%	-	-	-	-	-	0.80	1.3%	-	-	-	-	-	-	6.00	9.6%	16.00	25.6%	-	-	4.00	6.4%	-	-	
88	02	Lay Pin Chaung	119	38.40	43.6%	-	-	0.40	0.5%	-	-	-	-	-	-	-	-	-	-	-	0.80	0.9%	0.40	0.5%	48.00	54.5%	-	-	-	-	-	-	
89	06	Kan Nar Kwin	97	4.80	9.2%	-	-	0.40	0.8%	-	-	-	-	-	-	-	-	-	-	1.20	2.3%	-	-	-	40.00	76.3%	-	-	6.00	11.5%	-	-	
90	04	Ba Aye Kone(Kan Gyi Kor	57	8.40	10.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	0.5%	58.80	73.9%	-	-	12.00	15.1%	-	-	-	
91	08	Thar Yar Kone	24	11.20	100.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
92	02	Seik Ma (West)	101	31.60	98.8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	1.3%	-	-	-	-	-	-	-	
93	03	Taw Kyoe	120	71.20	79.1%	-	-	8.80	9.8%	-	-	0.40	0.4%	-	-	-	-	-	-	-	4.80	5.3%	-	-	2.00	2.2%	-	-	2.80	3.1%	-	-	
94	16	Ka Nyin Kone	72	23.20	33.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	2.3%	4.00	5.8%	40.00	58.1%	-	-	-	-	-	-	
95	07	Ma Mhwe Kwin	80	2.80	8.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	4.9%	24.00	74.1%	-	-	4.00	12.3%	-	-	-	
96	05	Oo Pait	149	22.00	44.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.00	48.0%	-	-	4.00	8.0%	-	-	-	
97	12	Tha Mein Pa Le	96	72.00	58.4%	-	-	8.00	6.5%	-	-	0.80	0.6%	-	-	6.40	5.2%	-	-	1.60	1.3%	-	-	-	30.00	24.4%	-	-	4.40	3.6%	-	-	
98	05	Gaw Du	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	10.5%	-	-	6.80	89.5%	-	-	-	
Total			9,936	13,050		3	57	32	1	278	66	4	8	56	40	462	7	326	0														

Table 1.13 Yield per Unit Area by Village by Species

No.	Vlg Code	Village Name	Total Households	Paddy	Summer Paddy	Seasumum	Sunflower	Groundnut	Green gram (Paedesein)	Black-eyed	Green gram (Matpae)	Cow pea (Paelon)	Beate Vines	Beate Nuts	Coconut Palm	Banana	Nipa Palm	Others
				kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	kgms/ha	nos/ha	nos/ha	bunchs/ha	thatchs/ha
73	21	Ngote Chaung	55	2,086	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74	32	Sar Oh Chaung	56	1,825	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	29	Taung Ywar Chaung	94	1,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76	03	Auk seik Kwin	146	1,565	-	-	-	-	-	-	-	-	-	45,000	4,375	-	6,050	-
77	09	Nauk Pyan Toe (Let Wave	62	2,347	-	-	-	-	-	-	-	-	-	-	-	-	6,250	-
78	10	Kan Ma Lar Gyi (War War	135	2,243	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79	12	Htup Koe/Kwin Chaung	162	1,565	-	-	-	-	-	-	-	-	-	-	-	-	5,625	-
80	04	Hnit Char	82	1,825	-	-	-	-	-	-	-	-	-	-	4,125	-	-	-
81	03	Thaing Chaung Gyi	46	1,825	-	-	-	-	-	-	-	-	-	87,500	3,500	-	-	-
82	08	Byu Chaung Gyi	141	2,086	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	172	-	-	-	-	-	-	-	-	-	-	112,500	4,750	-	10,000	-
84	03	Ah Shayt Mayan	101	1,304	-	245	-	-	-	-	-	-	-	87,500	4,250	-	10,000	-
85	04	Kwin Chaung	110	1,460	-	-	-	-	-	-	-	-	-	-	3,000	-	6,875	-
86	11	Kyein Chaung Gyi	75	1,304	-	-	-	-	-	-	-	-	-	-	7,000	-	-	-
87	02	Ah Nauk Mayan	128	1,304	-	184	-	-	-	245	-	-	-	87,500	4,250	-	8,750	-
88	02	Lay Pin Chaung	119	1,304	-	245	-	-	-	-	-	-	1,633	87,500	3,750	-	-	-
89	06	Kan Nar Kwin	97	1,304	-	61	-	-	-	-	-	327	-	-	4,000	-	7,500	-
90	04	Ba Aye Kone(Kan Gyi Kor	57	1,565	-	-	-	-	-	-	-	-	-	75,000	3,000	-	13,750	-
91	08	Thar Yar Kone	24	1,304	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	101	1,043	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-
93	03	Taw Kyoe	120	1,043	-	184	-	850	-	-	-	327	-	-	4,000	-	10,000	-
94	16	Ka Nyin Kone	72	1,304	-	-	-	-	-	-	-	-	3,265	37,500	4,750	-	-	-
95	07	Ma Mhwe Kwin	80	1,565	-	-	-	-	-	-	-	-	-	100,000	4,000	-	10,000	-
96	05	Oo Pait	149	2,608	-	-	-	-	-	-	-	-	-	-	4,000	-	10,750	-
97	12	Tha Mein Pa Le	96	1,304	-	245	-	1,134	-	653	-	571	-	-	4,500	-	10,000	-
98	05	Gaw Du	115	-	-	-	-	-	-	-	-	-	-	-	4,000	-	10,750	-
Total			9,936	183,218	2,868	1,531	254	1,984	3,265	5,551	163	1,224	11,224	1,240,000	217,538	2,625	469,550	2,750

1 basket = 20.86168 kgm

1 basket = 46 lbs

Table 1.14 Distribution of Households by Forest Area and Wasted Paddy Land

No.	Vlg Code	Village Name	All household	Forest Land (ha)										Wasted Paddy Land (ha)					
				No Land		< 0.4 ha		0.4 - 1.2 ha		1.2 - 4 ha		> 4 ha		< 1.2 ha		1.2 - 4 ha		> 4 ha	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
Kyakankwinpauk																			
1	07	Kyar Kan Su	58	50	86.2	-	-	8	13.8	-	-	-	-	-	-	-	-	-	
2	07	Na Khaung Pauk	64	64	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
3	03	Mi Ya Htar	101	101	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
4	09	Kyaung Shar	133	103	77.4	-	-	-	15	11.3	15	11.3	-	-	-	-	-		
5	01	Tha Byu Kone	140	140	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
6	07	Mi Oo	38	33	86.8	-	-	5	13.2	-	-	-	-	-	-	-	-		
7	07	Daunt Gyi Kone	75	75	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
8	08	Koe Bo (L)	122	121	99.2	-	-	1	0.8	-	-	-	-	-	-	-	-		
9	12	Nyan Kwin	99	99	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
10	05	Myin Ka Kone	66	62	93.9	-	-	-	-	-	4	6.1	-	-	-	-	-		
11	02	Zin Pyun Kone	73	73	100.0	-	-	-	-	-	-	-	-	2	2.7	-	-		
12	14	Kan Thar Yar	46	46	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
13	12	Kanu Kamar	109	94	86.2	-	-	-	8	7.3	7	6.4	-	-	-	-	-		
14	01	Sa Lu Seik	238	238	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
15	05	Kwin Thone Sint	72	72	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
16	01	Yway	125	125	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
17	03	Pyin Kanu Kone	105	105	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
18	06	Pyin Kanu Wah	122	122	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
Pyinalan																			
19	04	Sit Kone	70	68	97.1	-	-	2	2.9	-	-	-	-	-	-	-	-		
20	11	Kan Nyi Naung	68	64	94.1	1	1.5	-	3	4.4	-	-	-	-	-	-	-		
21	12	Ye Twin Kone	69	65	94.2	-	-	4	5.8	-	-	-	-	-	-	-	-		
22	17	Nga Dan Ta Ya	36	36	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
23	21	Mya Kyun Thar	43	39	90.7	1	2.3	2	4.7	-	1	2.3	-	-	-	-	-		
24	22	Hngat Thike	41	32	78.0	9	22.0	-	-	-	-	-	-	-	-	-	-		
25	24	Ngat Kya	50	41	82.0	6	12.0	3	6.0	-	-	-	-	-	-	-	-		
26	23	Gaw Thu We Chaung	61	60	98.4	-	-	1	1.6	-	-	-	-	-	-	-	-		
27	25	Gaw Thu (North)	28	28	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
28	26	Htin Su	42	42	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
29	08	Pho Na Ko	134	124	92.5	-	-	10	7.5	-	-	-	-	-	-	-	-		
30	03	Chan Thar Aye Kone	98	58	59.2	-	-	25	25.5	15	15.3	-	-	-	-	-	-		
31	05	Nga Phone	54	47	87.0	-	-	-	-	-	7	13.0	-	-	-	-	-		
32	17	Phayarlay	18	13	72.2	-	-	-	5	27.8	-	-	5	27.8	-	3	16.7		
33	18	Sin Htwet	27	20	74.1	-	-	-	4	14.8	3	11.1	-	-	-	-	-		
34	04	Ta Loke Kone	30	30	100.0	-	-	-	-	-	-	-	-	6	20.0	-	-		
35	05	Shwe Kone	88	81	92.0	-	-	-	6	6.8	1	1.1	-	-	-	-	-		
36	06	Ma Dauk Bo Kone	57	57	100.0	-	-	-	-	-	-	-	-	-	-	3	5.3		
37	05	Lein Maw Kone	52	52	100.0	-	-	-	-	-	-	-	5	9.6	-	-	-		
38	08	Shaw Ni	87	87	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
39	04	Nyaung Ta Pin	55	55	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
40	01	Da Ni Seik	96	96	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
41	07	Ywar Lay Chaung	93	41	44.1	-	-	-	52	55.9	-	-	-	-	-	-	-		
42	03	Pain Nae Kone	336	180	53.6	-	-	-	156	46.4	-	-	-	-	-	-	-		
43	07	Thar Yar Kone	61	11	18.0	-	-	-	-	-	50	82.0	-	-	-	-	-		
44	13	Kine Thaug	404	397	98.3	-	-	7	1.7	-	-	-	2	0.5	-	-	-		
Kadonkani																			
45	07	Ka La Tan(Myit Tan)	32	31	96.9	1	3.1	-	-	-	-	-	-	-	-	-	-		
46	30	Ye Win	72	72	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
47	33	Ye Kyaw Kauk	76	76	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
48	29	Myin Ka Oak	80	80	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
49	66	Chung)	51	51	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
50	70	Tha Bot Sa Khan	41	41	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
51	72	Aung Hlaing (Kywe Te)	35	35	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
52	20	Kyun Thar Yar	140	138	98.6	-	-	2	1.4	-	-	-	-	-	-	-	-		
53	67	Htaik Chaung Myit Tan	49	49	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
54	49	Atwin Mayan	120	120	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
55	71	Pauk Sein Kya	61	61	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
56	19	Nga Pe Chaung	36	36	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
57	69	Hnar Gyi	79	79	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
58	01	Kadon Kani	995	992	99.7	1	0.1	2	0.2	-	-	-	-	-	-	-	-		
59	03	Ywar Ka Lay*	121	119	98.3	2	1.7	-	-	-	-	-	-	-	-	-	-		
60	68	Kyain Chaung Phyar	60	60	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
61	01	Aye Yar	701	698	99.6	3	0.4	-	-	-	-	-	-	10	1.4	-	-		
62	02	Tauk Tar Kone	64	58	90.6	6	9.4	-	-	-	-	-	5	7.8	-	-	-		
63	04	Shwe Sar Yan	73	73	100.0	-	-	-	-	-	-	-	14	19.2	-	-	-		
64	05	Kwin	23	23	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
65	09	Kywe Phyu	71	71	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
66	73	Aing Gyi Kwin	41	40	97.6	1	2.4	-	-	-	-	-	4	9.8	-	-	-		
Pyindaye																			
67	30	Asi Lay	70	70	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
68	22	War Kwin	25	25	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
69	16	Nga Pha Chaung	116	116	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
70	17	Kyun Thit Su	48	48	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
71	18	Ywar Thar Aye*	70	70	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
72	19	Koe La Tar	78	56	71.8	-	-	14	17.9	6	7.7	2	2.6	-	-	-	-		
73	21	Ngote Chaung	55	55	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
74	32	Sar Oh Chaung	56	56	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
75	29	Taug Ywar Chaung	94	94	100.0	-	-	-	-	-	-	-	-	-	-	-	-		

Table 1.14 Distribution of Households by Forest Area and Wasted Paddy Land

No.	Vlg Code	Village Name	All household	Forest Land (ha)										Wasted Paddy Land (ha)						
				No Land		< 0.4 ha		0.4 - 1.2 ha		1.2 - 4 ha		> 4 ha		< 1.2 ha		1.2 - 4 ha		> 4 ha		
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	
76	03	Auk seik Kwin	146	146	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77	09	Wave Saing)	62	61	98.4	-	-	1	1.6	-	-	-	-	-	-	-	-	-	-	-
78	10	War Win)	135	135	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79	12	Htup Koe/Kwin Chaung	162	162	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	04	Hnit Char	82	82	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	03	Thaing Chaung Gyi	46	46	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82	08	Byu Chaung Gyi	141	139	98.6	2	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	172	158	91.9	-	-	-	-	9	5.2	5	2.9	-	-	20	11.6	8	4.7	-
84	03	Ah Shayt Mayan	101	79	78.2	20	19.8	2	2.0	-	-	-	-	-	-	30	29.7	-	-	-
85	04	Kwin Chaung	110	110	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
86	11	Kyein Chaung Gyi	75	73	97.3	-	-	2	2.7	-	-	-	-	-	-	-	-	-	-	-
87	02	Ah Nauk Mayan	128	126	98.4	-	-	-	-	2	1.6	-	-	-	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	118	99.2	1	0.8	-	-	-	-	-	-	53	44.5	1	0.8	-	-	-
89	06	Kan Nar Kwin	97	96	99.0	-	-	-	-	-	-	1	1.0	1	1.0	14	14.4	-	-	-
90	04	Kone)	57	57	100.0	-	-	-	-	-	-	-	-	18	31.6	20	35.1	-	-	-
91	08	Thar Yar Kone	24	24	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	101	101	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93	03	Taw Kyoe	120	117	97.5	3	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-
94	16	Ka Nyin Kone	72	11	15.3	-	-	20	27.8	35	48.6	6	8.3	-	-	45	62.5	-	-	-
95	07	Ma Mhwe Kwin	80	45	56.3	10	12.5	20	25.0	5	6.3	-	-	12	15.0	23	28.8	1	1.3	-
96	05	Oo Pait	149	149	100.0	-	-	-	-	-	-	-	-	60	40.3	-	-	-	-	-
97	12	Tha Mein Pa Le	96	96	100.0	-	-	-	-	-	-	-	-	28	29.2	-	-	-	1	1.0
98	05	Gaw Du	115	114	99.1	1	0.9	-	-	-	-	-	-	1	0.9	1	0.9	1	0.9	-
99	13	Ah Shayt Phyar	350	350	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	113	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			10,470	9,848	9337.6	68	92.8	131	162.0	321	259.4	102	148.1	208	237.1	172	208.0	17	29.7	-

Table 1.15 Distribution of Households Producing Forest Products

No.	Vlg Code	Village Name	All household	Charcoal		Log (processed)		Log (non-processed)		Leaf / Branch		NWFPs		Fruits		Others		None	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
73	21	Ngote Chaung	55	-	-	-	-	55	100.0	-	-	-	-	-	-	-	-	-	-
74	32	Sar Oh Chaung	56	-	-	-	-	56	100.0	-	-	-	-	-	-	-	-	-	-
75	29	Taung Ywar Chaung	94	-	-	-	-	94	100.0	-	-	-	-	-	-	-	-	-	-
76	03	Auk seik Kwin	146	-	-	-	-	146	100.0	-	-	-	-	-	-	-	-	-	-
77	09	Wave Saing)	62	-	-	-	-	62	100.0	-	-	-	-	-	-	-	-	-	-
78	10	War Win)	135	-	-	-	-	135	100.0	-	-	-	-	-	-	-	-	-	-
79	12	Htup Koe/Kwin Chaung	162	-	-	162	100.0	-	-	-	-	-	-	-	-	-	-	-	-
80	04	Hnit Char	82	1	1.2	4	4.9	77	93.9	-	-	-	-	-	-	-	-	-	-
81	03	Thaing Chaung Gyi	46	-	-	1	2.2	45	97.8	-	-	-	-	-	-	-	-	-	-
82	08	Byu Chaung Gyi	141	-	-	-	-	141	100.0	-	-	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	172	-	-	-	-	172	100.0	-	-	-	-	-	-	7	4.1	-	-
84	03	Ah Shayt Mayan	101	-	-	-	-	101	100.0	-	-	-	-	-	-	-	-	-	-
85	04	Kwin Chaung	110	-	-	5	4.5	105	95.5	-	-	-	-	-	-	-	-	-	-
86	11	Kyein Chaung Gyi	75	-	-	-	-	75	100.0	-	-	-	-	-	-	-	-	-	-
87	02	Ah Nauk Mayan	128	-	-	-	-	128	100.0	-	-	-	-	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	-	-	-	-	119	100.0	-	-	-	-	-	-	-	-	-	-
89	06	Kan Nar Kwin	97	6	6.2	15	15.5	76	78.4	-	-	-	-	-	-	-	-	-	-
90	04	Kone)	57	-	-	-	-	57	100.0	-	-	-	-	-	-	12	21.1	-	-
91	08	Thar Yar Kone	24	-	-	-	-	24	100.0	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	101	-	-	-	-	101	100.0	-	-	-	-	-	-	-	-	-	-
93	03	Taw Kyoe	120	-	-	2	1.7	120	100.0	-	-	-	-	-	-	-	-	-	-
94	16	Ka Nyin Kone	72	-	-	-	-	72	100.0	-	-	-	-	-	-	-	-	-	-
95	07	Ma Mhwe Kwin	80	8	10.0	-	-	72	90.0	-	-	-	-	-	-	-	-	-	-
96	05	Oo Pait	149	9	6.0	30	20.1	110	73.8	-	-	-	-	-	-	-	-	-	-
97	12	Tha Mein Pa Le	96	10	10.4	-	-	86	89.6	-	-	-	-	-	-	-	-	-	-
98	05	Gaw Du	115	-	-	-	-	115	100.0	-	-	-	-	-	-	-	-	-	-
99	13	Ah Shayt Phyar	350	-	-	-	-	265	75.7	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			10,470	40		1,351		5,840		1,791		10		-		619		-	

Table 1.16 Distribution of Households by Fishery Equipments and Production Facilities

No.	Vlg Code	Village Name	All household	# of Fishery HHHs		Fish Pond		Crab Pond		Shrimp Pond		Fishing Net		Others	
				No	%	No	%	No	%	No	%	No	%	No	%
Kyakankwinpauk															
1	07	Kyar Kan Su	58	1	1.7	-	-	-	-	-	-	4	400.0	-	-
2	07	Na Khaung Pauk	64	4	6.3	1	25.0	-	-	-	-	9	225.0	-	-
3	03	Mi Ya Htar	101	6	5.9	-	-	-	-	-	-	6	100.0	-	-
4	09	Kyaung Shar	133	40	30.1	-	-	1	2.5	-	-	40	100.0	-	-
5	01	Tha Byu Kone	140	12	8.6	-	-	-	-	-	-	12	100.0	-	-
6	07	Mi Oo	38	1	2.6	-	-	-	-	-	-	1	100.0	-	-
7	07	Daunt Gyi Kone	75	14	18.7	-	-	-	-	-	-	14	100.0	-	-
8	08	Koe Bo (L)	122	10	8.2	-	-	-	-	-	-	10	100.0	-	-
9	12	Nyan Kwin	99	8	8.1	-	-	1	12.5	-	-	8	100.0	-	-
10	05	Myin Ka Kone	66	-	-	-	-	-	-	1	-	-	-	2	-
11	02	Zin Pyun Kone	73	8	11.0	2	25.0	-	-	5	62.5	1	12.5	-	-
12	14	Kan Thar Yar	46	6	13.0	2	33.3	2	33.3	5	83.3	7	116.7	-	-
13	12	Kanu Kamar	109	15	13.8	-	-	1	6.7	1	6.7	12	80.0	1	6.7
14	01	Sa Lu Seik	238	62	26.1	-	-	-	-	-	-	62	100.0	-	-
15	05	Kwin Thone Sint	72	1	1.4	-	-	-	-	-	-	1	100.0	-	-
16	01	Yway	125	24	19.2	-	-	-	-	1	4.2	23	95.8	-	-
17	03	Pyin Kanu Kone	105	5	4.8	-	-	-	-	-	-	5	100.0	-	-
18	06	Pyin Kanu Wah	122	11	9.0	-	-	-	-	-	-	11	100.0	-	-
Pyinalan															
19	04	Sit Kone	70	16	22.9	-	-	-	-	-	-	8	50.0	8	50.0
20	11	Kan Nyi Naung	68	2	2.9	-	-	-	-	-	-	2	100.0	-	-
21	12	Ye Twin Kone	69	1	1.4	-	-	-	-	-	-	1	100.0	-	-
22	17	Nga Dan Ta Ya	36	1	2.8	-	-	-	-	-	-	1	100.0	-	-
23	21	Mya Kyun Thar	43	5	11.6	2	40.0	-	-	2	40.0	5	100.0	-	-
24	22	Hngat Thike	41	1	2.4	-	-	-	-	-	-	1	100.0	-	-
25	24	Ngat Kya	50	6	12.0	-	-	-	-	-	-	6	100.0	-	-
26	23	Chaung	61	3	4.9	-	-	-	-	-	-	3	100.0	-	-
27	25	Gaw Thu (North)	28	1	3.6	-	-	-	-	-	-	2	200.0	-	-
28	26	Htin Su	42	1	2.4	-	-	-	-	-	-	1	100.0	-	-
29	08	Pho Na Ko	134	9	6.7	-	-	-	-	-	-	9	100.0	-	-
30	03	Chan Thar Aye Kone	98	7	7.1	-	-	3	42.9	7	100.0	7	100.0	-	-
31	05	Nga Phone	54	-	-	-	-	-	-	2	-	9	-	-	-
32	17	Phayarlay	18	-	-	-	-	1	-	1	-	-	-	-	-
33	18	Sin Htwet	27	-	-	-	-	-	-	-	-	-	-	-	-
34	04	Ta Loke Kone	30	7	23.3	-	-	-	-	1	14.3	6	85.7	-	-
35	05	Shwe Kone	88	9	10.2	-	-	2	22.2	2	22.2	5	55.6	-	-
36	06	Ma Dauk Bo Kone	57	14	24.6	-	-	1	7.1	3	21.4	14	100.0	-	-
37	05	Lein Maw Kone	52	-	-	-	-	1	-	3	-	-	-	-	-
38	08	Shaw Ni	87	9	10.3	-	-	-	-	10	111.1	9	100.0	-	-
39	04	Nyaung Ta Pin	55	4	7.3	-	-	-	-	2	50.0	1	25.0	1	25.0
40	01	Da Ni Seik	96	14	14.6	-	-	1	7.1	-	-	14	100.0	-	-
41	07	Ywar Lay Chaung	93	14	15.1	-	-	-	-	-	-	16	114.3	-	-
42	03	Pain Nae Kone	336	10	3.0	-	-	2	20.0	6	60.0	4	40.0	-	-
43	07	Thar Yar Kone	61	-	-	-	-	1	-	5	-	-	-	-	-
44	13	Kine Thaug	404	83	20.5	-	-	2	2.4	-	-	83	100.0	-	-
Kadonkani															
45	07	Ka La Tan(Myit Tan)	32	2	6.3	-	-	-	-	-	-	2	100.0	-	-
46	30	Ye Win	72	-	-	-	-	-	-	-	-	-	-	-	-
47	33	Ye Kyaw Kauk	76	6	7.9	-	-	-	-	-	-	6	100.0	2	33.3
48	29	Myin Ka Oak	80	3	3.8	-	-	-	-	-	-	3	100.0	2	66.7
49	66	Chung)	51	8	15.7	-	-	2	25.0	-	-	8	100.0	1	12.5
50	70	Tha Bot Sa Khan	41	1	2.4	-	-	-	-	-	-	1	100.0	-	-
51	72	Te)	35	11	31.4	-	-	-	-	-	-	11	100.0	1	9.1
52	20	Kyun Thar Yar	140	15	10.7	-	-	-	-	-	-	15	100.0	4	26.7
53	67	Tan	49	4	8.2	-	-	-	-	-	-	4	100.0	2	50.0
54	49	Atwin Mayan	120	1	0.8	-	-	-	-	-	-	1	100.0	-	-
55	71	Pauk Sein Kya	61	20	32.8	-	-	-	-	-	-	20	100.0	-	-
56	19	Nga Pe Chaung	36	9	25.0	-	-	-	-	-	-	9	100.0	1	11.1
57	69	Hnar Gyi	79	1	1.3	-	-	-	-	-	-	1	100.0	1	100.0
58	01	Kadon Kani	995	43	4.3	-	-	-	-	-	-	43	100.0	37	86.0
59	03	Ywar Ka Lay*	121	26	21.5	-	-	-	-	-	-	26	100.0	3	11.5
60	68	Kyain Chaung Phyar	60	2	3.3	-	-	-	-	-	-	2	100.0	1	50.0
61	01	Aye Yar	701	70	10.0	-	-	-	-	2	2.9	68	97.1	27	38.6
62	02	Tauk Tar Kone	64	6	9.4	-	-	-	-	-	-	6	100.0	2	33.3
63	04	Shwe Sar Yan	73	-	-	-	-	-	-	-	-	-	-	-	-
64	05	Ein Gyi Kwin	23	-	-	-	-	-	-	-	-	-	-	-	-
65	09	Kywe Phyu	71	46	64.8	-	-	-	-	-	-	46	100.0	1	2.2
66	73	Aing Gyi Kwin	41	-	-	-	-	-	-	-	-	-	-	-	-
Pyindaye															
67	30	Asi Lay	70	-	-	-	-	-	-	-	-	-	-	-	-
68	22	War Kwin	25	-	-	-	-	-	-	-	-	-	-	-	-
69	16	Nga Pha Chaung	116	-	-	-	-	-	-	-	-	-	-	-	-
70	17	Kyun Thit Su	48	5	10.4	-	-	-	-	-	-	4	80.0	1	20.0
71	18	Ywar Thar Aye*	70	4	5.7	-	-	-	-	-	-	4	100.0	-	-
72	19	Koe La Tar	78	5	6.4	1	20.0	-	-	-	-	4	80.0	-	-

Table 1.16 Distribution of Households by Fishery Equipments and Production Facilities

No.	Vlg Code	Village Name	All household	# of Fishery HHHs		Fish Pond		Crab Pond		Shrimp Pond		Fishing Net		Others	
				No	%	No	%	No	%	No	%	No	%	No	%
73	21	Ngote Chaung	55	-	-	-	-	-	-	-	-	-	-	-	-
74	32	Sar Oh Chaung	56	-	-	-	-	-	-	-	-	-	-	-	-
75	29	Taung Ywar Chaung	94	1	1.1	-	-	-	-	-	-	1	100.0	-	-
76	03	Auk seik Kwin	146	5	3.4	-	-	5	100.0	-	-	-	-	-	-
77	09	Wave Saing)	62	-	-	-	-	-	-	-	-	-	-	-	-
78	10	(War War Win)	135	-	-	-	-	-	-	-	-	-	-	-	-
79	12	Chaung	162	13	8.0	-	-	1	7.7	-	-	12	92.3	-	-
80	04	Hnit Char	82	-	-	-	-	-	-	-	-	-	-	-	-
81	03	Thaing Chaung Gyi	46	-	-	-	-	-	-	-	-	-	-	-	-
82	08	Byu Chaung Gyi	141	3	2.1	-	-	-	-	-	-	3	100.0	-	-
83	01	Te Pin Seik	172	15	8.7	-	-	-	-	-	-	12	80.0	-	-
84	03	Ah Shayt Mayan	101	-	-	-	-	-	-	-	-	-	-	-	-
85	04	Kwin Chaung	110	14	12.7	-	-	-	-	-	-	6	42.9	8	57.1
86	11	Kyein Chaung Gyi	75	-	-	-	-	-	-	-	-	-	-	-	-
87	02	Ah Nauk Mayan	128	-	-	-	-	-	-	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	-	-	-	-	-	-	-	-	-	-	-	-
89	06	Kan Nar Kwin	97	4	4.1	-	-	-	-	-	-	-	-	3	75.0
90	04	Gyi Kone)	57	-	-	-	-	-	-	-	-	-	-	-	-
91	08	Thar Yar Kone	24	4	16.7	-	-	-	-	-	-	4	100.0	-	-
92	02	Seik Ma (West)	101	20	19.8	-	-	-	-	-	-	20	100.0	-	-
93	03	Taw Kyoe	120	16	13.3	-	-	-	-	3	18.8	16	100.0	-	-
94	16	Ka Nyin Kone	72	2	2.8	-	-	-	-	-	-	2	100.0	-	-
95	07	Ma Mhwe Kwin	80	-	-	-	-	-	-	-	-	-	-	-	-
96	05	Oo Pait	149	1	0.7	-	-	-	-	-	-	-	-	-	-
97	12	Tha Mein Pa Le	96	-	-	-	-	-	-	-	-	-	-	-	-
98	05	Gaw Du	115	28	24.3	-	-	-	-	-	-	28	100.0	13	46.4
99	13	Ah Shayt Phyar	350	53	15.1	-	-	-	-	-	-	53	100.0	53	100.0
100	17	Khat Tar Kyun	113	57	50.4	-	-	-	-	-	-	57	100.0	12	21.1
Total			10,470	969		8		27		62		931		187	

Table 1.17 Number of Educational Institutions, Health Institutions and Medical Facilities

No.	Vlg Code	Village Name	Number of schools and				commute from the village								Number of Medical Facility and Distance (in kilometer)										Pier
			Monastic S.		Primary S.		Middle S.		High S.		Others1		Others2		Station hospital		RHC		Sub-RHC		Private clinic		Others		
			No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours	No.	Hours	Distance	Hours	Distance	Hours	Distance	Hours	Distance	Hours	
94	16	Ka Nyin Kone	1	-	1	-	1	2.00	1	2.00	1	1.50	-	-	102.98	6.00	24.14	2.25	16.09	1.50	-	-	-	-	-
95	07	Ma Mhwe Kwin	1	-	2	-	1	2.00	1	2.00	-	-	-	-	80.45	6.50	16.09	4.00	3.22	0.50	-	-	-	-	-
96	05	Oo Pait	1	-	1	-	1	0.75	1	0.75	-	-	-	-	48.27	6.00	16.09	2.00	1.61	0.50	-	-	-	-	-
97	12	Tha Mein Pa Le	1	-	1	-	1	2.00	1	2.00	-	-	-	-	96.54	6.00	16.09	1.50	16.09	1.50	-	-	-	-	-
98	05	Gaw Du	1	-	1	-	1	-	1	4.50	1	12.00	1	12.00	96.54	4.50	12.87	1.00	9.65	0.75	-	-	-	-	1
99	13	Ah Shayt Phyar	1	-	1	-	1	-	1	2.00	-	-	-	-	112.63	7.00	16.09	2.00	16.09	2.00	-	-	-	-	1
100	17	Khat Tar Kyun	1	-	1	-	1	-	1	1.50	-	-	-	-	90.10	6.00	16.09	1.50	16.09	1.50	1.61	0.15	-	-	-
Total			75	12	89	10	63	77	61	130	6	14	1	12	4,722	423	1,318	142	787	97	555	68	21	2	29

Table 1.18 Number of Communications, Transportations and Entertainment Facilities

No.	Vlg Code	Village Name	All households	Telephone		Television		Radio / cassette		Row Boat		Power Boat		Motor car/		Motor		Bicycle		Generator		Electricity		Others	
				No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
94	16	Ka Nyin Kone	72	-	-	1	1.4	10	13.9	40	55.6	-	-	-	-	-	-	40	55.6	-	-	-	-	-	-
95	07	Ma Mhwe Kwin	80	-	-	4	5.0	15	18.8	100	125.0	6	7.5	-	-	-	-	7	8.8	4	5.0	4	5.0	-	-
96	05	Oo Pait	149	-	-	5	3.4	20	13.4	60	40.3	12	8.1	1	0.7	-	-	100	67.1	3	2.0	-	-	-	-
97	12	Tha Mein Pa Le	96	-	-	6	6.3	7	7.3	40	41.7	4	4.2	-	-	-	-	3	3.1	4	4.2	-	-	-	-
98	05	Gaw Du	115	-	-	7	6.1	11	9.6	32	27.8	13	11.3	-	-	-	-	2	1.7	10	8.7	10	8.7	-	-
99	13	Ah Shayt Phyar	350	-	-	10	2.9	120	34.3	50	14.3	60	17.1	-	-	-	-	6	1.7	55	15.7	75	21.4	-	-
100	17	Khat Tar Kyun	113	-	-	5	4.4	10	8.8	35	31.0	20	17.7	-	-	-	-	-	-	7	6.2	4	3.5	-	-
Total			10,470	2	3.0	706	633.3	1,649	1319.8	4,234	4636.8	703	581.1	25	29.7	4	1.2	774	538.2	373	240.3	766	337.5	72	111.8

Table 1.19 Number of Main Drinking Water Sources

No.	Vlg Code	Village Name	All households	Piped				Dug well				Tube well				Pond				River/creek				Rain water tank				Others				
				Rain		Dry		Rain		Dry		Rain		Dry		Rain		Dry		Rain		Dry		Rain		Dry		Rain		Dry		
				No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
72	19	Koe La Tar	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	100.0	-	-	-	-	78	100.0	
73	21	Ngote Chaung	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	100.0	-	-	-	-	55	100.0	
74	32	Sar Oh Chaung	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	100.0	-	-	-	-	56	100.0	
75	29	Taung Ywar Chaung	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	100.0	-	-	-	-	94	100.0	
76	03	Auk seik Kwin	146	-	-	-	-	20	13.7	20	13.7	-	-	-	-	126	86.3	126	86.3	-	-	-	-	-	-	-	-	-	-	-	-	
77	09	Saing)	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	100.0	-	-	-	-	62	100.0	
78	10	Kan Ma Lar Gyi (War War Win)	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135	100.0	-	-	-	-	135	100.0	
79	12	Htup Koe/Kwin Chaung	162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162	100.0	-	-	-	-	162	100.0	
80	04	Hnit Char	82	-	-	-	-	-	-	28	34.1	-	-	-	-	-	-	-	-	-	-	-	-	82	100.0	-	-	-	-	54	65.9	
81	03	Thaing Chaung Gyi	46	-	-	-	-	-	-	-	-	-	-	-	46	100.0	46	100.0	-	-	-	-	-	-	-	-	-	-	-	-		
82	08	Byu Chaung Gyi	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141	100.0	-	-	-	-	141	100.0	
83	01	Te Pin Seik	172	-	-	-	-	89	51.7	89	51.7	-	-	-	-	-	-	-	-	-	-	-	-	83	48.3	83	48.3	-	-	-	-	
84	03	Ah Shayt Mayan	101	-	-	-	-	-	-	101	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	101	100.0	-	-	-	-	-	-
85	04	Kwin Chaung	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	100.0	-	-	-	-	110	100.0	
86	11	Kyein Chaung Gyi	75	-	-	-	-	-	-	39	52.0	-	-	-	-	-	-	-	-	-	-	-	-	75	100.0	-	-	-	-	36	48.0	
87	02	Ah Nauk Mayan	128	-	-	-	-	-	-	128	100.0	-	-	-	-	-	-	-	-	-	-	-	-	128	100.0	-	-	-	-	-	-	
88	02	Lay Pin Chaung	119	-	-	-	-	7	5.9	7	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112	94.1	112	94.1	
89	06	Kan Nar Kwin	97	-	-	-	-	97	100.0	97	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
90	04	Ba Aye Kone(Kan Gyi Kone)	57	-	-	-	-	57	100.0	57	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
91	08	Thar Yar Kone	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	100.0	24	100.0	-	-	-	-	-	-	-	-	-	-	
92	02	Seik Ma (West)	101	-	-	-	-	-	-	-	-	-	-	-	101	100.0	101	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
93	03	Taw Kyoe	120	-	-	-	-	-	-	-	-	-	-	-	120	100.0	120	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
94	16	Ka Nyin Kone	72	-	-	-	-	3	4.2	3	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	95.8	69	95.8	
95	07	Ma Mhwe Kwin	80	-	-	-	-	80	100.0	80	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
96	05	Oo Pait	149	-	-	-	-	149	100.0	149	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
97	12	Tha Mein Pa Le	96	-	-	-	-	-	-	96	100.0	-	-	-	-	-	-	-	-	-	-	-	-	96	100.0	-	-	-	-	-	-	
98	05	Gaw Du	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	100.0	-	-	-	-	115	100.0	
99	13	Ah Shayt Phyar	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	100.0	-	-	-	-	350	100.0	
100	17	Khat Tar Kyun	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	100.0	-	-	-	-	113	100.0	
Total			10,470	-	-	-	-	996	2,405	-	-	-	-	1,614	3,361	24	145	7,584	115	252	4,444	-	-	-	-	-	-	-	-	-	-	

Table 1.20 Customary Regulation, Land Tenure, Taboo and Leadership

Table with 33 columns: No., Vig Code, Village Name, Number and type of cooperative works, Lent (13 categories), Tabooos (10 categories), and Leader / Chief (10 categories). Rows include villages like Kyakankwinpauk, Pyinalan, Kadonkani, and Pyindaye.

Table 1.20 Customary Regulation, Land Tenure, Taboo and Leadership

No.	Vig Code	Village Name	Number and type of cooperative works			Lent														Taboos								Leader / Chief (type and selection)																						
			Village development activities	Helping each others activities	Educational activities	Social activities	Religious & seasonal festivals activities	Traditional ceremonies	* Paddy weight 417 kgms per 0.4 ha	* Paddy weight 355 kgms per 0.4 ha	* Paddy weight 313 kgms per 0.4 ha	* Paddy weight 271 kgms per 0.4 ha	* Paddy weight 250 kgms per 0.4 ha	* Paddy weight 208 kgms per 0.4 ha	* Paddy weight 167 kgms per 0.4 ha	* Paddy weight 146 kgms per 0.4 ha	* Paid 1/3 of production to watchman	* 50% of net income	For each 100 banches of nipa products will pay 50 kyeats	Till without breaking land legislation	Not stated clearly	None	Community instruction for hazard reduction	Restriction of safe water and better sanitation	Drugs and liquere abuse, gambling	Standing orders and instructions	Biblical restrictions	Taboo in Agri-farming	Taboo in Fishery	Indecent acts	Spiritual and traditional	No taboo	None response	Public select 100 households head	Selecte d by community but under control by townshi	Direct select by townships authorities	Selecte d by community but under supervision of knowledgeable	Assignin g by village leader	Village tract authorities select 100 households head	100 household select 10 households head	Communit y voting for CBOs	None respons e / Not related								
71	18	Ywar Thar Aye*	-	-	-	1	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
72	19	Koe La Tar	-	-	-	1	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
73	21	Ngote Chaung	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
74	32	Sar Oh Chaung	-	-	-	1	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
75	29	Taung Ywar Chaung	-	-	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-			
76	03	Auk seik Kwin	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-			
77	09	Wave Saing)	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-			
78	10	War Win)	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-			
79	12	Htup Koe/Kwin Chaung	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
80	04	Hnit Char	-	-	-	1	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-		
81	03	Thaing Chaung Gyi	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
82	08	Byu Chaung Gyi	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-			
83	01	Te Pin Seik	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-			
84	03	Ah Shayt Mayan	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
85	04	Kwin Chaung	-	-	-	1	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
86	11	Kyein Chaung Gyi	-	-	-	1	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
87	02	Ah Nauk Mayan	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-		
88	02	Lay Pin Chaung	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
89	06	Kan Nar Kwin	1	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
90	04	Kone)	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
91	08	Thar Yar Kone	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
92	02	Seik Ma (West)	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
93	03	Taw Kyoe	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
94	16	Ka Nyin Kone	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
95	07	Ma Mhwe Kwin	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	05	Oo Pait	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
97	12	Tha Mein Pa Le	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-		
98	05	Gaw Du	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
99	13	Ah Shayt Phyar	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100	17	Khat Tar Kyun	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total	133	7	1	43	83	4	6	1	8	1	4	18	1	2	1	1	1	1	2	1	53	23	11	19	1	2	6	2	18	8	30	1	59	12	5	6	5	2	1	9	8							

Table 1.21 Number of Households by Type of Land Tenure

No.	Vlg Code	Village Name	All households	Number of Agricultural households		Land tenure (How did you obtain your land)							
						Heritage		Reclamation		Purchased		Others	
						No	%	No	%	No	%	No	%
Kyakankwinpauk													
1	07	Kyar Kan Su	58	8	13.8	-	-	1	12.5	7	87.5	-	-
2	07	Na Khaung Pauk	64	24	37.5	-	-	24	100.0	-	-	-	-
3	03	Mi Ya Htar	101	29	28.7	5	17.2	4	13.8	20	69.0	-	-
4	09	Kyaung Shar	133	30	22.6	-	-	30	100.0	-	-	-	-
5	01	Tha Byu Kone	140	32	22.9	32	100.0	-	-	-	-	-	-
6	07	Mi Oo	38	18	47.4	2	11.1	16	88.9	-	-	-	-
7	07	Daunt Gyi Kone	75	20	26.7	20	100.0	-	-	-	-	-	-
8	08	Koe Bo (L)	122	41	33.6	41	100.0	-	-	-	-	-	-
9	12	Nyan Kwin	99	27	27.3	-	-	27	100.0	-	-	-	-
10	05	Myin Ka Kone	66	19	28.8	19	100.0	-	-	-	-	-	-
11	02	Zin Pyun Kone	73	25	34.2	25	100.0	-	-	-	-	-	-
12	14	Kan Thar Yar	46	15	32.6	-	-	15	100.0	-	-	-	-
13	12	Kanu Kamar	109	15	13.8	-	-	15	100.0	-	-	-	-
14	01	Sa Lu Seik	238	23	9.7	23	100.0	-	-	-	-	-	-
15	05	Kwin Thone Sint	72	9	12.5	3	33.3	1	11.1	5	55.6	-	-
16	01	Yway	125	-	-	-	-	-	-	-	-	-	-
17	03	Pyin Kanu Kone	105	38	36.2	4	10.5	15	39.5	19	50.0	-	-
18	06	Pyin Kanu Wah	122	17	13.9	-	-	17	100.0	-	-	-	-
Pyinalan													
19	04	Sit Kone	70	31	44.3	2	6.5	-	-	29	93.5	-	-
20	11	Kan Nyi Naung	68	23	33.8	-	-	17	73.9	6	26.1	-	-
21	12	Ye Twin Kone	69	31	44.9	25	80.6	6	19.4	-	-	-	-
22	17	Nga Dan Ta Ya	36	10	27.8	2	20.0	-	-	8	80.0	-	-
23	21	Mya Kyun Thar	43	12	27.9	-	-	9	75.0	3	25.0	-	-
24	22	Hngat Thike	41	9	22.0	-	-	6	66.7	3	33.3	-	-
25	24	Ngat Kya	50	9	18.0	-	-	7	77.8	2	22.2	-	-
26	23	Gaw Thu We Chaung	61	9	14.8	-	-	4	44.4	5	55.6	-	-
27	25	Gaw Thu (North)	28	4	14.3	-	-	2	50.0	2	50.0	-	-
28	26	Htin Su	42	16	38.1	-	-	6	37.5	10	62.5	-	-
29	08	Pho Na Ko	134	52	38.8	7	13.5	42	80.8	3	5.8	-	-
30	03	Chan Thar Aye Kone	98	30	30.6	-	-	30	100.0	-	-	-	-
31	05	Nga Phone	54	13	24.1	13	100.0	-	-	-	-	-	-
32	17	Phayarlai	18	8	44.4	8	100.0	-	-	-	-	-	-
33	18	Sin Htwet	27	7	25.9	-	-	7	100.0	-	-	-	-
34	04	Ta Loke Kone	30	8	26.7	8	100.0	-	-	-	-	-	-
35	05	Shwe Kone	88	25	28.4	25	100.0	-	-	-	-	-	-
36	06	Ma Dauk Bo Kone	57	5	8.8	5	100.0	-	-	-	-	-	-
37	05	Lein Maw Kone	52	5	9.6	5	100.0	-	-	-	-	-	-
38	08	Shaw Ni	87	5	5.7	-	-	5	100.0	-	-	-	-
39	04	Nyaung Ta Pin	55	20	36.4	-	-	20	100.0	-	-	-	-
40	01	Da Ni Seik	96	24	25.0	-	-	24	100.0	-	-	-	-
41	07	Ywar Lay Chaung	93	22	23.7	-	-	22	100.0	-	-	-	-
42	03	Pain Nae Kone	336	36	10.7	36	100.0	-	-	-	-	-	-
43	07	Thar Yar Kone	61	26	42.6	-	-	26	100.0	-	-	-	-
44	13	Kine Thaug	404	2	0.5	-	-	2	100.0	-	-	-	-
Kadonkani													
45	07	Ka La Tan(Myit Tan)	32	3	9.4	3	100.0	-	-	-	-	-	-
46	30	Ye Win	72	34	47.2	-	-	15	44.1	19	55.9	-	-
47	33	Ye Kyaw Kauk	76	22	28.9	-	-	5	22.7	17	77.3	-	-
48	29	Myin Ka Oak	80	42	52.5	-	-	-	-	42	100.0	-	-
49	66	Chung)	51	18	35.3	-	-	18	100.0	-	-	-	-
50	70	Tha Bot Sa Khan	41	31	75.6	-	-	31	100.0	-	-	-	-
51	72	Aung Hlaing (Kywe Te)	35	11	31.4	-	-	9	81.8	2	18.2	-	-
52	20	Kyun Thar Yar	140	43	30.7	-	-	20	46.5	23	53.5	-	-
53	67	Htaik Chaung Myit Tan	49	13	26.5	-	-	1	7.7	12	92.3	-	-
54	49	Atwin Mayan	120	24	20.0	-	-	-	-	24	100.0	-	-
55	71	Pauk Sein Kya	61	30	49.2	-	-	10	33.3	20	66.7	-	-
56	19	Nga Pe Chaung	36	8	22.2	-	-	8	100.0	-	-	-	-
57	69	Hnar Gyi	79	59	74.7	-	-	59	100.0	-	-	-	-
58	01	Kadon Kani	995	27	2.7	10	37.0	2	7.4	15	55.6	-	-
59	03	Ywar Ka Lay*	121	7	5.8	-	-	1	14.3	6	85.7	-	-
60	68	Kyain Chaung Phyar	60	38	63.3	-	-	19	50.0	19	50.0	-	-
61	01	Aye Yar	701	14	2.0	-	-	14	100.0	-	-	-	-
62	02	Tauk Tar Kone	64	11	17.2	-	-	6	54.5	5	45.5	-	-
63	04	Shwe Sar Yan	73	25	34.2	18	72.0	-	-	7	28.0	-	-
64	05	Kwin	23	10	43.5	-	-	10	100.0	-	-	-	-
65	09	Kywe Phyu	71	-	-	-	-	-	-	-	-	-	-
66	73	Aing Gyi Kwin	41	11	26.8	7	63.6	4	36.4	-	-	-	-
Pyindaye													
67	30	Asi Lay	70	28	40.0	20	71.4	3	10.7	5	17.9	-	-
68	22	War Kwin	25	9	36.0	-	-	6	66.7	3	33.3	-	-
69	16	Nga Pha Chaung	116	57	49.1	-	-	27	47.4	-	-	30	52.6

Table 1.21 Number of Households by Type of Land Tenure

No.	Vlg Code	Village Name	All households	Number of Agricultural households		Land tenure (How did you obtain your land)							
						Heritage		Reclamation		Purchased		Others	
						No	%	No	%	No	%	No	%
70	17	Kyun Thit Su	48	33	68.8	-	-	26	78.8	7	21.2	-	-
71	18	Ywar Thar Aye*	70	57	81.4	-	-	54	94.7	3	5.3	-	-
72	19	Koe La Tar	78	45	57.7	-	-	45	100.0	-	-	-	-
73	21	Ngote Chaung	55	45	81.8	-	-	15	33.3	30	66.7	-	-
74	32	Sar Oh Chaung	56	40	71.4	-	-	10	25.0	30	75.0	-	-
75	29	Taung Ywar Chaung	94	55	58.5	-	-	15	27.3	40	72.7	-	-
76	03	Auk seik Kwin	146	42	28.8	42	100.0	-	-	-	-	-	-
77	09	Wave Saing)	62	62	100.0	-	-	62	100.0	-	-	-	-
78	10	War Win)	135	107	79.3	-	-	87	81.3	20	18.7	-	-
79	12	Htup Koe/Kwin Chaung	162	134	82.7	-	-	109	81.3	25	18.7	-	-
80	04	Hnit Char	82	64	78.0	-	-	64	100.0	-	-	-	-
81	03	Thaing Chaung Gyi	46	34	73.9	-	-	34	100.0	-	-	-	-
82	08	Byu Chaung Gyi	141	100	70.9	5	5.0	95	95.0	-	-	-	-
83	01	Te Pin Seik	172	28	16.3	24	85.7	-	-	4	14.3	-	-
84	03	Ah Shayt Mayan	101	50	49.5	43	86.0	5	10.0	2	4.0	-	-
85	04	Kwin Chaung	110	55	50.0	20	36.4	35	63.6	-	-	-	-
86	11	Kyein Chaung Gyi	75	35	46.7	-	-	34	97.1	1	2.9	-	-
87	02	Ah Nauk Mayan	128	52	40.6	30	57.7	22	42.3	-	-	-	-
88	02	Lay Pin Chaung	119	96	80.7	86	89.6	-	-	10	10.4	-	-
89	06	Kan Nar Kwin	97	21	21.6	19	90.5	-	-	2	9.5	-	-
90	04	Kone)	57	47	82.5	47	100.0	-	-	-	-	-	-
91	08	Thar Yar Kone	24	13	54.2	-	-	13	100.0	-	-	-	-
92	02	Seik Ma (West)	101	8	7.9	-	-	8	100.0	-	-	-	-
93	03	Taw Kyoe	120	44	36.7	41	93.2	-	-	3	6.8	-	-
94	16	Ka Nyin Kone	72	61	84.7	-	-	61	100.0	-	-	-	-
95	07	Ma Mhwe Kwin	80	40	50.0	-	-	29	72.5	11	27.5	-	-
96	05	Oo Pait	149	76	51.0	71	93.4	-	-	5	6.6	-	-
97	12	Tha Mein Pa Le	96	58	60.4	58	100.0	-	-	-	-	-	-
98	05	Gaw Du	115	3	2.6	2	66.7	-	-	1	33.3	-	-
99	13	Ah Shayt Phyar	350	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	-	-	-	-	-	-	-	-	-	-
Total			10,470	2,912	3602.8	856	2841.0	1,491	4717.1	535	1989.3	30	52.6

Table 1.22 Distribution of Agricultural Holdings

No.	Vlg Code	Village Name	All households	Number of Agricultural households		Land utilization (How did you use your land)										Duration of land tenure							
				No	%	Self cultivated		Rent to other		Utilized not in cultivation		Wasted		Others		Limited		< 10 years		10 - 30 years		30 years & over	
						No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%
78	10	(War War Win)	135	107	79.3	106	99.1	-	-	1	0.9	-	-	-	-	-	-	-	-	-	-	-	-
79	12	Chaung	162	134	82.7	122	91.0	10	7.5	1	0.7	1	0.7	-	-	10	7.5	-	-	-	-	-	-
80	04	Hnit Char	82	64	78.0	64	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	03	Thaing Chaung Gyi	46	34	73.9	34	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82	08	Byu Chaung Gyi	141	100	70.9	85	85.0	10	10.0	-	-	5	5.0	-	-	15	15.0	-	-	-	-	-	-
83	01	Te Pin Seik	172	28	16.3	28	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84	03	Ah Shayt Mayan	101	50	49.5	50	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	04	Kwin Chaung	110	55	50.0	43	78.2	5	9.1	7	12.7	-	-	-	-	15	27.3	-	-	-	-	-	-
86	11	Kyein Chaung Gyi	75	35	46.7	35	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87	02	Ah Nauk Mayan	128	52	40.6	52	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	02	Lay Pin Chaung	119	96	80.7	96	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
89	06	Kan Nar Kwin	97	21	21.6	21	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90	04	Gyi Kone)	57	47	82.5	47	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91	08	Thar Yar Kone	24	13	54.2	13	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	101	8	7.9	8	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93	03	Taw Kyoe	120	44	36.7	44	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
94	16	Ka Nyin Kone	72	61	84.7	41	67.2	20	32.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	07	Ma Mhwe Kwin	80	40	50.0	40	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	05	Oo Pait	149	76	51.0	76	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
97	12	Tha Mein Pa Le	96	58	60.4	58	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
98	05	Gaw Du	115	3	2.6	2	66.7	1	33.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99	13	Ah Shayt Phyar	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	17	Khat Tar Kyun	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			10,470	2,912	3602.8	2,784	9280.5	97	255.4	11	21.2	20	42.9	-	0.0	82	184.1	-	0.0	-	0.0	-	0.0

Table 1.23 Number of Community Organizations

No.	Vlg Code	Village Name	Co-operative		Local association		Farmer groups		Fisherman groups		School groups		Religious groups		Others	
			No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member
Kyakankwinpauk																
1	07	Kyar Kan Su	-	-	4	57	-	-	-	-	1	12	-	-	-	-
2	07	Na Khaung Pauk	-	-	2	14	1	15	-	-	1	15	-	-	-	-
3	03	Mi Ya Htar	-	-	5	44	-	-	-	-	1	9	-	-	-	-
4	09	Kyaung Shar	-	-	1	12	-	-	-	-	-	1	9	1	10	
5	01	Tha Byu Kone	-	-	1	50	-	-	-	-	1	12	2	30	-	-
6	07	Mi Oo	-	-	-	-	-	-	-	-	1	5	1	5	-	-
7	07	Daunt Gyi Kone	-	-	1	8	1	28	1	30	1	3	-	-	-	-
8	08	Koe Bo (L)	-	-	-	-	4	41	-	-	1	4	1	5	-	-
9	12	Nyan Kwin	-	-	-	-	1	5	1	5	1	7	1	10	-	-
10	05	Myin Ka Kone	-	-	1	5	1	5	1	5	1	5	-	-	-	-
11	02	Zin Pyun Kone	-	-	4	11	-	-	-	-	1	5	-	-	-	-
12	14	Kan Thar Yar	-	-	1	3	-	-	-	-	-	-	-	-	-	-
13	12	Kanu Kamar	-	-	1	15	1	15	1	12	1	7	1	6	-	-
14	01	Sa Lu Seik	-	-	3	330	-	-	-	-	2	32	3	90	-	-
15	05	Kwin Thone Sint	-	-	-	-	-	-	-	-	1	7	1	6	-	-
16	01	Yway	-	-	1	10	-	-	-	-	1	9	1	8	-	-
17	03	Pyin Kanu Kone	-	-	1	35	-	-	-	-	1	15	1	10	-	-
18	06	Pyin Kanu Wah	-	-	1	40	-	-	-	-	1	15	1	6	-	-
Pyinalan																
19	04	Sit Kone	-	-	-	-	-	-	-	-	-	-	2	9	-	-
20	11	Kan Nyi Naung	-	-	2	26	-	-	-	-	1	7	1	15	-	-
21	12	Ye Twin Kone	-	-	2	118	-	-	-	-	-	-	1	15	-	-
22	17	Nga Dan Ta Ya	-	-	2	66	-	-	-	-	-	-	1	2	-	-
23	21	Mya Kyun Thar	-	-	1	4	-	-	-	-	-	-	-	-	-	-
24	22	Hnet Thiike	-	-	-	-	-	-	-	-	-	-	1	50	-	-
25	24	Ngat Kya	-	-	2	33	-	-	-	-	-	-	1	3	-	-
26	23	Chaung	-	-	2	20	-	-	-	-	-	-	1	5	-	-
27	25	Gaw Thu (North)	-	-	2	8	-	-	-	-	-	-	-	-	-	-
28	26	Htin Su	-	-	1	10	-	-	-	-	-	-	-	-	-	-
29	08	Pho Na Ko	-	-	4	295	-	-	-	-	1	9	2	14	-	-
30	03	Chan Thar Aye Kone	-	-	1	10	-	-	-	-	-	-	2	20	-	-
31	05	Nga Phone	-	-	1	10	-	-	-	-	1	8	-	-	-	-
32	17	Phayarlay	-	-	-	-	-	-	-	-	-	-	1	5	-	-
33	18	Sin Htwet	-	-	-	-	-	-	-	-	-	-	1	12	-	-
34	04	Ta Loke Kone	-	-	-	-	1	2	1	6	1	7	1	6	-	-
35	05	Shwe Kone	-	-	1	15	-	-	-	-	1	13	1	7	-	-
36	06	Ma Dauk Bo Kone	-	-	1	2	-	-	-	-	-	-	-	-	-	-
37	05	Lein Maw Kone	-	-	1	2	-	-	-	-	1	5	1	7	-	-
38	08	Shaw Ni	-	-	-	-	1	5	1	9	1	5	-	-	-	-
39	04	Nyaung Ta Pin	-	-	1	6	1	3	-	-	1	6	2	13	-	-
40	01	Da Ni Seik	-	-	1	5	1	6	1	19	-	-	-	-	-	-
41	07	Ywar Lay Chaung	-	-	1	30	-	-	-	-	1	5	-	-	-	-
42	03	Pain Nae Kone	-	-	1	35	-	-	-	-	1	10	4	30	-	-
43	07	Thar Yar Kone	-	-	2	20	1	10	-	-	1	10	2	80	-	-
44	13	Kine Thaug	-	-	-	-	-	-	-	-	1	7	2	20	-	-
Kadonkani																
45	07	Ka La Tan(Myit Tan)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	30	Ye Win	-	-	3	10	-	-	-	-	1	15	1	15	-	-
47	33	Ye Kyaw Kauk	-	-	-	4	-	-	-	-	1	9	1	7	-	-
48	29	Myin Ka Oak	-	-	3	10	-	-	-	-	-	1	7	1	7	
49	66	Chung	-	-	2	166	-	-	-	-	1	11	1	11	2	17
50	70	Tha Bot Sa Khan	-	-	1	6	-	-	-	-	-	-	-	-	1	5
51	72	Te)	-	-	-	-	-	-	-	-	-	-	1	6	-	-
52	20	Kyun Thar Yar	-	-	-	-	-	-	-	-	1	15	1	15	1	10
53	67	Tan	-	-	-	-	-	-	-	-	1	6	-	-	1	5
54	49	Atwin Mayan	-	-	-	-	-	-	-	-	1	5	1	4	1	10
55	71	Pauk Sein Kya	-	-	1	40	-	-	-	-	1	6	-	-	1	8
56	19	Nga Pe Chaung	-	-	2	19	-	-	1	5	-	-	-	-	1	5
57	69	Hnar Gyi	-	-	1	15	-	-	-	-	1	7	1	5	-	-
58	01	Kadon Kani	-	-	3	204	-	-	-	-	5	74	4	60	2	160
59	03	Ywar Ka Lay*	-	-	-	-	-	-	-	-	-	-	1	6	1	18
60	68	Kyain Chaung Phyar	-	-	-	-	-	-	-	-	1	9	-	-	1	5
61	01	Aye Yar	-	-	2	645	-	-	-	-	2	25	3	36	2	109
62	02	Tauk Tar Kone	-	-	-	-	-	-	-	-	1	6	1	6	-	-
63	04	Shwe Sar Yan	-	-	-	-	-	-	-	-	1	15	1	8	1	40
64	05	Ein Gyi Kwin	-	-	1	10	-	-	-	-	-	-	-	-	-	-
65	09	Kywe Phyu	-	-	-	-	-	-	-	-	1	6	-	-	1	4
66	73	Aing Gyi Kwin	-	-	1	5	-	-	1	1	1	4	-	-	1	10
Pyindaye																
67	30	Asi Lay	-	-	3	10	-	-	-	-	-	-	2	69	-	-
68	22	War Kwin	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69	16	Nga Pha Chaung	-	-	3	27	-	-	-	-	1	7	1	3	-	-
70	17	Kyun Thit Su	-	-	1	7	-	-	-	-	-	-	-	-	1	5
71	18	Ywar Thar Aye*	-	-	2	8	-	-	-	-	-	-	1	10	-	-
72	19	Koe La Tar	-	-	3	21	6	45	-	-	1	5	1	5	-	-
73	21	Ngote Chaung	-	-	3	13	-	-	-	-	1	30	-	-	1	3
74	32	Sar Oh Chaung	-	-	2	18	-	-	-	-	1	70	1	10	1	10
75	29	Taung Ywar Chaung	-	-	1	6	-	-	-	-	1	15	1	13	2	60
76	03	Auk seik Kwin	-	-	1	50	-	-	-	-	1	10	4	999	-	-

Table 1.23 Number of Community Organizations

No.	Vlg Code	Village Name	Co-operative		Local association		Farmer groups		Fisherman groups		School groups		Religious groups		Others	
			No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member
77	09	Wave Saing)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78	10	War Win)	-	-	-	-	-	-	-	-	-	-	1	5	-	-
79	12	Chaung	-	-	2	30	-	-	-	-	1	30	1	7	-	-
80	04	Hnit Char	-	-	-	-	-	-	-	-	-	-	1	6	2	5
81	03	Thaing Chaung Gyi	-	-	-	-	-	-	-	-	1	16	1	16	1	7
82	08	Byu Chaung Gyi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	-	-	3	60	-	-	-	-	1	9	2	45	1	12
84	03	Ah Shayt Mayan	-	-	1	15	-	-	-	-	1	9	1	10	1	2
85	04	Kwin Chaung	-	-	4	41	-	-	-	-	1	40	1	8	-	-
86	11	Kyein Chaung Gyi	-	-	-	-	-	-	-	-	1	30	2	26	2	22
87	02	Ah Nauk Mayan	-	-	2	3	-	-	-	-	-	-	-	-	1	2
88	02	Lay Pin Chaung	-	-	1	20	-	-	-	-	1	15	1	250	1	11
89	06	Kan Nar Kwin	-	-	3	32	-	-	-	-	1	5	1	7	-	-
90	04	Gyi Kone)	-	-	3	46	-	-	-	-	1	7	2	172	1	10
91	08	Thar Yar Kone	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	-	-	4	34	-	-	-	-	1	5	2	20	1	1
93	03	Taw Kyoe	-	-	3	30	-	-	-	-	2	10	1	5	-	-
94	16	Ka Nyin Kone	-	-	2	10	-	-	-	-	1	7	2	37	-	-
95	07	Ma Mhwe Kwin	-	-	5	34	-	-	-	-	1	7	1	10	-	-
96	05	Oo Pait	-	-	4	20	-	-	-	-	1	5	2	12	1	2
97	12	Tha Mein Pa Le	-	-	3	90	-	-	-	-	1	5	1	8	-	-
98	05	Gaw Du	-	-	3	44	-	-	-	-	1	10	1	20	1	5
99	13	Ah Shayt Phyar	-	-	2	48	-	-	-	-	2	24	1	15	1	10
100	17	Khat Tar Kyun	-	-	3	37	-	-	-	-	1	5	1	15	-	-
Total			0	0	143	3237	20	180	9	92	75	843	96	2487	38	590

Table 1.24 Existence Community Activities / project

No.	Vlg Code	Village Name	CFI project		Livelihood project		Education project		Fisheries pond		Other fishery proje		Health project		WATSAN project		Others	
			No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member	No.	Member
80	04	Hnit Char	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	03	Thaing Chaung Gyi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82	08	Byu Chaung Gyi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83	01	Te Pin Seik	1	14	-	-	1	3	-	-	-	-	1	7	1	14	-	-
84	03	Ah Shayt Mayan	1	2	-	-	1	7	-	-	-	-	1	5	1	5	-	-
85	04	Kwin Chaung	1	35	-	-	-	-	-	-	-	-	-	1	15	-	-	
86	11	Kyein Chaung Gyi	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
87	02	Ah Nauk Mayan	-	-	-	-	1	7	-	-	-	-	1	2	1	5	-	-
88	02	Lay Pin Chaung	-	-	-	-	1	5	-	-	-	-	1	4	1	5	-	-
89	06	Kan Nar Kwin	-	-	-	-	1	5	-	-	-	-	1	4	-	-	-	-
90	04	Kone)	-	-	-	-	1	7	-	-	-	-	1	4	1	5	-	-
91	08	Thar Yar Kone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	02	Seik Ma (West)	-	-	-	-	1	3	-	-	-	-	1	4	1	4	-	-
93	03	Taw Kyoe	-	-	-	-	1	4	-	-	-	-	2	8	1	5	-	-
94	16	Ka Nyin Kone	1	61	-	-	1	12	-	-	-	-	-	-	1	6	-	-
95	07	Ma Mhwe Kwin	1	37	-	-	1	7	-	-	-	-	1	4	-	-	-	-
96	05	Oo Pait	-	-	-	-	1	14	-	-	-	-	1	4	1	5	-	-
97	12	Tha Mein Pa Le	-	-	-	-	-	-	-	-	-	-	1	5	1	5	-	-
98	05	Gaw Du	-	-	-	-	1	5	-	-	-	-	1	5	1	5	-	-
99	13	Ah Shayt Phyar	-	-	-	-	1	10	-	-	-	-	1	5	1	5	-	-
100	17	Khat Tar Kyun	-	-	-	-	1	23	-	-	-	-	-	-	1	6	-	-
Total			18	851	55	1267	39	285	1	5	1	6	68	332	47	324	0	0

Table 1.25 Knowledge about Government Instruction and CFI

No.	Vlg Code	Village Name	# of interviewee	Knowledge of Boundary of Reserved Forest				Knowledge of CFI			
				Yes		No		Yes		No	
				No.	%	No.	%	No.	%	No.	%
Kyakakwinpauk											
1	07	Kyar Kan Su	8			8	100.0			8	100.0
2	07	Na Khaung Pauk	6	4	66.7	2	33.3			6	100.0
3	03	Mi Ya Htar	7	3	42.9	4	57.1	3	42.9	4	57.1
4	09	Kyaung Shar	8	8	100.0			1	12.5	7	87.5
5	01	Tha Byu Kone	10	2	20.0	8	80.0			10	100.0
6	07	Mi Oo	7	1	14.3	6	85.7	1	14.3	6	85.7
7	07	Daunt Gyi Kone	6	6	100.0			1	16.7	5	83.3
8	08	Koe Bo (L)	8	1	12.5	7	87.5	1	12.5	7	87.5
9	12	Nyan Kwin	5	4	80.0	1	20.0	1	20.0	4	80.0
10	05	Myin Ka Kone	6	6	100.0					6	100.0
11	02	Zin Pyun Kone	7	5	71.4	2	28.6			7	100.0
12	14	Kan Thar Yar	5	4	80.0	1	20.0			5	100.0
13	12	Kanu Kamar	6	6	100.0			1	16.7	5	83.3
14	01	Sa Lu Seik	7	7	100.0					7	100.0
15	05	Kwin Thone Sint	7	1	14.3	6	85.7			7	100.0
16	01	Yway	6	3	50.0	3	50.0			6	100.0
17	03	Pyin Kanu Kone	8	6	75.0	2	25.0	3	37.5	5	62.5
18	06	Pyin Kanu Wah	8	6	75.0	2	25.0	1	12.5	7	87.5
Pyinalan											
19	04	Sit Kone	7	1	14.3	6	85.7			7	100.0
20	11	Kan Nyi Naung	8	3	37.5	5	62.5	4	50.0	4	50.0
21	12	Ye Twin Kone	7	4	57.1	3	42.9	1	14.3	6	85.7
22	17	Nga Dan Ta Ya	8	1	12.5	7	87.5			8	100.0
23	21	Mya Kyun Thar	7	2	28.6	5	71.4	1	14.3	6	85.7
24	22	Hnget Thike	6	3	50.0	3	50.0			6	100.0
25	24	Ngat Kya	7	5	71.4	2	28.6			7	100.0
26	23	Gaw Thu We Chaung	7	4	57.1	3	42.9	2	28.6	5	71.4
27	25	Gaw Thu (North)	5			5	100.0			5	100.0
28	26	Htin Su	6	3	50.0	3	50.0	1	16.7	5	83.3
29	08	Pho Na Ko	8	3	37.5	5	62.5			8	100.0
30	03	Chan Thar Aye Kone	6	6	100.0			1	16.7	5	83.3
31	05	Nga Phone	5	4	80.0	1	20.0	1	20.0	4	80.0
32	17	Phayarlay	5	4	80.0	1	20.0	1	20.0	4	80.0
33	18	Sin Htwet	6	1	16.7	5	83.3			6	100.0
34	04	Ta Loke Kone	5	1	20.0	4	80.0			5	100.0
35	05	Shwe Kone	6	1	16.7	5	83.3			6	100.0
36	06	Ma Dauk Bo Kone	7	2	28.6	5	71.4			7	100.0
37	05	Lein Maw Kone	5	2	40.0	3	60.0			5	100.0
38	08	Shaw Ni	6	3	50.0	3	50.0			6	100.0
39	04	Nyaung Ta Pin	6	6	100.0			1	16.7	5	83.3
40	01	Da Ni Seik	7	5	71.4	2	28.6			7	100.0
41	07	Ywar Lay Chaung	9	8	88.9	1	11.1			9	100.0
42	03	Pain Nae Kone	8	7	87.5	1	12.5	1	12.5	7	87.5
43	07	Thar Yar Kone	7	6	85.7	1	14.3	6	85.7	1	14.3
44	13	Kine Thaug	7	4	57.1	3	42.9			7	100.0
Kadonkani											
45	07	Ka La Tan(Myit Tan)	9	5	55.6	4	44.4			9	100.0
46	30	Ye Win	6			6	100.0			6	100.0
47	33	Ye Kyaw Kauk	8			8	100.0			8	100.0
48	29	Myin Ka Oak	6			6	100.0			6	100.0
49	66	La Waing Kyun (Gar Chung)	8	8	100.0					8	100.0
50	70	Tha Bot Sa Khan	8	7	87.5	1	12.5			8	100.0
51	72	Aung Hlaing (Kywe Te)	8	4	50.0	4	50.0	1	12.5	7	87.5
52	20	Kyun Thar Yar	8	1	12.5	7	87.5			8	100.0
53	67	Htaik Chaung Myit Tan	8	7	87.5	1	12.5	1	12.5	7	87.5
54	49	Atwin Mayan	9	9	100.0					9	100.0
55	71	Pauk Sein Kya	8	2	25.0	6	75.0	2	25.0	6	75.0
56	19	Nga Pe Chaung	2	1	50.0	1	50.0			2	100.0
57	69	Hnar Gyi	8			8	100.0			8	100.0
58	01	Kadon Kani	10	5	50.0	5	50.0	2	20.0	8	80.0
59	03	Ywar Ka Lay*	7	5	71.4	2	28.6	2	28.6	5	71.4
60	68	Kyain Chaung Phyar	8	4	50.0	4	50.0			8	100.0
61	01	Aye Yar	9	3	33.3	6	66.7	2	22.2	7	77.8
62	02	Tauk Tar Kone	8	5	62.5	3	37.5	2	25.0	6	75.0
63	04	Shwe Sar Yan	7	6	85.7	1	14.3	1	14.3	6	85.7
64	05	Poe Lauk Kone + Ein Gyi Kwin	7	3	42.9	4	57.1	3	42.9	4	57.1
65	09	Kywe Phyu	8	5	62.5	3	37.5			8	100.0
66	73	Aing Gyi Kwin	7	6	85.7	1	14.3			7	100.0
Pyindaye											
67	30	Asi Lay	7			7	100.0			7	100.0
68	22	War Kwin	9			9	100.0			9	100.0
69	16	Nga Pha Chaung	9	3	33.3	6	66.7	2	22.2	7	77.8
70	17	Kyun Thit Su	8			8	100.0	3	37.5	5	62.5

Table 1.25 Knowledge about Government Instruction and CFI

No.	Vlg Code	Village Name	# of interviewee	Knowledge of Boundary of Reserved Forest				Knowledge of CFI			
				Yes		No		Yes		No	
				No.	%	No.	%	No.	%	No.	%
71	18	Ywar Thar Aye*	6	1	16.7	5	83.3	1	16.7	5	83.3
72	19	Koe La Tar	10	1	10.0	9	90.0	2	20.0	8	80.0
73	21	Ngote Chaung	8			8	100.0	1	12.5	7	87.5
74	32	Sar Oh Chaung	6	1	16.7	5	83.3			6	100.0
75	29	Taung Ywar Chaung	7	1	14.3	6	85.7			7	100.0
76	03	Auk seik Kwin	7	3	42.9	4	57.1			7	100.0
77	09	Nauk Pyan Toe (Let Wave Saing)	5			5	100.0			5	100.0
78	10	Kan Ma Lar Gyi (War War Win)	8			8	100.0	1	12.5	7	87.5
79	12	Htup Koe/Kwin Chaung	10	1	10.0	9	90.0	1	10.0	9	90.0
80	04	Hnit Char	6	6	100.0			5	83.3	1	16.7
81	03	Thaing Chaung Gyi	7	2	28.6	5	71.4			7	100.0
82	08	Byu Chaung Gyi	6			6	100.0			6	100.0
83	01	Te Pin Seik	8	3	37.5	5	62.5	5	62.5	3	37.5
84	03	Ah Shayt Mayan	5	4	80.0	1	20.0			5	100.0
85	04	Kwin Chaung	6			6	100.0	2	33.3	4	66.7
86	11	Kyein Chaung Gyi	8	1	12.5	7	87.5	2	25.0	6	75.0
87	02	Ah Nauk Mayan	5	5	100.0					5	100.0
88	02	Lay Pin Chaung	8	4	50.0	4	50.0			8	100.0
89	06	Kan Nar Kwin	7	1	14.3	6	85.7			7	100.0
90	04	Ba Aye Kone(Kan Gyi Kone)	5	3	60.0	2	40.0	2	40.0	3	60.0
91	08	Thar Yar Kone	6	2	33.3	4	66.7			6	100.0
92	02	Seik Ma (West)	6	3	50.0	3	50.0			6	100.0
93	03	Taw Kyoe	7	1	14.3	6	85.7			7	100.0
94	16	Ka Nyin Kone	5	3	60.0	2	40.0	1	20.0	4	80.0
95	07	Ma Mhwe Kwin	7	3	42.9	4	57.1	6	85.7	1	14.3
96	05	Oo Pait	7	2	28.6	5	71.4			7	100.0
97	12	Tha Mein Pa Le	6			6	100.0			6	100.0
98	05	Gaw Du	6	2	33.3	4	66.7			6	100.0
99	13	Ah Shayt Phyar	7			7	100.0			7	100.0
100	17	Khat Tar Kyun	8	2	25.0	6	75.0	1	12.5	7	87.5
Total			699	306		393		84		615	

Data book 2
Rapid Rural Appraisal (RRA) of the Study Area

Rapid Rural Appraisal (RRA)

The RRA field survey was carried out from 14 September to 14 October 2002 by MSN Yangon.

Amongst 100 villages being objects of the Village Profile Site Survey, 20 villages were initially selected; however, upon negotiation and request by the JICA Study Team, a total 23 villages were finalized in this RRA. 5 villages each were surveyed in all reserved forests except in the case of Kadonkani Reserved Forest with 8 villages. A total sample distribution of household is 305 of 2,848 total households enlisted in 23 villages. In subsequent group interview and discussion sections more than 50% of villagers has participated except in the case of large villages.

Two types of interview questionnaires were prepared: one was for the household interview and the other was for the group interview in order to acquire various information on socio-economic situations such as people's perceptions and attitudes in relation to forest and natural resources. Household questionnaires were prepared in straightforward question type, which can be answered by any household member. With regard to the group questionnaire, it was prepared in a way any occupational. Additional questions and assessment tools were incorporated in the group discussions to clarify and complement the first two interviews. Special attention was given to issues and problems encountered in regard to poverty, environment and community participation.

Household listings were first prepared to select households for subsequent interviews and homogeneous occupational groupings. Different groups were separately interviewed and complemented with group discussions and application of appropriate RRA tools. Group discussions and use of RRA tools were designed to facilitate the information required in the study. Some important information that cannot be gathered from normal interview and discussion methods was tried through participant observation method.

Table 2.1 Household Distribution by Ethnicity

Reserved Forest	Total Household				CF Household				% of Total Household
	Village	Myanmar	Kayin	Others	Total	Myanmar	Kayin	Others	
Kadonkani Reserved Forest									
Htan Pin Kwin	93				93				
Thin Gan Kyun	27	1	1		29				
Chaung Bye Gyi	179				179	73			41.0%
La Waitn Kyun (East)	60				60	26			43.0%
La Mu Oak Gyi	144				144				
La Mu Oak (Ywama)	65				65				
Sa Long Kya	55				55	24			44.0%
Aung Tha Pyay	89				89				
Total	712	1	1	1	714	123	0	0	17.2%
Pyindaye Reserved Forest									
Te Pin Seik	175				175	10			6.0%
Ah Nauk Mayan	135	29		1	165				
Ah Shayt Mayan	103			1	104				
Pho Oo Zan	125	3			128	10			8.0%
Kyein Chaung Gyi	40	18			58				
Total	578	50	2	2	630	20	0	0	3.2%
Kyakankwinpauk Reserved Forest									
Gwe Chaung	56			2	58				
Mi Chaung Ai	263			2	265	12			5.0%
Pyin Kanu Kone	94	1		5	100				
Kwin Thone Sint	75	2		2	79				
Da Yel Phyu	82			2	84	5			6.0%
Total	570	3	13	13	586	17	0	0	2.9%
Pyinalan Reserved Forest									
Ayar Taw	223			2	225	15			7.0%
Nyaung Ta Pin	24	28			52				
Poe Laung	426			1	427	116		1	27.0%
Chan Thar Kone		153			153		88		58.0%
Thar Yar Kone	3	58			61		50		82.0%
Total	676	239	3	3	918	131	138	1	29.4%
Grand Total	2,536	293	19	19	2,848	291	138	1	15.1%

Table 2.2 Population Distribution by Dependent and Working Age Group

Reserved Forest	Young Dependent (0-15 yr)			Old Dependent (above 60)			EAP* (15-60 yr)			Dependency ratio
	Village	Male	Female	Total	Male	Female	Total	Male	Female	
Kadonkani Reserved Forest										
Htan Pin Kwin	16	10	26	3	1	4	9	13	22	136%
Thin Gan Kyun	4	1	5	2	1	3	5	8	13	62%
Chaung Bye Gyi	20	20	40	2	4	6	26	23	49	94%
La Waitn Kyun (East)	4	14	18	0	0	0	11	8	19	95%
La Mu Oak Gyi	19	21	40	3	3	6	20	20	40	115%
La Mu Oak (Ywama)	9	4	13	1	0	1	13	10	23	61%
Sa Long Kya	5	7	12	0	0	0	7	7	14	86%
Aung Tha Pyay	12	12	24	0	0	0	11	12	23	104%
Total	89	89	178	11	9	20	102	101	203	98%
Pyindaye Reserved Forest										
Te Pin Seik	19	15	34	0	0	0	26	33	59	58%
Ah Nauk Mayan	21	22	43	0	0	0	33	22	55	78%
Ah Shayt Mayan	15	15	30	0	1	1	19	14	33	94%
Pho Oo Zan	15	14	29	1	0	1	19	17	36	83%
Kyein Chaung Gyi	8	11	19	1	0	1	8	9	17	118%
Total	78	77	155	2	1	3	105	95	200	79%
Kyakankwinpauk Reserved Forest										
Gwe Chaung	7	7	14	3	1	4	9	11	20	90%
Mi Chaung Ai	31	23	54	1	3	4	46	46	92	63%
Pyin Kanu Kone	10	8	18	1	0	1	15	17	32	59%
Kwin Thone Sint	5	5	10	5	2	7	14	11	25	68%
Da Yel Phyu	8	6	14	1	0	1	16	17	33	45%
Total	61	49	110	11	6	17	100	102	202	63%
Pyinalan Reserved Forest										
Ayar Taw	28	19	47	1	4	5	36	47	83	63%
Nyaung Ta Pin	6	8	14	2	0	2	11	9	20	80%
Poe Laung	36	37	73	6	4	10	65	72	137	61%
Chan Thar Kone	25	21	46	2	0	2	18	26	44	109%
Thar Yar Kone	9	4	13	1	0	1	12	6	18	78%
Total	104	89	193	12	8	20	142	160	302	71%
Grand Total	332	304	636	36	24	60	449	458	907	77%

Table 2.3 Educational Status of Sampled Households by Gender Distribution

Reserve Forest	Non Literate			Literate			% Non Literate	% Literate	Well Educated		
	Male	Female	Total	Male	Female	Total			Male	Female	Total
Kadonkani Reserved Forest											
Htan Pin Kwin	4	5	9	22	21	43	17%	83%	0	0	0
Thin Gan Kyun	1	2	3	10	8	18	14%	86%			0
Chaung Bye Gyi	3	12	15	43	34	77	16%	84%	2	1	3
La Waint Kyun (East)	1	6	7	14	16	30	19%	81%			0
La Mu Oak Gyi	8	13	21	36	29	65	24%	76%			0
La Mu Oak (Ywama)	4	2	6	19	12	31	16%	84%	0	0	0
Sa Long Kya	2	2	4	11	11	22	15%	85%	0	0	0
Aung Tha Pyay	3	2	5	19	21	40	11%	89%	1	1	2
TOTAL	26	44	70	174	152	326	18%	82%	3	2	5
Pyindaye Reserved Forest											
Te Pin Seik	9	5	14	33	40	73	16%	84%	1	1	2
Ah Nauk Mayan	11	14	25	42	31	73	26%	74%	0	0	0
Ah Shayt Mayan	2	6	8	31	24	55	13%	87%	0	1	1
Pho Oo Zan	5	7	12	28	24	52	19%	81%	1	1	2
Kyein Chaung Gyi	4	5	9	14	14	28	24%	76%	0	0	0
TOTAL	31	37	68	148	133	281	19%	81%	2	3	5
Kyakankwinpauk Reserved Forest											
Gwe Chaung	1	3	4	12	11	23	15%	85%	6	6	12
Mi Chaung Ai	14	10	24	60	54	114	17%	83%	5	7	12
Pyin Kanu Kone	2	3	5	24	21	45	10%	90%	2	1	3
Kwin Thone Sint	1	2	3	22	16	38	7%	93%			0
Da Yel Phyu	3	4	7	21	19	40	15%	85%	1	0	1
TOTAL	21	22	43	139	121	260	14%	86%	14	14	28
Pyinalan Reserved Forest											
Ayar Taw	12	10	22	54	60	114	16%	84%	0	0	0
Nyaung Ta Pin	6	7	13	13	11	24	35%	65%	0	0	0
Poe Laung	13	10	23	91	97	188	11%	89%	3	4	7
Chan Thar Kone	7	8	15	35	38	73	17%	83%	3	1	4
Thar Yar Kone	3	2	5	19	8	27	16%	84%	0	0	0
TOTAL	41	37	78	212	214	426	15%	85%	6	5	11
Grand Total	119	140	259	673	620	1293	17%	83%	25	24	49

Table 2.4 Diversification of Production and Income by Occupation

Reserved Forest	Village	Land Based Occupation						Non-Land Based Occupation							
		Casual Labour	Paddy farm	Home-stead farm	Salt production	Trap&hold prawn in paddy	Trap&hold prawn in Forest	Casual labour	Capture fishery	Fishery trading	Grocery shop	Milling*	Other Services*	Snack selling	Other Trading
Kadonkani Reserved Forest															
	Aung Tha Pyay		44					2	37	1	3				
	Chaung Bye Gyi		21					33	118	1	6				
	Htan Pin Kwin		22	16				41	6		4		4		
	La Mu Oak (Ywama)		20					39	4	2					
	La Mu Oak Gyi		60					66	5	4	9				
	La Waint Kyun (East)		22					35			2	1			
	Sa Long Kya		24					26	2	2	1				
	Thin Gan Kyun	1	13					2	13						
	TOTAL	1	226	16	0	0	0	244	185	10	25	1	4	0	0
Pyindaye Reserved Forest															
	Ah Nauk Mayan	17	51					93			2				2
	Ah Shayt Mayan		21	17				60		2	1			1	1
	Kyein Chaung Gyi	1	20	1				34	1				1		
	Pho Oo Zan		19					83	10	3	11	1	1		
	Te Pin Seik	2	18	21				71	5	4	31		5	4	14
	TOTAL	20	129	39	0	0	0	341	16	9	45	1	8	7	15
Kyakankwinpauk Reserved Forest															
	Da Yel Phyu		22					39	14	3	4				
	Gwe Chaung		18		2			20	12		3		2		
	Kwin Thone Sint		5	6				52	8	1	2				
	Mi Chaung Ai				3			154	64	17	19		8		
	Pyin Kanu Kone		25		1	1		63	7	3					
	TOTAL	0	70	6	6	4	4	328	105	24	28	0	10	0	0
Pyinalan Reserved Forest															
	Ayar Taw		1				6	2	95	90	14	9	1	5	2
	Chan Thar Kone		68	14	1			56	2	3	6	1			2
	Nyaung Ta Pin		1	7			2	36	2		1			1	
	Poe Laung		28	3	1	1	2	266	73	19	21		8	3	2
	Thar Yar Kone	2	18	3				37			1				
	TOTAL	2	116	27	2	9	6	490	167	36	38	2	13	6	4
	Grand Total	23	541	88	8	13	10	1403	473	79	136	4	35	13	19

Table 2.5 (a) Farm Households Access to Production Facilities by Priority of Importance

Reserved Forest	Primary facilities			Supporting facilities			
	Village	Land	Labour	Capital	Technical	Market & Market Information	* Others
Kadonkani Reserved Forest							
Htan Pin Kwin		2		2	1	3	2
Thin Gan Kyun		1	1	2		2	2
Chaung Bye Gyi		2	1	2		2	2
La Wait Kyun (East)		2		2	1	2	2
La Mu Oak Gyi		3	3	4	3		3
La Mu Oak (Ywama)		2	1	2	2	2	2
Sa Long Kya		2	2	2	2	2	2
Aung Tha Pyay		3	3	3	3	3	3
TOTAL		17	11	19	12	16	18
% composition		36%	23%	40%	26%	35%	39%
Pyindaye Reserved Forest							
Te Pin Seik		2	2	1	2	3	3
Ah Nauk Mayan		3	1	4			1
Ah Shayt Mayan		3	1	2		3	3
Pho Oo Zan		3	1	3	1	3	2
Kyein Chaung Gyi		2	1	2	1	1	2
TOTAL		13	6	12	4	10	11
% composition		42%	19%	39%	16%	40%	44%
Kyakankwinpauk Reserved Forest							
Gwe Chaung		1		2	2	2	2
Pyin Kanu Kone		3	1	3	3	3	3
Kwin Thone Sint		2	1	1	2	2	2
Da Yel Phyu		4	1	4	2	4	4
TOTAL		10	3	10	9	11	11
% composition		43%	13%	43%	29%	35%	35%
Pyinalan Reserved Forest							
Ayar Taw		1	1	1		1	1
Nyaung Ta Pin		1	1	1	1	1	1
Poe Laung		3	1	3	1	3	3
Chan Thar Kone		7	4	7	3	7	7
Thar Yar Kone		2	2	1	1	2	2
TOTAL		14	9	13	6	14	14
% composition		39%	25%	36%	18%	41%	41%
Grand Total		54	29	54	31	51	54

Table 2.5 (b) Fishery Households Access to Production Facilities by Priority of Importance

Reserved Forest	Primary facilities			Supporting facilities			
	Village	Land	Labour*	Capital	Technical	Market & Market Information	Others**
Kadonkani Reserved Forest							
Htan Pin Kwin			1	1	1	1	1
Chaung Bye Gyi			8	10	9	10	10
La Mu Oak Gyi				1	1	1	1
La Mu Oak (Ywama)				1			
Sa Long Kya			1	1		1	1
Aung Tha Pyay		1	3	3	4	4	3
Total		1	13	17	15	17	16
% composition		3%	42%	55%	31%	35%	33%
Pyindaye Reserved Forest							
Pho Oo Zan				1			1
Total		0	0	1	0	0	1
% composition		0%	0%	100%	0%	0%	100%
Kyakankwinpauk Reserved Forest							
Gwe Chaung				1	1	1	1
Mi Chaung Ai			4	7	7	7	7
Pyin Kanu Kone				1	1	1	1
Kwin Thone Sint				1	1	1	1
Da Yel Phyu			1	2	1	2	2
Total		0	5	12	11	12	12
% composition		0%	29%	71%	31%	34%	34%
Pyinalan Reserved Forest							
Ayar Taw			8	10	9	10	10
Nyaung Ta Pin			1	1	1	1	1
Poe Laung			3	7	3	6	6
Total		0	12	18	13	17	17
% composition		0%	40%	60%	28%	36%	36%
Grand Total		1	30	48	39	46	46

* Labour in fishery means helper

** Material inputs for Agriculture and Fishery, loans and licensing

Table 2.5 (c) Casual Labour Households Access to Production Facilities by Priority of Importance

Reserved Forest	Primary facilities			Supporting facilities			
	Village	Land	Labour	Capital	Technical	Market & Market Information	* Others
Kadonkani Reserved Forest							
Htan Pin Kwin				2	2	4	2
Thin Gan Kyun							1
Chaung Bye Gyi				3	2	5	5
La Wait Kyun (East)			1	2	3	3	3
La Mu Oak Gyi	1			4	1	1	
La Mu Oak (Ywama)			1	3	1	1	1
Sa Long Kya	1	1		1	2	1	2
Aung Tha Pyay		2	1	2	1	2	2
Total		4	4	17	12	17	16
% composition		16%	16%	68%	27%	38%	36%
Pyindaye Reserved Forest							
Te Pin Seik		1	6	3	3	7	6
Ah Nauk Mayan		1	4	6	2	5	4
Ah Shayt Mayan			1			5	3
Pho Oo Zan			1	4	3	5	7
Kyein Chaung Gyi			1	1			2
Total		2	13	14	8	22	22
% composition		7%	45%	48%	15%	42%	42%
Kyakankwinpauk Reserved Forest							
Gwe Chaung			1	2	2	2	1
Mi Chaung Ai			1	8	15	15	10
Pyin Kanu Kone			2	2	4	4	3
Kwin Thone Sint			2	3	5	5	1
Da Yel Phyu		1		4	2	3	3
Total		1	6	19	28	29	18
% composition		4%	23%	73%	37%	39%	24%
Pyinalan Reserved Forest							
Ayar Taw				2	4	9	4
Nyaung Ta Pin		1		2	2	1	2
Poe Laung			4	19	9	28	26
Chan Thar Kone				2	3	4	1
Thar Yar Kone				1	1	2	2
Total		1	4	26	19	44	35
% composition		3%	13%	84%	19%	45%	36%
Grand Total		8	27	76	67	112	91

Table 2.5 (d) Other Households Access to Production Facilities by Priority of Importance

Reserved Forest	Primary facilities			Supporting facilities			
	Village	Land	Labour	Capital	Technical	Market & Market Information	* Others
Kadonkani Reserved Forest							
La Wait Kyun (East)				1	1	1	1
Total		0	0	1	1	1	1
% composition		0%	0%	100%	33%	33%	33%
Pyindaye Reserved Forest							
Te Pin Seik		4	1	1	2	8	7
Ah Shayt Mayan		1		1		2	2
Pho Oo Zan		1	1	1		1	1
Total		6	2	3	2	11	10
% composition		55%	18%	27%	9%	48%	43%
Kyakankwinpauk Reserved Forest							
Gwe Chaung		1		1	1	1	1
Mi Chaung Ai		1	1	4	9	9	7
Pyin Kanu Kone		1		2	1	2	2
Kwin Thone Sint					1	1	1
Da Yel Phyu				1	1		1
Total		3	1	8	13	13	12
% composition		25%	8%	67%	34%	34%	32%
Pyinalan Reserved Forest							
Ayar Taw			1	2	4	5	5
Nyaung Ta Pin		2		3	2	4	4
Poe Laung					1	1	1
Chan Thar Kone		2	2	5	2	3	3
Total		4	3	10	9	13	13
% composition		24%	18%	59%	26%	37%	37%
Grand Total		13	6	22	25	38	36

Table 2.6 Flow of Marketed Products

Group	Forest Reserve	Village	Farthest market (mile)	Nearest market (mile)
Casual Labour	Kadonkani	Htan Pin Kwin	2	0
	Kadonkani	Chaung Bye Gyi	40	2
	Kadonkani	La Waint Kyun (East)	15	0
	Kadonkani	Sa Long Kya	20	0
	Kadonkani	Aung Tha Pyay	20	0
	Pyindaye	Ah Shayt Mayan	1	0
	Kyakankwinpauk	Mi Chaung Ai	20	0
	Kyakankwinpauk	Pyin Kanu Kone	23	2.5
	Kyakankwinpauk	Kwin Thone Sint	20	1
	Pyinalan	Poe Laung	115	0
	Pyinalan	Chan Thar Kone	2	1
	Pyinalan	Thar Yar Kone	2	0
Farmer	Kadonkani	Htan Pin Kwin	2	0
	Kadonkani	Chaung Bye Gyi	35	5
	Kadonkani	La Waint Kyun (East)	20	0
	Kadonkani	Sa Long Kya	20	0
	Kadonkani	Aung Tha Pyay	20	0
	Kadonkani	La Mu Oak Gyi	17	0
	Pyindaye	Ah Nauk Mayan	3	0
	Kyakankwinpauk	Gwe Chaung	23	0
	Kyakankwinpauk	Pyin Kanu Kone	80	23
	Kyakankwinpauk	Kwin Thone Sint	20	2
	Kyakankwinpauk	Dayel Phyu	15	5
	Pyinalan	Chan Thar Kone	5	1
Fishery	Kadonkani	Thin Gan Kyun	7	0
	Kadonkani	Chaung Bye Gyi	12	0
	Kadonkani	Aung Tha Pyay	1.5	0
	Kadonkani	La Mu Oak Gyi	17	0
	Kyakankwinpauk	Mi Chaung Ai	20	0
	Kyakankwinpauk	Pyin Kanu Kone	155	2.5
Others	Kyakankwinpauk	Kwin Thone Sint	1	0
	Kyakankwinpauk	Mi Chaung Ai	152	20
	Kyakankwinpauk	Pyin Kanu Kone	23	2.5
	Kyakankwinpauk	Kwin Thone Sint	20	0
	Pyinalan	Poe Laung	1,050	115

Table 2.7 Comparison of Cost-return Ratios of Major Production Activities

Reserved Forest Village	Casual Labour			Farmer			Fishery			Others		
	Max	Normal	Mini	Max	Normal	Mini	Max	Normal	Mini	Max	Normal	Mini
Kadonkani Reserved Forest												
Aung Tha Pyay	2.68	2		2	1.6	0.98	8	3	2.1			
Chaung Bye Gyi	1.1	1.1	1.05	1.73	1.73	1.18	2.5	2.5	2.3			
Htan Pin Kwin	2.58	1.62	1.5	3	2	1.5						
La Mu Oak (Ywama)	1.9	1.9	1.1	1.5	1.5	1.04	2.9	2.9	1.1			
La Mu Oak Gyi	2	1.5	1	2.1	1	0.37	2.5	1.5	0.8			
La Waint Kyun (East)	2.1	2.1	1.6	1.03	1	0.79						
Sa Long Kya	2	2	1.2	1.96	1.96	1.5	2.57	2.57	1.82			
Thin Gan Kyun	*	*	*	1.5	1.5	1	2.9	2.2	1.7			
Total	14.36	12.22	7.45	14.82	12.29	8.36	21.37	14.67	9.82	0	0	0
% composition	42%	36%	22%	42%	35%	24%	47%	32%	21%			
Pyindaye Reserved Forest												
Ah Nauk Mayan	1.5	1.5	1	1.9	1	0.8						
Ah Shayt Mayan	5	2.5	1	1.2	1	0.5						
Kyein Chaung Gyi	3	2	1	6	3.2	1.1						
Pho Oo Zan	2.5	1.5	1	2	1	0	8	4.5	2			
Te Pin Seik	2.5	1	0.5	1.8	1.2	0.7						
Total	14.5	8.5	4.5	12.9	7.4	3.1	8	4.5	2	0	0	0
% composition	53%	31%	16%	55%	32%	13%	55%	31%	14%			
Kyakankwinpauk Reserved Forest												
Dayel Phyu	2.8	2	1.3	1.5	1	1	5	3	1.5			
Gwe Chaung	3	2	1	1.8	1.5	1.2	7	6				
Kwin Thone Sint	2	1.5	1.5	3	2	1.5	10	7	7	10	8	5
Mi Chaung Ai	2.4	1.8	1.4				2.5	2	2	2	1.5	
Pyin Kanu Kone	8	3		2	1.95	1.5	10	9	6	1.5	1.3	
Total	18.2	10.3	5.2	8.3	6.45	5.2	34.5	27	16.5	13.5	10.8	5
% composition	54%	31%	15%	42%	32%	26%	44%	35%	21%	46%	37%	17%
Pyinalan Reserved Forest												
Ayar Taw	5	2	1.4	3	2.5	2	15	10	5	2	1.15	1
Chan Thar Kone	7	3.5	1.2	5	4	1.2						
Nyaung Ta Pin	7	4.5	2.5	2.5	2	1	2.4	1.6	1.4	1.6		
Poe Laung	6	4.5	3	2	1.6	1	5	3	2	3.6	2	1.5
Thar Yar Kone	2.5	2	1.2	1.75	1.4	1.16						
Total	27.5	16.5	9.3	14.25	11.5	6.36	22.4	14.6	8.4	7.2	3.15	2.5
% composition	52%	31%	17%	44%	36%	20%	49%	32%	19%	56%	25%	19%
Grand Total	74.56	47.52	26.45	50.27	37.64	23.02	86.27	60.77	36.72	20.7	13.95	7.5

Table 2.8 Factors Affecting Production Activities

Reserved Forest	Lack of Inputs	Lack of skill/ knowledge	Lack of market information	Labour shortage	Low yield	High input prices	Low market prices
Village							
Kadonkani Reserved Forest							
Aung Tha Pyay	2	1			2		2
Chaung Bye Gyi	2		1		2	1	
Htan Pin Kwin	2	1			1		1
La Mu Oak (Ywama)	3		2		2	2	2
La Mu Oak Gyi	2		1		2	3	2
La Waint Kyun (East)	1			1			
Sa Long Kya	2		1			1	
Thin Gan Kyun	3		1	2	4	2	
Total	17	2	6	3	13	9	7
Pyindaye Reserved Forest							
Ah Nauk Mayan	1				3		
Ah Shayt Mayan	3				3	1	
Kyein Chaung Gyi	1		1		4		
Pho Oo Zan	1				3	5	
Te Pin Seik	2				1	1	1
Total	8	0	1	0	14	7	1
Kyakankwinpauk Reserved Forest							
Dayel Phyu	5	2	2	1	3	4	
Gwe Chaung	3			1	1	2	1
Kwin Thone Sint	3	1	1		3	2	2
Mi Chaung Ai	3	2	2	2	3	3	3
Pyin Kanu Kone	4	1	3	2	2	3	4
Total	18	6	8	6	12	14	10
Pyinalan Reserved Forest							
Ayar Taw			1		3	1	
Chan Thar Kone	1	2	1		2	1	
Nyaung Ta Pin					1		
Poe Laung	1		1		1	1	
Thar Yar Kone	1	1	1	1	2	1	
Total	3	3	4	1	9	4	0
Grand Total	46	11	19	10	48	34	18

Table 2.9 Participation of Sampled Households in Social Activities

Reserved Forest	Participation in social activities (households)	
	Active	Passive
Village		
Kadonkani Reserved Forest		
Htan Pin Kwin	2	8
Thin Gan Kyun	1	2
Chaung Bye Gyi	2	16
La Waint Kyun (East)	2	4
La Mu Oak Gyi	2	12
La Mu Oak (Ywama)	3	4
Sa Long Kya	2	4
Aung Tha Pyay	4	5
Total	18	55
Pyindaye Reserved Forest		
Te Pin Seik	2	16
Ah Nauk Mayan	0	16
Ah Shayt Mayan	2	8
Pho Oo Zan	4	9
Kyein Chaung Gyi	0	6
Total	8	55
Kyakankwinpauk Reserved Forest		
Gwe Chaung	2	4
Mi Chaung Ai	4	27
Pyin Kanu Kone	2	10
Kwin Thone Sint	2	8
Da Yel Phyu	3	8
Total	13	57
Pyinalan Reserved Forest		
Ayar Taw	4	22
Nyaung Ta Pin	1	7
Poe Laung	6	37
Chan Thar Kone	6	10
Thar Yar Kone	1	5
Total	18	81
Grand Total	57	248

Note: It defines as **active** if the respondent or interviewee
It defines as **passive** if he or she takes part in the follower's role.

Table 2.10 Availability and Status of Mangrove Resources by Type of Use

Reserved Forest	Status of Fuelwood			Status of Housing materials			Status of Medicinal plants			Status of Production Equipment			Status of other resources			
	Village	Less	More	Same	Less	More	Same	Less	More	Same	Less	More	Same	Less	More	Same
Kadonkani Reserved Forest																
Htan Pin Kwin	8			8							5			7		
Thin Gan Kyun	3			3							3			3		
Chaung Bye Gyi	17		1	17		1					12		1	15		
La Wait Kyun (East)	6			6							6			5		
La Mu Oak Gyi	12		2	12		2					7		1	8		2
La Mu Oak (Ywama)	7			7			1				4			3		
Sa Long Kya	6			6							6			5		
Aung Tha Pyay	9			9							9			7		
Total	68	0	3	68	0	3	1	0	0	52	0	2	53	0	2	
Pyindaye Reserved Forest																
Te Pin Seik	18			18			3							16		
Ah Nauk Mayan	16			16							1			11		
Ah Shayt Mayan	10			10							2			6		
Pho Oo Zan	13			13							3			7		
Kyein Chaung Gyi	6			6										6		
Total	63	0	0	63	0	0	3	0	0	6	0	0	46	0	0	
Kyakankwinpauk Reserved Forest																
Gwe Chaung	6			6			5				6			6		
Mi Chaung Ai	29		2	29		2	24		2	29		2	29		2	
Pyin Kanu Kone	12			12			8			12			12			
Kwin Thone Sint	10			10			8			10			10			
Da Yel Phyu	11			11			8			11			11			
Total	68	0	2	68	0	2	53	0	2	68	0	2	68	0	2	
Pyinalan Reserved Forest																
Ayar Taw	23		1	23		1	15			23		1	23		1	
Nyaung Ta Pin	5		3	5		3	3		3	5		3	5		3	
Poe Laung	40		1	40		1	34			21			36		1	
Chan Thar Kone	10	1	5	10	1	5	10	1	4	10	1	5	10	1	5	
Thar Yar Kone	5		1	5		1	3		1	5		1	5		1	
Total	83	1	11	83	1	11	65	1	8	64	1	10	79	1	11	
Grand Total	282	1	16	282	1	16	122	1	10	190	1	14	246	1	15	

Table 2.11 Identified Reasons for Mangrove Degradation

Reserved Forest	Identified reasons		
	Village	Extracti on	Encroa chment
Kadonkani Reserved Forest			
Aung Tha Pyay	1	3	1
Chaung Bye Gyi	3	2	2
Htan Pin Kwin	2	2	1
La Mu Oak (Ywama)	3	3	3
La Mu Oak Gyi	3	3	3
La Wait Kyun (East)	2	1	2
Sa Long Kya	3	3	3
Thin Gan Kyun	4	4	4
Total	21	21	19
Pyindaye Reserved Forest			
Ah Shayt Mayan	4	3	2
Kyain Chaung Phyar	4	2	2
Pho Oo Zan	6	6	3
Te Pin Seik	2	3	1
Total	16	14	8
Kyakankwinpauk Reserved Forest			
Dayel Phyu	5	5	5
Gwe Chaung	4	4	3
Kwin Thone Sint	4	4	4
Mi Chaung Ai	3	3	3
Pyin Kanu Kone	4	4	4
Total	20	20	19
Pyinalan Reserved Forest			
Ayar Taw	3	4	4
Chan Thar Kone	2	3	3
Nyaung Ta Pin	5	4	4
Poe Laung	4	4	4
Thar Yar Kone	3	3	4
Total	17	18	19
Grand Total	74	73	65

Table 2.12 Crop Calendar of 8 Villages in Kadonkani Reserved Forest

Sr	Subject	Cultivated Area	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Remarks
1	Monsoon Paddy	2224 Acs													Actual paddy area could be
2	Betel leaf	NS													Homestead only
3	<i>Hygrophila obovata</i>	30 Acs													Actual area inside RF
4	Okra (<i>Hibiscus esculentus</i>)	NS													Homestead only
5	Water Convolvulus (<i>Ipomoea aquatica</i>)	NS													Homestead only
6	Cucumber (<i>Cucumis sativus</i>)	NS													Homestead only
7	Bitter gourd (<i>Momordica charantia</i>)	NS													Homestead only
8	Ridge gourd	NS													Homestead only
9	Wax gourd	NS													Homestead only
10	Brinjal	NS													Homestead only
11	Chilli	NS													Homestead only
12	Sweet potato	NS													Homestead only
13	Taro	NS													Homestead only
14	Roselle	NS													Homestead only
15	Mustard	NS													Homestead only
16	Winged Bean (<i>Lonchocarpus tetragynolobus</i>)	NS													Homestead only
17	Long Bean	NS													Homestead only
18	Coriander	NS													Homestead only
19	Coconut	250 Acs													10% of total cultivated area
20	Mango	NS													Homestead only
21	Lime/ Guava	NS													Homestead only
22	Banana	NS													Homestead only
23	Areca Nut	20 Acs													1% of total cultivated area
24	Drum Stick	NS													Homestead only
25	Papaya	NS													Homestead only

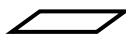

 Busy period
 Regular work period
 NS - Not Significant

Table 2.13 Crop Calendar of 5 Villages in Pyindaye Reserved Forest

Sr	Subject	Cultivated Area	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Remarks
1	Monsoon Paddy	1257 Acs													75% of total cultivated area
2	Betel leaves	NS													Homestead only
3	<i>Hygrophila obovata</i>	20 Acs													Actual acres Homestead only
4	Okra (<i>Hibiscus esculentus</i>)	NS													Homestead only
5	Water Convolvulus (<i>Ipomoea aquatica</i>)	NS													Homestead only
6	Cucumber (<i>Cucumis sativus</i>)	NS													Homestead only
7	Bitter gourd (<i>Momordica charantia</i>)	NS													Homestead only
8	Wax gourd	NS													Homestead only
9	Brinjal	NS													Homestead only
10	Chilli	NS													Homestead only
11	Sweet Potato	NS													Homestead only
12	Taro	NS													Homestead only
13	Roselle	NS													Homestead only
14	Coconut	400 Acs													24% of total cultivated area
15	Mango	NS													Homestead only
16	Lime/ Guava	NS													Homestead only
17	Banana	NS													Homestead only
18	Areca Nut	30 Acs													1% on total cultivated area
19	Drum Stick	NS													Homestead only
20	Papaya	NS													Homestead only

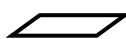

 Busy period
 Regular work period
 NS Not Significant

Table 2.14 Crop Calendar of 5 Villages in Kyarkankwinpauk Reserved Forest

Sr	Subject	Cultivated Area	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Remarks
1	Monsoon Paddy	1442 Acs													90% of total cultivated area
2	Cowpea	15 Acs													1% of total cultivated area
3	Groundnut	10 Acs													1% of total cultivated area
4	Okra (<i>Hibiscus esculentus</i>)	NS													Homestead□only
5	Water Convolvulus (<i>Ipomaea aquatica</i>)	NS													Homestead□only
6	Cucumber(<i>Cucumis sativus</i>)	NS													Homestead□only
7	Bitter gourd (<i>Momordica charantia</i>)	NS													Homestead□only
8	Wax gourd	NS													Homestead□only
9	Brinjal	NS													Homestead□only
10	Radish (root)	NS													Homestead□only
11	Radish (leaf)	NS													Homestead□only
12	Water Melon	NS													Homestead□only
13	Roselle	NS													Homestead□only
14	Long Bean	NS													Homestead□only
15	Coconut	125 Acs													8% of total cultivated area
16	Mango	NS													Homestead□only
17	Lime/ Guava	NS													Homestead□only
18	Banana	NS													Homestead□only
19	Areca Nut	NS													Homestead□only
20	Drum Stick	NS													Homestead□only
21	Papaya	NS													Homestead□only

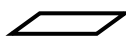

 Busy period
 Regular work period
 NS - Not significant

Table 2.15 Crop Calendar of 5 Villages in Pyinalan Reserved Forest

Sr	Subject	Cultivated Area	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Remarks
1	Paddy	693 Acs													76 % of total cultivated area
2	Cowpea	NS													Homestead□only
3	Ground Nut	NS													Homestead□only
4	Okra (<i>Hibiscus esculentus</i>)	NS													Homestead□only
5	Cucumber(<i>Cucumis sativus</i>)	NS													Homestead□only
6	Bitter gourd (<i>Momordica charantia</i>)	NS													Homestead□only
7	Sweet Potato	NS													Homestead□only
8	Roselle	NS													Homestead□only
9	Coconut	200 Acs													22 % of total cultivated area
10	Mango	NS													Homestead□only
11	Lime/ Guava	NS													Homestead□only
12	Banana	NS													Homestead□only
13	Arecanut	18 Acs													2% of total cultivated area
14	Drum Stick	NS													Homestead□only
15	Papaya	NS													Homestead□only

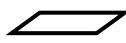

 Busy period
 Regular work period
 NS - Not significant

Table 2.16 Type of Fishing Gear Used and Fish Species Caught

Reserved Forest	Type of fishing gear and fishing season	Fish species caught	Prventing market prices (Kyats per viss)
Kadonkani	Stow net (May-Nov) (Jan- May)	<i>Penacus monodon</i>	1000-8000
		<i>Penacus penicillatis</i>	3000
		<i>Lates calcarifer</i>	300-500
	Fence net (May-Oct)	<i>Lates calcarifer</i>	300-500
		<i>Penoeous monodon</i>	800
		<i>Plotosus canlus</i>	300-800
	Cast net (Sept-Jan)	<i>Penacus monodon</i>	1000-8000
	Crab trap (yaer round)	<i>Scylla serraka</i>	800
Trammel net (Oct - Mar)	<i>Hilsa ilisha</i>	3000 - 4000	
Pyindaye	Fence net (May-Oct)	<i>Lates calcarifer</i>	3500
		<i>Penacus monodon</i>	4000-6000
		<i>Penacus penicillatis</i>	4000
	Stow net (May-Nov) (Jan- May)	<i>Penacus monodon</i>	3000-8000
		<i>Lates calcarifer</i>	500-3000
		<i>Penacus penicillatis</i>	3500
	Cast net (Sept-Jan)	<i>Penacus monodon</i>	3000-8000
	Crab trap (yaer round)	<i>Scylla serraka</i>	800
Kyakankwinpauk	Stow net (May-Nov) (Jan- May)	<i>Penacus monodon</i>	4000-6000
		<i>Penacus penicillatis</i>	4000
		<i>Lates calcarifer</i>	3500
	Cast net (Sept-Jan)	<i>Penacus monodon</i>	4000-6000
		<i>Penacus monodon</i>	4000-6000
	Crab trap (yaer round)	<i>Scylla serraka</i>	800
Trammel net (Oct - Mar)	<i>Hilsa ilisha</i>	3000 - 4000	
Pyinalan	Stow net (May-Nov) (Jan- May)	<i>Penacus monodon</i>	3000-8000
		<i>Penacus penicillatis</i>	3500
		<i>Peleman minabilis</i>	800
		<i>Lates calcarifer</i>	800-5000
	Fence net (May-Oct)	<i>Lates calcarifer</i>	800-3000
		<i>Mystus blythii</i>	3000-8000
		<i>Plotosus canlus</i>	300-800
		<i>Polynemus tetradactylus</i>	800
	England Stow net	<i>Post larva of Penacus species</i>	150-200
	Crab trap (yaer round)	<i>Scylla serraka</i>	800
Trammel net (Oct - Mar)	<i>Hilsa ilisha</i>	3000 - 4000	

Data book 3
Mangrove Forest Transect Survey

3. Mangrove Forest Transect Survey

3.1 Introduction

During the second work in Myanmar, the JICA study team has conducted a vegetation transect survey to collect data for estimation of species composition and stock volume of mangrove forests in the study area. The vegetation survey was conducted by setting transect lines in various locations of remaining mangrove forests, forest plantations, and barren lands within the Kadonkani Reserved Forest, the Meinmahla Reserved Forest, the Pyinalan Reserved Forest and the Kyakankwinpauk Reserved Forest. Within each transect, plots (plot sizes of 20m x 20m, 10 m x 10m or 5m x 10m, based on the site conditions and homogeneity of the plot) were established according to the length of transect and species composition, tree height, and diameter at breast height (DBH) or diameter above buttress (DAB) were measured in each plot. In Laputta, 17 transect lines with a total of 126 plots and 12 plantation plots, and in Bogalay 27 transect lines with a total of 68 plots and 20 plantation plots were established. Based on the results of the survey, the following items are analyzed; 1) species composition, dominance, and density, 2) growth structure, 3) stand stock, 4) land gradient and species distribution. The summary of the vegetation transect survey is discussed below.

3.2 Species Composition and Distribution

There were at least 48 species of mangrove trees, creepers, shrubs and vines recorded during the vegetation transect survey of Bogalay and Laputta mangrove forests. The species recorded are listed at Table 3.1.

In Bogalay, particularly in Kadonkani Reserve Forest, the overall top six (6) mangrove species in terms of Importance Value (IV), Index of Dominance (C^0) and Diversity Index (\bar{H}) are *Heritiera fomes* (Hf), *Brownlania tersa* (Bt), *Sonneratia caseolaris* (Sc), *Avicennia officinalis* (Ao), *Rhizophora apiculata* (Ra), and *Phoenix paludosa* (Pp), (Table 3.2).

In Laputta, the top six dominant species include: *Ceriops decandra* (Cd), *Rhizophora apiculata* (Ra), *Heritiera fomes* (Hf), *Bruguiera gymnorrhiza* (Bg), *Phoenix paludosa* (Pp) and *Avicennia officinalis* (Ao) (Table 3.3). In terms of ground level, dominant species in the low-ground are *Ceriops decandra* (Cd), *Rhizophora apiculata* (Ra), *Avicennia officinalis* (Ao) and *Brownlania tersa* (Bt). In the middle ground level, *Heritiera fomes* (Hf), *Excoecaria agallocha* (Ea), *Aegilitis rotundifolia* (Ar), *Xylocarpus granatum* (Xg) and *Amoora cucullata* (Amcu) are the top most dominant mangrove species while *Phoenix paludosa* (Pp), *Hibiscus tiliaceus* (Ht), *Clerodendrum inerme*

(Clin), *Diospyros embryopteres* (De) dominated the high ground level. The true mangrove species, which are mostly tree size, dominated the mangrove forests, both in Kyakankwinpauk and Pyinalan Reserved Forest.

These species largely influence the vegetation structure of mangroves in different ground levels or gradients. It is observed and recorded that mangrove species are distributed in distinct trends and patterns along the different ground gradients, *Brownlania tersa*, *Sonneratia caseolaris*, *Avicennia officinalis* and *Rhizophora apiculata* largely dominated the low ground area while *Heritiera fomes* and *Phoenix paludosa* are distinctly the most important mangrove species in middle and high ground gradients, respectively. The Importance value of mangrove species is noticeably decreasing towards the higher ground level because fewer tree species and decreasing basal areas are recorded. Mangrove tree species with large trunk dimensions are mostly observed in low ground areas and become scarce and are of smaller size towards the extremely high ground areas. Large size mangrove tree species are fewer in high ground areas than in the middle ground areas because the high ground areas are seldom reached by brackish water. Most of the true mangrove tree species are located in the low-ground areas and the creepers, grasses and vines covered most of the area in the high ground levels. One limiting factor for growth, maintenance and stability of true mangrove tree species is the frequency of tidal inundation (Kogo, 1991). Thus only a few true mangrove tree species are growing in high to extremely high ground gradients and if there are mangrove tree species thriving in this extreme environment, they are growing far below the optimum growth level. *Phoenix paludosa* is the most dominant and most important species in the high ground gradient, which largely controls and strongly affects the survival, growth and sustenance of any other mangrove species such as *Ceriops decandra* (Cd), *Cynometra ramiflora* (Cr), *Amoora cucullata* (Amcu), *Excoecaria agallocha* (Ea) and *Heritiera fomes*. Although *Ceriops spp*, *Amoora cucullata*, *Excoecaria agallocha* and *Heritiera fomes* preferably grow in the middle ground level particularly towards the high ground, they are also frequently recorded in the high ground level mixed with the *Phoenix paludosa* stand. Thus removal of *Phoenix paludosa* would result in changes of vegetation structure in the high ground level hence vines, creepers, shrubs and grasses, which are classified as dryland or grassland species such as *Caesalpinia cristae* (Ccr), *Dalbergia spinosa* (Dsp), *Pluchea indica* (Pi), *Clerodendrum inerme* (Clin), *Merope angulata* (Man), *Finlaysonia maritima* (Finma), *Flagellaria indica* (Flin), Myet Ngah (grass), *Acarthus ilicifolius* (Ai) and *Acrostichum aureum* (Aau), etc. are frequently recorded in the logged-over and open areas, which were previously vegetated by *Phoenix paludosa*.

3.3 Species Dominance and Diversity

In Bogalay, of the total number of species (35 spp) included in Table 3.2, a relatively small percent of the total species composition (6 spp/35 spp = 17%) dominated the mangrove forest in terms of dominance (RDom), importance (IV and C^0) and abundance. Six species out of 35 species cumulatively accounted for 59% (179/300) of the total IV, 80% (79.51/100) of the RDom, and 89% of the C^0 . Diversity increases with a decrease in the importance value. However, based on the overall mangrove forest structure, *Heritiera fomes* (Hf) consistently has the highest value of RD, RDom, IV and C^0 and is ranked first in the \bar{H} as the lowest value; hence Hf is the physiognomically dominant mangrove species of Kadonkani Reserved Forest. The higher diversity increases stability and diversity tends to be higher in undistributed and old growth natural forest than in the reproduction, newly recovered and disturbed stand.

Also in Laputta, of the total number of species (38 spp) included in Table 3.3, a relatively small percent of the total species composition (6 spp/38 spp = 16%) dominated the mangrove forest in terms of dominance (RDom), importance (IV and C^0) and abundance. Six (6) spp out of 38 spp cumulatively accounted for 69% (206/300) of the total IV, 73% (72.51/100) of the RDom, and 92 % of the C^0 . *Ceriops decandra* (Cd) had the highest IV (66.45), C^0 (0.49) and lowest values of \bar{H} (0.655). It also has the highest value of Relative Frequency (RF) at 15.19 and a Relative Density of 35.01, which contributed to the lowest value of Diversity Index. Cd, which frequently occurred in the low-middle ground level topping the overall ranking of all mangrove species in different ground levels. In terms of C^0 and \bar{H} Cd it is the ecologically important and dominant species, especially in the mid ground level. *Rhizophora apiculata*, which frequently occurred in the low ground level, follows Cd in terms of ecologically important and dominant species.

3.4 The Growth Structure

The mangrove forests in the study area can be generally classified as secondary growth in the reproduction or regeneration stage which is mostly composed of pole size trees of dominant mangrove tree species preferably growing in low to middle ground level. The stand volume (SV: m³/ha.), stand stock per ha (N: #/ha), diameter of the mean basal area of the tree (Dg: cm), stand mean height (H: m), diameter of dominant height (Dho: cm), stand dominant height (Ho: m) and stand basal area (G: m²/ha) indicate the vertical structure of mangrove forests which are relevant indicators to chose rehabilitation schemes, silvicultural treatment, cutting cycles, harvesting and management techniques appropriate to the mangrove forest conditions.

The growth structure of the surveyed plots is summarized in the following table.

Growth Structure of Surveyed Plots

Survey Item	Laputta (n = 131 plots)	Bogalay (n = 68 plots)
Average Stand Volume (m ³ /ha)	49.676	30.447
Average Stocking (trees/ha)	5,616	2,783
Stand wood volume (# of plots)		
1. <25 m ³ /ha	87 (69.0 %)	36 (52.9%)
2. 25-75 m ³ /ha	33 (26.2%)	26 (38.2%)
3. 75-150 m ³ /ha	5 (4.0%)	6 (8.9%)
4. >150 m ³ /ha	1 (0.8%)	0
Stocking (# of plots)		
1. adequate stock (>1,600 trees/ha)	110 (87.3%)	58 (85.3%)
2. inadequate stock (1,000-1600 trees/ha)	10 (7.9%)	5 (7.4%)
3. degraded area (400-1,000 trees/ha)	3 (2.4%)	3 (4.4%)
4. opened/denuded area (<400 trees/ha)	3 (2.4%)	2 (2.9%)

Source: Japan International Cooperation Agency (JICA) Study Team (2002)

In Bogalay, the average stand volume (SV) of the total sampled area of 2.72 ha in Kadonkani Reserved Forest is 30.447 m³/ha with an average stocking (N) of 2,783 trees/ha (Table 3.4). Thus, Kadonkani Reserved Forest contains low wood volume with highly dense reproduction-pole size stands. The growth structure of the mangrove tree species is comprised of Dg of 6.33 cm and H of 4.36 m. The dominant timber size stand has Dho of 16.52 cm and Ho of 10.53 m. Out of 68 sampling plots measured, 36 (52.9%), 26 (38.2%), and 6 (8.0%) plots were classified to contain stand wood volumes of <25 m³/ha, >25-75 m³/ha, and >75-150 m³/ha, respectively. In terms of stocking, 58 (85.3%), 5 (7.4%), 3 (4.4%), and 2 (2.9%) plots were classified to consist of adequate stock (>1,600 trees/ha), inadequate stock (>1,000-1600 trees/ha), degraded area (>400-1,000 trees/ha) and opened/denuded area (<400 trees/ha), respectively.

In Laputta, mangrove forests recorded SV of 49.676 m³/ha, N of 5,616 trees/ha, Dg of 4.89 cm, Ho of 3.91 m, Dho of 9.65 cm, H of 7.42 m, and G of 11.52 m²/ha (Table 3.5). Out of 131 sampling plots measured, 87(69.0 %), 33(26.2%), 5 (4.0%) and 1 (0.8%) plots were classified to contain stand wood volumes of <25 m³/ha, >25-75 m³/ha, >75-150 m³/ha, and >150 m³/ha respectively. In terms of stocking, 110 (87.3%), 10 (7.9%), 3 (2.4%), and 3 (2.4%) plots were classified to consist of adequate stock (>1,600 trees/ha), inadequate stock (>1,000-1600 trees/ha), degraded area (>400-1,000 trees/ha) and opened/denuded area (<400 trees/ha), respectively.

Based on the vegetation transect survey, both townships had similar proportions of plots in terms of stand volume and stocking class, though plots in Laputta had higher values of mean stand volume and stocking class. To estimate the stand volume of existing forests in the study area, mean stand volume and stocking were calculated according to the stocking class as show in the following table.

Mean Stand Volume and Stocking based on Stocking Class

	Stocking Class	Stand Volume (m ³ /ha)	Stocking (trees/ha)	Remarks
Laputta	Adequate Stock	26.19	9,865	Closed Forest(CM1- 3)
	Inadequate Stock	11.43	1,385	Sparse Forest (SM1-3)
	Denuded Areas	4.41	608	
	Open/Degraded Areas	1.30	369	
Bogalay	Adequate Stock	34.93	3,760	Closed Forest(CM1- 3)
	Inadequate Stock	16.48	1,399	Sparse Forest (SM1-3)
	Denuded Areas	2.37	526	
	Open/Degraded Areas	6.06	250	
Average	Adequate Stock	30.56	6,812	Closed Forest(CM1- 3)
	Inadequate Stock	13.95	1,392	Sparse Forest (SM1-3)
	Denuded Areas	3.39	567	
	Open/Degraded Areas	3.68	310	
Average stocking			2,270	

Note: Refer to Table 2.7 for the definition of CM1-3 and SM1-3.

Source: JICA Study Team (2002).

For convenience, the stocking classes of “adequate stock (>1,600 trees/ha)” and “inadequate stock (1,000-1600 trees/ha)” are considered as forest type - closed forest (codes, CM1 to CM3 in aerial photo interpretation keys), and sparse forest (codes, SM-1 to SM-3 in aerial photo interpretation keys), respectively. As indicated below, the estimated total stand volume for the forests in the study area is approximately 2.2 million m³ and weighted stand volume per hectare is 26.85 m³/ha.

Estimated Total Stand Volume and Stand Volume per Hectare for Forests in Study Area

Forest Type	Area (ha)	Unit Volume (m ³ /ha)	Total Volume (m ³)	Weighted Stand Volume (m ³ /ha)
Closed Forest (CM1-3)	55,461	30.56	1,694,888.16	26.85
Sparse Forest (SM1-3)	34,927	13.95	487,231.65	
Total	90,388		2,182,119.81	

Note: Refer to Table 2.7 for the definition of CM1-3 and SM1-3.

Source: JICA Study Team (2002)

In the study area, the National Forestry Survey and Inventory of Myanmar was conducted in the fiscal year 1983, and a special survey and inventory was conducted for the Laputta Township in the fiscal year 1991. The previous inventory revealed that an average stock volume of 32.89m³/ha (469.14 stack wood cu.ft/acre) in Laputta and Bogalay townships as of 1984, and an average stock volume of 2.62m³/ha in the Laputta Township as of 1992. Inventory criteria were different among the three inventories, so it is difficult to compare

the three stand volumes. However, it can be speculated that the current stand volume of commercial and valuable mangrove species are somewhat decreasing or at least maintaining the stand volume level of 1991, since the stand volume calculated under the study includes all of the species from the spaling stage and has higher stand volume than that of 1991.

3.5 Stand and Stock Assessment

Based on “Laputta Stand and Stock Table” (Table 3.6), the pole size trees, particularly range from 2.5 to 7.5 cm DBH comprising 98% of the total stand volume and 95% of total stand stocking. The top 10 species contributory to the stand volume of the two Reserved Forests of Laputta as follows:

Ceriops decandra (Cd)
Rhizophora apiculata (Ra)
B. gymnorrhiza (Bg)
H. fomes (Hf)
P. paludosa (Pp)
Brownlania tersa (Bt)
H. tiliaceus (Ht)
Excoecaria agallocha (Ea)
B. sexangula (Bs)
A. officinalis (Ao)

Based on “Bogalay Stand and Stock Table” (Table 3.7), 80% of the total stocking of mangrove species belongs to the diameter class of 5 cm in which the diameters range from 2.5 to 7.5 cm. This stocking contributed to 67% of the total stand volume. The 10 cm diameter class (>7.5 – 12.5 cm) ranked second, with 14% and 25% of stocking and wood volume respectively. The 15 cm diameter class ranked third, with 3.5% and 5.4% of the stand and stock assessment respectively. The remaining 2.5% and 2.35% total stocking and wood volume respectively is scattered across diameter classes from 15 cm to 75 cm. The top ten (10) species contributing to the stand volume of Kadonkani Reserved Forest, including C-2 and C-4 of Meinmahla Island are as follows:

Rhizophora apiculata (Ra)
H. fomes (Hf)
B. gymnorrhiza (Bg)
Brownlania tersa (Bt)
B. sexangula (Bs)
X. granatum (Xg)

A. officinalis (Ao)

K. candle (Kc)

S. caseolaris (Sc)

P. paludosa (Pp)

Cd has the highest stand volume per hectare followed by Ra, Bg, Hf, Pp, Bt, and Ht which share 22%, 9%, 6%, 4%, 4% and 3% of the total volume per hectare, respectively. Cd is recorded in pure stands in the middle ground area while Ra grows homogenously in the low ground level areas. Among the top seven producers of wood volume and stocking, Ra and Bt preferably grow in low ground areas; Cd, Bg and Hf are middle ground mangrove species and Pp and Ht prefer to grow vigorously in the high ground area.

In general, only very few individuals of *Avicennia* and *Sonneratia* are recorded in diameter classes above 15 cm which are classified as timber size trees. In both townships, mangrove forests are abundantly and dominantly observed with diameter ranges from 2.5 cm to 7.5 cm (diameter class of 5cm), indicating that the forests are in the recovery/regeneration stage.

Stand volume and stocking were analyzed according to diameter class and the result is summarized in the following table.

Stand Volume and Stocking by Diameter Class

Item	Laputta		Bogalay	
	Stand Volume	Stocking	Stand Volume	Stocking
Percentage by diameter class				
1. 5 cm (2.5 -7.5)	95.28%	97.54%	66.87%	80.48%
2. 10 cm (7.5-12.5)	4.20%	2.23%	25.48%	14.56%
3. 15 cm (12.5 -17.5)	0.31%	0.15%	5.65%	3.45%
4. Other classes	0.21%	0.08%	2.00%	1.51%

More than 90% of individuals, in terms of both volume and stocking, recorded in the survey had a diameter smaller than 12.5 cm, and the majority of such recorded individuals were smaller than 7.5 cm in diameter. Only very few individuals of *Avicennia* and *Sonneratia* were recorded in diameter classes above 15 cm which are classified as timber size trees. In general, mangrove forests of the study area can be characterized as in the recovery/regeneration stage, due to abundance and dominance of small diameter-class trees.

3.6 Growth Structure of Mangrove Plantations

The study team also surveyed forest plantations of species with different plantation ages and sites as indicated in Table 3.8. For all species, accumulation of volume seems to be heavily influenced by site conditions, particularly of ground level and frequency of tidal inundation compared to plantation ages. For example, the growth structure of *Avicennia officinalis* plantations, normally planted at a density of 3,000 seedling/ha (1200 seedling/acre) in the study area, is summarized in the following table. The *Avicennia* plantations accumulated wood volume differently in different sites regardless of their age: A 7-year old (1995) plantation as of 2002 in forest compartment 20 of the Kyakankwinpauk Reserved Forest had a stand volume ranging 6.13 to 8.95m³/ha, whereas a 5-year old (1997) plantation as of 2002 in forest compartment 76 of the Pyinalan Reserved Forest had a higher stand volume of 10.06m³/ha. Moreover, a 4-year old (1998) plantation as of 2002 in forest compartment 36 of the Kadonkani Reserved Forest had a stand volume of 23.60m³/ha. The 4 year old *Avicennia* plantation was established in medium ground level which is considered to be optimum ground level for *Acivennia*, whereas other *Avicennia* plantions were located on somewhat higher ground level areas. Stand stock also varied among plantation sites. This may be derived from the following factors: 1) multi-stem trees, natural regenerated seedlings and/or coppicing were also counted as individuals in the inventory, 2) patching and additional planting were conducted in some plantation sites, and 3) some plantations had higher planting density than 3,000 seedling/ha.

Stand Volume of *Avicennia officinalis* Plantations in Study Area

Established Year	Stand Volume (m ³ /ha)	Stand Stock (#/ha)	Reserved Forest	Compartment
1992	20.90	2,800	Kadonkani	48
1993	33.15	3,625	Kadonkani	47
1994	18.31	1,088	Kadonkani	47
1994	19.85	2,238	Kadonkani	47
1995	8.95	4,714	Kyakankwinpauk	20
1995	8.31	7,071	Kyakankwinpauk	20
1995	8.02	7,214	Kyakankwinpauk	20
1995	6.13	5,347	Kyakankwinpauk	20
1997	10.06	8,900	Pyinalan	76
1998	9.64	19,200	Pyinalan	71
1998	7.30	7,800	Kadonkani	36
1998	23.60	4,900	Kadonkani	36

Source: JICA Study Team

Growth Structure of Plantation Established in Bogalay and Laputta

TS	RF	FC No.	Species	Established Year	Plot	Stand Volume (SV) (m ³ /ha)	Stand Stock (N) (#/ha)	Mean Diameter (Dg) (cm)	Stand Dominant Height (Ho) (m)	Mean Dia. of Dominant Height (Dho) (cm)	Stand Mean Height (H) (m)	Stand Basal Area (G) (m ² /ha)
Bogalay	Kadonkani	47	<i>Aegiceras corniculatum</i>	1993	1	3.00	4775	3.42	3.63	5.03	2.35	4.71
	Kadonkani	36	<i>Aegiceras corniculatum</i>	1998	1	4.64	9700	3.83	2.20	5.33	1.51	11.71
	Kadonkani	48	<i>Avicennia officinalis</i>	1992	1	20.90	2800	6.16	8.50	14.03	4.37	12.20
	Kadonkani	47	<i>Avicennia officinalis</i>	1993	1	33.15	3625	6.81	11.70	18.17	5.05	17.62
	Kadonkani	48	<i>Avicennia officinalis</i>	1994	1	18.31	1088	9.68	11.00	12.77	7.67	8.96
	Kadonkani			1994	2	19.85	2238	8.61	6.87	14.10	5.29	14.17
	Kadonkani	36	<i>Avicennia officinalis</i>	1998	1	7.30	7800	4.10	4.60	6.17	2.38	11.01
	Kadonkani			1998	2	23.60	4900	6.43	6.92	8.53	5.18	17.34
	Kadonkani	48	<i>Bruquiera gymnorrhiza</i>	1992	1	165.82	6275	4.48	9.10	7.77	5.24	11.73
	Kadonkani			1992	2	11.89	300	12.26	12.00	20.00	8.79	4.34
	Kadonkani	49	<i>Ceriops decandra</i>	1992	1	11.24	5875	4.35	5.00	4.97	2.44	9.34
	Kadonkani	36	<i>Ceriops decandra</i>	1998	1	25.44	3700	3.51	3.30	3.47	1.78	3.81
	Kadonkani	49	<i>Excoecaria agallocha</i>	1992	1	6.64	1446	6.26	8.10	12.60	3.96	5.19
	Kadonkani	47	<i>Heritiera fomes</i>	1993	1	5.07	9900	2.98	4.93	3.67	2.29	8.29
	Kadonkani			1993	2	10.43	6200	4.57	5.40	6.90	3.31	11.83
	Kadonkani	36	<i>Heritiera fomes</i>	1998	1	0.11	2100	2.05	0.91	2.10	0.60	0.76
	Kadonkani	49	<i>Lumnitzera racemosa</i>	1999	1	4.43	2700	4.25	5.27	5.60	4.04	4.05
	Kadonkani	36	<i>Rhizophora apiculata</i> <i>Rhizophora mucronata</i>	1998	1	39.28	5400	3.40	4.20	4.43	3.29	5.16
	Kadonkani	49	<i>Sonneratia apetala</i>	1994	1	71.86	1825	9.72	16.33	23.33	8.03	20.95
	Kadonkani	49	<i>Sonneratia apetala</i>	1998	1	32.18	1700	10.01	10.16	10.80	8.89	13.89
TOTAL AVE.						24.00	4062	5.65	6.86	9.36	4.15	9.58
TOTAL						515.14	84346	116.87	140.12	189.77	86.43	197.06
Laputta	Kyakankwinpauk	20	<i>Sonneratia apetala</i>	1995	1	86.75	5875	8.32	13.33	13.60	6.23	41.51
	Kyakankwinpauk	20	<i>Rhizophora apiculata</i>	1995	1	62.14	13500	4.11	6.90	6.70	3.53	21.52
	Kyakankwinpauk			1995	2	106.50	14100	4.26	5.83	5.00	4.43	21.04
	Kyakankwinpauk	20	<i>Avicennia officinalis</i>	1995	1	8.02	7214	3.81	5.33	6.43	2.96	9.56
	Kyakankwinpauk			1995	2	8.95	4714	4.33	5.87	10.90	3.00	8.75
	Kyakankwinpauk			1995	3	8.31	7071	3.97	4.37	5.73	3.12	9.60
	Kyakankwinpauk			1995	4	6.13	5347	3.87	4.70	6.70	3.04	6.99
	Pyinalan	75	<i>Amoora cucullata</i>	1997	1	3.29	21300	1.93	2.77	2.57	1.83	6.79
	Pyinalan	76	<i>Avicennia officinalis</i>	1997	1	10.06	8900	3.77	5.47	7.23	3.05	11.10
	Pyinalan	71	<i>Sonneratia apetala</i>	1997	1	12.69	1900	7.35	6.47	9.20	5.39	8.81
	Pyinalan	71	<i>Avicennia officinalis</i>	1998	1	9.64	19200	2.80	4.63	5.17	2.66	13.31
	Kyakankwinpauk	20	<i>Albizia lebbek</i>	1998	1	14.12	11662	3.80	5.75	14.97	1.86	16.20
	TOTAL AVE.						28.61	11090	4.52	1.25	1.65	3.50
TOTAL						336.58	120783	52.31	71.41	94.21	41.08	175.20

Source: JICA Study Team

Accumulation of volume seems to be heavily influenced by site conditions, particularly of ground level and frequency of tidal inundation. In Bogalay, among Ao plantations, a 9-year old stand located in middle ground produced the highest stand volume surpassing the wood volume of the 10-year old stand. Also in Laputta, a 5-year old (1997) plantation has higher volume compared to the older 7-year old (1995) stand, which is attributed to its bigger diameter and taller total height. The 1997 plantation is located in middle level ground while the 1995 Ao stand is located in high level ground. The middle level ground is more frequently inundated than the high ground. Nine year old Hf plantations produced wood volume differently in different sites. An Hf plantation located towards the middle ground level grows higher (Hf 1993-P2) than the plantation located in the higher ground (Hf 1993-P1). An Hf 1993-P₂ plantation is shaded with Pp and other remnants of naturally growing large trees, which serve as shade trees favoring their growth.

The result should be validated on the ground by taking additional measurements of plantations of different species and ages in different sites in low ground, middle ground and high ground levels.

The following table shows the mean annual growth of stand volume for plantations in which the vegetation transect survey was conducted. The figures in the table were used in calculations for the socioeconomic analysis of the present study.

Mean Annual Growth of Plantation in Study Area

Township	Species	Plot	Stand Volume (m ³ /ha/yr)						
			10 yrs	9 yrs	8 yrs	7 yrs	5 yrs	4 yrs	3 yrs
			1992	1993	1994	1995	1997	1998	1999
Bogalay	<i>Aegiceras corniculatum</i>	1		0.33					1.16
Bogalay	<i>Avicennia officinalis</i>	1	2.09	3.68	2.29			1.83	
		2			2.48			5.90	
Laputta	<i>Avicennia officinalis</i>	1				1.24	2.01	2.41	
		2				1.28			
		3				1.19			
		4				0.88			
Bogalay	<i>Bruquiera gymnorrhiza</i>	1	16.58						
		2	1.19						
Bogalay	<i>Ceriops decandra</i>	1	1.12					6.36	
Bogalay	<i>Excoecaria agallocha</i>	1	0.66						
Bogalay	<i>Heritiera fomes</i>	1		0.56				0.03	
		2		1.16					
Bogalay	<i>Lumnitzera racemosa</i>	1							1.48
Bogalay	<i>Rhizophora apiculata</i>	1			4.91				
	<i>Rhizophora mucronata</i>								
Laputta	<i>Rhizophora apiculata</i>	1				8.88			
		2				15.21			
Bogalay	<i>Sonneratia apetala</i>	1			8.98			8.05	
Laputta	<i>Sonneratia apetala</i>	1				12.39	2.54		
Laputta	<i>Amoora cucullata</i>	1					0.66		
Laputta	<i>Albizia lebbek</i>	1						3.53	

Source: JICA Study Team

3.7 Land Gradient and Species Distribution

The results of the vegetation transect survey give some indications of land gradient category by using species' ecological parameters, since surveyed plots were not classified in accordance with land gradient or tidal inundation class. However, based on the vegetation transect survey, field reconnaissance, and literature review, the relationship of land gradient and species distribution in the study area can generally be described as follows.

Mangrove in Ayeyawady thrives well in an alluvial substrate where a mixture of fresh and seawater occurs and extending up to the land which is influenced by brackish water level. Thus the existence of mangrove is directly affected by the frequency of tidal inundation, salinity, soil type and land gradients. The mangrove areas in Ayeyawady are classified in terms of topography including tide level or frequency of tidal inundation such as low ground (LG), medium ground (MG) and high ground (HG). The LG is inundated by brackish water at least 20 days per month while MG is tidally inundated every spring tide at least 7 days per month. The HG is inundated during the highest tide at least one day per

month while the extremely high land areas are not tidally inundated and only flooded by rain water during the rainy season.

The ground level, tide level, frequency of tidal inundation and species pattern of distribution under natural conditions will serve as a guide in species/site matching for selection of preferred or desired mangrove species suitable to site condition for establishment of mangrove plantations and in the conduct of various natural forest operations. Based on findings and suggestions of Kogo (1993) and field observations by the JICA study team, the ground level classification in the delta can be summarized as follows.

Frequency of Tidal Inundation in Ayeyawady Delta

Mangrove land area class	Tide level (m) above sea level/ Admiralty datum	No. of days of tidal inundation per month during dry season	Tidal inundation class based on Watson Classification	Frequency of tidal inundation per month based on Watson Classification
Low Ground Level 1	0.1-1.7	all high tides (at least 20 days/month)	1	56-62
Low Ground Level 2	1.7-2.0	every medium high tide/every start of spring tides (10-19 days /month)	2	45-59
Medium Ground Level 1	2.0-2.3	every normal high tide/mid spring tides (3-9 days/month)	3	20-45
Medium Ground Level 2	2.3-2.6	every spring high tide (at least 2 days/month)	4	2-20
High Ground Level	2.6-2.7	4 times in dry season by equinoctial/ abnormal high tides	5	0-2
Extremely High Ground Level	2.7-3.3	only flooded by rain water during rainy season	6	none

Source: modified from Kogo, 1993 by JICA Study Team

The species distribution of some important mangrove species has distinct patterns or zones as influenced by land ground level which determines the frequency of tidal inundation and soil type. Initial results of the vegetation analysis of mangroves in Ayeyawady shows that the most common mangrove species form pure stands and in each ground level type. Dominant species distinctly exist. The mangrove species distribution based on ground level is summarized in the table below.

Mangrove Species Distribution by Ground Level Classification in Ayeyawady Delta

Ground Level Class	Most Common Mangrove Species	
Low Ground Level 1	<u>High saline water</u> <i>Kandelia candel</i> (Kc) <i>Avicennia alba</i> (Aa) <i>Avicennia marina</i> (Am) <i>Sonneratia apaetala</i> (Sa) <i>Aegiceras corniculatum</i> (Ac)	<u>Low saline water</u> <i>Kandelia candel</i> (Kc) <i>Nypa fruticans</i> (Nf) <i>Rhizophora apiculata</i> (Ra) <i>Sonneratia caseolaris</i> (Sc) <i>Avicennia officinalis</i> (Ao)
Low Ground Level 2	<i>Nypa fruticans</i> (Nf) <i>Rhizophora apiculata</i> (Ra) <i>Sonneratia grifithi</i> (sg) <i>S. alba</i> (Sal) <i>Ceriops decandra</i> (Cd) <i>Bruguiera gymnorhizza</i> (Bg) <i>Bruguiera sexangula</i> (Bs) <i>Avicennia officinalis</i> (Ao) <i>Aegiceras corniculatum</i> (Ac)	<i>Brownlania tersa</i> (Bt) <i>Ceriops decandra</i> (Cd) <i>Bruguiera gymnorhizza</i> (Bg) <i>Aegiceras corniculatum</i> (Ac) <i>Heritiera fomes</i> (Hf) <i>Rhizophora apiculata</i> (Ra)
Medium Ground Level 1	<i>Ceriops decandra</i> (Cd), <i>Bruguiera spp</i> (Bsp), <i>Heritiera fomes</i> (Hf) <i>Amoora cucullata</i> (Amcu), <i>Xylocarpus granatum</i> (Xg) <i>Xylocarpus mollucensis</i> (Xm), <i>Aegilitis rotundifolia</i> (Ar)	
Medium Ground Level 2	<i>Heritiera fomes</i> , <i>Xylocarpus mollucensis</i> , <i>Xylocarpus granatum</i> <i>Excoecaria agallocha</i> , <i>Amoora cucullata</i> , <i>Phoenix paludosa</i>	
High Ground Level	<i>Phoenix paludosa</i> , <i>Cynometra ramiflora</i> , <i>Hibiscus tiliaceous</i> <i>Chlelodendrum inerme</i> , <i>Myet-kha grass</i> (Mn)	

The dominant species frequently observed in low ground level 1 near the shoreline is *Avicennia alba* while *Kandelia candel* is the dominant species along the river banks of low lying areas. However, *Rhizophora apiculata* and *Nypa fruticans* are commonly observed in pure stands in the low-lying areas. *Ceriops* and *Bruguiera* spp are the dominant mangrove species in the low ground level 2 to medium ground level 1. *Heritiera fomes* is the dominant species in medium ground level 1 and 2 while *Phoenix paludosa* is frequently observed in the high ground level. *Hibiscus* spp is frequently recorded in the extreme high ground.

The topography or ground level dictates the tide level and frequency of tidal inundation. The extreme high ground level cannot be reached by tide water at any time of the year. Most of the paddy fields are located in areas with ground elevation above 2.7 m. The high ground level which has an elevation of above approximately 2.6-2.7 m is inundated by brackish water only at every equinoctial tide which occurs four times in the dry season. The medium ground with an elevation of 2.0-2.6 m can be reached by brackish water during the spring high tides and normal high tides, while the low ground level with an elevation between 1.4 to 2.0 m is inundated during any high tides even during medium high tides.

Tables

Table 3.1 Species Recorded in the Vegetation Transect Survey

Species		Species	
1	<i>Acanthus ilicifolius</i>	24	<i>Diospyros embryopteres</i>
2	<i>Acrostichum aureum</i>	25	<i>Eupatorium odonatum</i>
3	<i>Aegialitis rotundifolia</i>	26	<i>Excoecaria agallocha</i>
4	<i>Aegiceras corniculatum</i>	27	<i>Ficus spp</i>
5	<i>Amoora cucullata</i>	28	<i>Flagellaria indica</i>
6	<i>Antidesma pentandrum</i>	29	<i>Heritiera fomes</i>
7	<i>Avicennia alba</i>	30	<i>Heritiera littoralis</i>
8	<i>Avicennia marina</i>	31	<i>Hibiscus tiliaceus</i>
9	<i>Avicennia officinalis</i>	32	<i>Instia bijuga</i>
10	<i>Barringtonia acutangula</i>	33	<i>Kandelia candle</i>
11	<i>Barringtonia racemosa</i>	34	<i>Merope angulata</i>
12	<i>Brownlowia tersa</i>	35	<i>Nipa fruticans</i>
13	<i>Bruguiera gymnorrhiza</i>	36	<i>Phoenix paludosa</i>
14	<i>Bruguiera parviflora</i>	37	<i>Pongamia pinnata</i>
15	<i>Bruguiera sexangula</i>	38	<i>Pongamia pinnata</i>
16	<i>Caesalpinia cristae</i>	39	<i>Rhizophora apiculata</i>
17	<i>Cerbera manghas</i>	40	<i>Rhizophora mucronata</i>
18	<i>Cerbera odollum</i>	41	<i>Sonneratia alba</i>
19	<i>Ceriops decandra</i>	42	<i>Sonneratia apetala</i>
20	<i>Clerodendrum inerme</i>	43	<i>Sonneratia caseolaris</i>
21	<i>Cynometra ramiflora</i>	44	<i>Sonneratia griffithii</i>
22	<i>Dalbergia spinosa</i>	45	<i>Xylocarpus granatum</i>
23	<i>Derris scandens</i>	46	<i>Xylocarpus moluccensis</i>

Table 3.2 Species Composition, Distribution and Zonation of Mangrove Forest of Kadonkani RF, Bogalay 2002

Species	No. of Plots Spp. Occurred (NPS)	No. of Ind. Spp Occurred (NIS)	Frequency	Relative Frequency (RF)	Relative Density (Rden)	Relative Dominance (Rdom)	Importance Value (IV)	Index of Dominance (C) ^o	Diversity Index (H)
<i>Avicennia alba</i>	6	73	0.088	1.282	0.782	0.947	3.010	0.00010	1.99850
<i>Aegiceras corniculatum</i>	36	332	0.529	7.692	3.558	1.742	12.992	0.00188	1.36340
<i>Acanthus ilicifolius</i>	1	1	0.015	0.214	0.011	0.009	0.234		3.10860
<i>Avicennia marina</i>	6	19	0.088	1.282	0.204	0.147	1.632	0.00003	2.26450
<i>Amoora cucullata</i>	44	252	0.647	9.403	2.701	1.699	13.803	0.00212	1.33720
<i>Avicennia officinalis</i>	14	436	0.206	2.992	4.673	14.050	21.715	0.00524	1.14040
<i>Barringtonia acutangula</i>	12	417	0.177	2.565	4.469	1.962	8.996	0.00090	1.52310
<i>Bruguiera gymnorrhiza</i>	14	214	0.206	2.992	2.293	1.920	7.205	0.00058	1.61950
<i>Bruguiera parviflora</i>	3	14	0.044	0.641	0.150	0.046	0.837	0.00001	2.55470
<i>Barringtonia racemosa</i>	15	113	0.221	3.205	1.211	0.451	4.867	0.00026	1.78980
<i>Bruguiera sexangula</i>	15	87	0.221	3.205	0.932	1.202	5.340	0.00032	1.74960
<i>Brownlowia tersa</i>	32	1956	0.471	6.838	20.962	5.253	33.054	0.01214	0.95790
<i>Ceriops decandra</i>	18	209	0.265	3.846	2.240	0.697	6.783	0.00051	1.64570
<i>Cerebra manghas</i>	1	1	0.015	0.214	0.011	0.034	0.258		3.06550
<i>Cerebra odollum</i>	2	4	0.029	0.427	0.043	0.030	0.500		2.77800
<i>Cynometra ramiflora</i>	8	108	0.118	1.709	1.157	0.727	3.593	0.00014	1.92170
<i>Dalbergia spinosa</i>	2	7	0.029	0.427	0.075	0.012	0.514		2.76580
<i>Excoecaria agallocha</i>	12	95	0.177	2.565	1.018	1.005	4.587	0.00023	1.81560
<i>Ficus spp</i>	2	10	0.029	0.427	0.107	0.193	0.728	0.00001	2.61520
<i>Heritiera fomes</i>	43	2156	0.632	9.189	23.106	20.310	52.605	0.03075	0.75610
<i>Hibiscus tiliaceus</i>	8	110	0.118	1.709	1.179	0.421	3.309	0.00012	1.95750
<i>Instia bijuga</i>	5	14	0.074	1.068	0.150	0.207	1.425	0.00002	2.32320
<i>Kandelia candle</i>	25	657	0.368	5.341	7.041	4.560	16.942	0.00319	1.24810
<i>Merope angulata</i>	5	53	0.074	1.068	0.568	0.119	1.755	0.00003	2.23290
<i>Nipa fruticans</i>	4	5	0.059	0.854	0.054	0.016	0.924	0.00001	2.51150
<i>Phoenix paludosa</i>	18	696	0.265	3.846	7.459	8.819	20.124	0.00450	1.17340
<i>Pongamia pinnata</i>	2	5	0.029	0.427	0.054	0.042	0.522		2.75910
<i>Rhizophora apiculata</i>	30	583	0.441	6.411	6.248	8.272	20.931	0.00487	1.15630
<i>Rhizophora mucronata</i>	2	2	0.029	0.427	0.021	0.025	0.474		2.80150
<i>Sonneratia apetala</i>	10	56	0.147	2.137	0.600	4.539	7.276	0.00059	1.61520
<i>Sonneratia caseolaris</i>	28	476	0.412	5.984	5.101	18.267	29.352	0.00957	1.00950
<i>Sonneratia griffithii</i>	21	95	0.309	4.487	1.018	1.535	7.040	0.00055	1.62960
<i>Sonneratia spp</i>	1	1	0.015	0.214	0.011	0.006	0.230		3.11500
<i>Xylocarpus granatum</i>	17	60	0.250	3.633	0.643	0.527	4.802	0.00026	1.79570
<i>Xylocarpus moluccensis</i>	6	14	0.088	1.282	0.150	0.212	1.644	0.00003	2.26130
TOTAL			6.88220	100.001	100.000	100.000	300.000	0.07896	68.36060

Table 3.3 Species Composition, Distribution and Zonation of Mangrove Forest of Laputta 2002

Species	No. of Plots Spp. Occurred (NPS)	No. of Ind. Spp Occurred (NIS)	Frequency	Relative Frequency (RF)	Relative Density (Rden)	Relative Dominance (Rdom)	Importance Value (IV)	Index of Dominance (C) ^o	Diversity Index (H)
<i>Avicennia alba</i>	3	9	0.0238	0.701	0.085	0.289	1.075	0.0000	2.4459
<i>Acrostichum aureum</i>	1	1	0.0079	0.233	0.009	0.018	0.260		3.0630
<i>Aegiceras corniculatum</i>	32	166	0.2540	7.479	1.559	1.436	10.474	0.0012	1.4570
<i>Acanthus ilicifolius</i>	1	1	0.0079	0.233	0.009	0.004	0.246		3.0855
<i>Avicennia marina</i>	3	60	0.0238	0.701	0.563	1.142	2.407	0.0001	2.0957
<i>Amoora cucullata</i>	4	9	0.0317	0.933	0.085	0.115	1.133	0.0000	2.4228
<i>Antidesma pentandrum</i>	1	1	0.0079	0.233	0.009	0.008	0.250		3.0795
<i>Avicennia officinalis</i>	11	320	0.0873	2.570	3.005	14.060	19.635	0.0043	1.1841
<i>Aegialitis rotundifolia</i>	4	444	0.0317	0.933	4.169	4.518	9.621	0.0010	1.4939
<i>Bruguiera gymnorrhiza</i>	48	742	0.3810	11.218	6.968	6.458	24.644	0.0068	1.0854
<i>Bruguiera sexangula</i>	9	94	0.0714	2.102	0.883	0.776	3.761	0.0002	1.9019
<i>Brownlowia tersa</i>	25	547	0.1984	5.842	5.137	2.652	13.630	0.0021	1.3426
<i>Caesalpinia cristae</i>	2	15	0.0159	0.468	0.141	0.062	0.671	0.0000	2.6504
<i>Ceriops decandra</i>	65	3728	0.5159	15.190	35.008	16.253	66.451	0.0491	0.6546
<i>Cerbera manghas</i>	1	9	0.0079	0.233	0.085	0.074	0.391		2.8854
<i>Cerbera odollum</i>	1	1	0.0079	0.233	0.009	0.007	0.249		3.0809
<i>Clerodendrum inerme</i>	4	164	0.0317	0.933	1.540	0.591	3.065	0.0001	1.9908
<i>Cynometra ramiflora</i>	2	12	0.0159	0.468	0.113	0.126	0.707	0.0000	2.6277
<i>Diospyros embryopteris</i>	3	15	0.0238	0.701	0.141	0.245	1.087	0.0000	2.4409
<i>Derris scandens</i>	1	18	0.0079	0.233	0.169	0.265	0.666		2.6534
<i>Dalbergia spinosa</i>	6	17	0.0476	1.402	0.160	0.211	1.772	0.0000	2.2287
<i>Excoecaria agallocha</i>	10	503	0.0794	2.338	4.723	6.914	13.975	0.0022	1.3318
<i>Eupatorium odonatum</i>	1	7	0.0079	0.233	0.066	0.026	0.324		2.9660
<i>Flagellaria indica</i>	1	11	0.0079	0.233	0.103	0.021	0.357		2.9241
<i>Heritiera fomes</i>	64	668	0.5079	14.955	6.273	8.375	29.602	0.0097	1.0058
<i>Heritiera littoralis</i>	1	11	0.0079	0.233	0.103	0.141	0.477		2.7985
<i>Hibiscus tiliaceus</i>	11	482	0.0873	2.570	4.526	2.800	9.897	0.0011	1.4816
<i>Kandelia candel</i>	4	44	0.0317	0.933	0.413	0.290	1.636	0.0000	2.2633
<i>Instia bijuga</i>	1	10	0.0079	0.233	0.094	0.030	0.357		2.9246
<i>Nipa fruticans</i>	1	1	0.0079	0.233	0.009	0.004	0.246		3.0855
<i>Pongamia pinnata</i>	3	9	0.0238	0.701	0.085	0.192	0.977	0.0000	2.4871
<i>Phoenix paludosa</i>	28	550	0.2222	6.542	5.165	8.043	19.751	0.0043	1.1815
<i>Rhizophora apiculata</i>	46	1752	0.3651	10.750	16.452	19.267	46.469	0.0240	0.8100
<i>Rhizophora mucronata</i>	3	9	0.0238	0.701	0.085	0.148	0.933	0.0000	2.5071
<i>Sonneratia apetala</i>	5	20	0.0397	1.169	0.188	0.371	1.728	0.0000	2.2397
<i>Sonneratia griffithii</i>	10	164	0.0794	2.338	1.540	3.583	7.461	0.0006	1.6043
<i>Xylocarpus granatum</i>	11	34	0.0873	2.570	0.319	0.467	3.357	0.0001	1.9512
<i>Xylocarpus moluccensis</i>	1	1	0.0079	0.233	0.009	0.019	0.261		3.0610
TOTAL	428	10,649	3.3963	100.000	100.000	100.000	299.9998	0.10695	82.4932

Table 3.4 Tree Growth Structures of Mangrove Forest by Plot , Bogalay, 2002.

Transect/ Plot	Growth/Yield Parameters							Volume Class	Stocking Class
	Stand Volume (SV)	Stand Stock (N)	Mean Diameter (Dg)	Stand Dominant Height (Ho)	Mean Dia. of Dominant Height (Dho)	Stand Mean Height (H)	Stand Basal Area (G)		
	(m3/ha)	(#/ha)	(cm)	(m)	(cm)	(m)	(m2/ha)		
T1P1	1.98	577.78	6.54	4.53	8.17	2.90	2.36	d	DA
Average	1.98	577.78	6.54	4.53	8.17	2.90	2.36		
T2P1	10.76	1725.00	7.70	7.80	10.77	4.24	8.97	d	AS
Average	10.76	1725.00	7.70	7.80	10.77	4.24	8.97		
T3P1	11.98	400.00	9.20	8.17	22.00	4.16	5.02	d	OD
Average	11.98	400.00	9.20	8.17	22.00	4.16	5.02		
T4P1	1.19	500.00	5.28	5.10	10.00	2.46	1.33	d	DA
Average	1.19	500.00	5.28	5.10	10.00	2.46	1.33		
T5P1	23.79	2100.00	5.93	10.17	23.70	2.86	9.19	d	AS
Average	23.79	2100.00	5.93	10.17	23.70	2.86	9.19		
T6P1	3.94	500.00	8.39	5.07	14.67	3.27	4.01	d	DA
T6P2	10.72	1875.00	8.63	5.13	16.00	3.19	12.18	d	AS
T6P3	14.76	1700.00	10.87	6.70	14.10	3.40	16.37	d	AS
T6P4	15.30	2900.00	6.65	11.17	10.87	4.74	11.28	d	AS
T6P5	29.12	2825.00	7.49	12.17	13.83	6.19	14.83	c	AS
Average	14.77	1960.00	8.41	8.05	13.89	4.16	11.73		
T7P1	58.37	3050.00	8.32	32.17	14.17	8.66	20.38	c	AS
Average	58.37	3050.00	8.32	32.17	14.17	8.66	20.38		
T8P1	43.91	1775.00	8.39	11.70	31.63	5.00	18.82	c	AS
T8P2	16.25	1375.00	6.59	10.33	25.30	4.37	8.18	d	IS
Average	30.08	1575.00	7.49	11.02	28.47	4.68	13.50		
T9P1	12.09	1325.00	6.81	9.33	19.57	4.91	6.55	d	IS
T9P2	35.26	1400.00	9.86	11.50	21.80	6.07	15.72	c	IS
Average	23.67	1362.50	8.34	10.42	20.68	5.49	11.14		
T10P1	12.12	3025.00	4.79	9.17	12.40	3.81	7.76	d	AS
Average	12.12	3025.00	4.79	9.17	12.40	3.81	7.76		
T11P1	26.97	4200.00	5.90	11.67	14.33	4.54	15.34	c	AS
Average	26.97	4200.00	5.90	11.67	14.33	4.54	15.34		
T12P1	9.99	2925.00	3.92	19.00	3.20	2.41	3.62	d	AS
T12P2	0.14	100.00	3.68	4.97	4.07	4.53	0.11	d	OD
T12P3	1.62	2500.00	3.95	3.67	6.07	1.83	3.26	d	AS
T12P4	3.00	4600.00	4.09	4.60	3.10	1.86	6.28	d	AS
T12P5	7.12	1800.00	6.21	6.50	12.13	3.14	6.95	d	AS
Average	4.37	2385.00	4.37	7.75	5.71	2.75	4.05		
T13P1	4.19	3025.00	3.66	6.33	10.20	3.30	3.91	d	AS
Average	4.19	3025.00	3.66	6.33	10.20	3.30	3.91		
T14P1	59.98	5700.00	5.20	12.00	26.97	4.11	18.47	c	AS
T14P2	29.37	8475.00	4.41	10.50	13.97	3.15	15.92	c	AS
T14P3	54.39	5525.00	5.43	11.17	14.50	4.79	16.33	c	AS
T14P4	50.70	6600.00	5.04	11.50	16.10	4.45	17.42	c	AS
T14P5	22.24	3650.00	5.32	9.83	8.67	4.89	9.92	d	AS
T14P6	12.37	4400.00	4.24	8.67	9.50	3.16	7.63	d	AS
T14P7	25.99	4050.00	4.79	23.00	2.70	6.66	9.59	c	AS
T14P8	14.00	5125.00	4.55	9.33	12.33	4.06	10.36	d	AS
T14P9	15.89	4825.00	4.30	9.67	9.03	4.30	8.99	d	AS
T14P10	20.61	4500.00	5.62	10.50	11.27	5.19	12.96	d	AS
T14P11	25.67	7475.00	4.78	8.60	5.67	3.75	16.72	c	AS
Average	30.11	5484.09	4.88	11.34	11.88	4.41	13.12		
T15P1	24.72	2875.00	6.77	10.20	17.60	4.74	14.16	d	AS
T15P2	11.76	3575.00	4.78	7.17	8.73	4.53	7.26	d	AS
T15P3	20.05	4775.00	4.38	9.00	14.53	3.84	9.24	d	AS
T15P4	19.98	3927.27	4.38	10.83	22.77	4.07	9.13	d	AS
Average	19.13	3788.07	5.08	9.30	15.91	4.30	9.95		
T16P1	89.04	5025.00	5.92	12.67	20.07	4.52	20.62	b	AS
T16P2	82.83	5000.00	5.40	10.83	10.57	5.40	13.51	b	AS
T16P3	81.48	5850.00	4.98	8.83	9.30	5.02	13.43	b	AS
T16P4	82.80	4100.00	5.92	10.50	14.87	5.22	15.37	b	AS

Table 3.4 Tree Growth Structures of Mangrove Forest by Plot , Bogalay, 2002.

Transect/ Plot	Growth/Yield Parameters							Volume Class	Stocking Class
	Stand Volume (SV)	Stand Stock (N)	Mean Diameter (Dg)	Stand Dominant Height (Ho)	Mean Dia. of Dominant Height (Dho)	Stand Mean Height (H)	Stand Basal Area (G)		
	(m3/ha)	(#/ha)	(cm)	(m)	(cm)	(m)	(m2/ha)		
T16P5	7.58	4675.00	3.38	7.00	7.97	2.51	5.17	d	AS
T16P6	28.22	3175.00	5.75	9.83	11.37	5.49	9.74	c	AS
T16P7	45.19	3350.00	6.19	9.50	9.27	5.60	12.54	c	AS
T16P8	45.00	2275.00	5.97	8.73	23.63	3.66	9.93	c	AS
Average	57.77	4181.25	5.44	9.74	13.38	4.68	12.54		
T17P1	49.16	3125.00	6.11	13.67	19.43	5.46	30.53	c	AS
T17P2	74.90	4050.00	7.04	15.50	23.93	6.37	25.91	c	AS
Average	62.03	3587.50	6.58	14.58	21.68	5.92	28.22		
T18P1	9.44	4425.00	4.95	7.17	8.10	3.29	9.68	d	AS
Average	9.44	4425.00	4.95	7.17	8.10	3.29	9.68		
T19P1	29.23	4075.00	5.68	11.50	9.03	4.69	13.80	c	AS
T19P2	33.16	4475.00	5.65	10.50	13.33	4.76	13.84	c	AS
Average	31.20	4275.00	5.67	11.00	11.18	4.73	13.82		
T20P1	68.91	3575.00	7.62	12.83	27.67	5.89	22.88	c	AS
T20P2	12.25	3300.00	5.25	10.00	15.60	3.64	8.61	d	AS
Average	40.58	3437.50	6.43	11.42	21.63	4.77	15.74		
T21P1	8.39	2050.00	5.95	8.83	6.80	3.83	7.10	d	AS
Average	8.39	2050.00	5.95	8.83	6.80	3.83	7.10		
T22P1	130.75	1975.00	7.88	15.70	60.27	3.57	36.74	b	AS
Average	130.75	1975.00	7.88	15.70	60.27	3.57	36.74		
T23P1	4.65	1600.00	5.63	6.50	5.83	4.10	4.37	d	IS
Average	4.65	1600.00	5.63	6.50	5.83	4.10	4.37		
T24P1	48.36	2825.00	4.93	8.33	13.47	3.52	6.79	c	AS
Average	48.36	2825.00	4.93	8.33	13.47	3.52	6.79		
T25P1	7.95	5000.00	4.13	20.00	5.00	3.58	7.60	d	AS
T25P2	4.81	3925.00	3.66	6.83	7.17	3.26	4.94	d	AS
T25P3	14.14	1293.10	6.06	9.67	17.33	4.40	4.87	d	IS
Average	8.97	3406.03	4.62	12.17	9.83	3.75	5.80		
T26P1	77.60	2950.00	10.73	12.00	14.30	8.58	31.27	b	AS
T26P2	62.97	3050.00	9.63	12.00	17.83	6.67	28.25	c	AS
T26P3	51.59	1850.00	10.94	11.67	22.57	6.55	22.82	c	AS
Average	64.05	2616.67	10.43	11.89	18.23	7.27	27.45		
T27P1	46.84	3725.00	6.99	10.33	16.30	5.02	17.58	c	AS
T27P2	46.47	5125.00	6.01	11.83	15.23	4.65	21.94	c	AS
Average	46.66	4425.00	6.50	11.08	15.77	4.83	19.76		
T28P1	71.80	3900.00	6.45	14.50	30.97	4.78	21.89	c	AS
Average	71.80	3900.00	6.45	14.50	30.97	4.78	21.89		
T29P1	38.62	3275.00	6.38	11.33	30.00	4.67	15.75	c	AS
T29P2	11.06	2425.00	5.78	7.73	9.43	4.89	7.45	d	AS
Average	24.84	2850.00	6.08	9.53	19.72	4.78	11.60		
TOTAL AVE.	30.45	2783.15	6.32	10.53	16.52	4.36	12.39	c	AS
TOTAL	882.97	80711.39	183.42	305.41	479.14	126.55	359.24		

Volume Class	Code	m3/ha	Stocking Class	Code	Trees/ha	Tree Density
* High Volume	a	> 150	Adequate Stock	AS	> 1,600	Highly Dense
* Medium Volume	b	> 75-150	Inadequate Stock	IS	> 1,000 - 1,600	Sparse Density
* Low Volume	c	> 25-75	Denuded Areas	DA	> 400 - 1,000	Degraded
* Cleared/Open Areas	d	< 25	Open/Deruded Areas	ODA	< 400	Open

Table 3.5 Tree Growth Structures of Mangrove Forest by Plot in Laputta 2002.

Transect/ Plot	Growth/Yield Parameters							Volume Class	Stocking Class
	Stand Volume (SV) (m3/ha)	Stand Stock (N) (#/ha)	Mean Diameter (Dg) (cm)	Stand Dominant Height (Ho) (m)	Mean Dia. of Dominant Height (Dho) (cm)	Stand Mean Height (H) (m)	Stand Basal Area (G) (m2/ha)		
T1P1	34.51	11950	4.68	9.13	10.03	4.49	24.16	c	AS
Average	34.51	11950	4.68	9.13	10.03	4.49	24.16		
T2P1	23.57	3700	6.58	7.93	8.67	5.38	14.64	d	AS
Average	23.57	3700	6.58	7.93	8.67	5.38	14.64		
T3P1	0.39	308	5.49	3.80	5.23	2.34	0.75	d	OD
T3P2	1.96	625	6.04	5.67	8.47	3.71	1.95	d	DA
T3P3	4.53	1850	3.77	6.03	9.23	2.85	2.68	d	AS
Average	2.30	928	5.10	5.17	7.64	2.97	1.79		
T4P1	33.36	2675	4.95	12.67	18.43	3.62	8.79	c	AS
T4P2	24.87	2500	5.64	9.60	17.47	4.13	8.65	d	AS
Average	29.12	2588	5.30	11.13	17.95	3.87	8.72		
T5P1	82.54	3975	4.41	5.90	5.93	3.07	7.12	b	AS
T5P2	52.63	4225	4.00	5.67	7.33	2.57	6.04	c	AS
T5P3	23.44	3450	3.48	5.17	8.73	2.66	3.79	d	AS
Average	52.87	3883	3.96	5.58	7.33	2.77	5.65		
T6P1	34.80	2825	5.08	7.73	12.83	3.60	7.06	c	AS
T6P2	7.92	9150	4.28	3.83	3.40	2.06	14.73	d	AS
T6P3	77.90	3923	5.37	9.67	13.83	3.85	10.50	b	AS
Average	40.20	5299	4.91	7.08	10.02	3.17	10.76		
T7P1	130.46	4400	4.03	5.53	7.93	2.97	6.27	b	AS
Average	130.46	4400	4.03	5.53	7.93	2.97	6.27		
T8P1	32.78	6650	5.61	9.50	9.87	4.77	19.87	c	AS
Average	32.78	6650	5.61	9.50	9.87	4.77	19.87		
T9P1	69.92	4208	6.03	8.83	10.93	5.43	14.86	c	AS
Average	69.92	4208	6.03	8.83	10.93	5.43	14.86		
T10P1	54.08	7400	4.35	5.60	4.83	4.73	11.66	c	AS
Average	54.08	7400	4.35	5.60	4.83	4.73	11.66		
T11P1	192.29	6475	4.67	9.50	12.80	4.51	13.64	a	AS
Average	192.29	6475	4.67	9.50	12.80	4.51	13.64		
T12P1	78.34	1350	13.64	12.10	24.83	7.23	28.67	b	IS
T12P2	5.38	1800	4.79	7.13	8.63	3.81	4.13	d	AS
T12P3	5.60	4000	3.79	6.00	6.80	3.30	5.19	d	AS
T12P4	9.12	5300	3.46	6.93	3.93	3.17	5.79	d	AS
T12P5	16.47	3200	4.47	5.53	9.20	3.13	6.24	d	AS
T12P6	20.00	3300	5.03	5.67	7.00	4.02	7.48	d	AS
T12P7	11.00	5200	3.10	4.43	5.87	3.02	4.61	d	AS
T12P8	18.40	6100	3.33	5.27	6.33	2.57	6.15	d	AS
T12P9	6.52	1300	4.26	5.10	5.50	3.76	2.01	d	IS
T12P10	36.00	6200	3.88	6.53	9.30	3.72	9.49	c	AS
T12P11	33.62	4500	4.93	6.50	8.83	4.33	9.76	c	AS
T12P12	42.64	5800	4.58	6.27	5.47	4.52	11.53	c	AS
T12P13	46.68	6200	4.60	5.83	7.13	4.08	11.77	c	AS
T12P14	47.31	6400	4.46	6.73	7.67	3.80	12.45	c	AS
T12P15	49.65	6800	4.29	5.93	6.80	3.81	11.60	c	AS
T12P16	54.20	7800	3.33	5.70	6.63	3.34	7.86	c	AS
T12P17	50.70	7800	4.09	5.43	6.07	3.25	12.20	c	AS
T12P18	56.65	9100	2.78	5.13	4.80	3.24	5.89	c	AS
T12P19	22.01	4300	3.25	4.83	5.20	2.95	3.99	d	AS
T12P20	22.91	19200	2.63	4.77	4.03	2.98	11.62	d	AS
T12P21	22.15	31700	2.28	3.63	3.80	2.66	13.54	d	AS
T12P22	7.14	17800	2.37	3.50	3.33	2.64	8.11	d	AS
T12P23	22.53	49000	2.32	25.00	2.00	3.07	22.03	d	AS
T12P24	14.88	47600	2.29	3.60	3.27	2.72	21.28	d	AS
T12P25	17.01	27600	2.56	4.90	5.37	3.90	16.18	d	AS

Table 3.5 Tree Growth Structures of Mangrove Forest by Plot in Laputta 2002.

Transect/ Plot	Growth/Yield Parameters							Volume Class	Stocking Class
	Stand Volume (SV)	Stand Stock (N)	Mean Diameter (Dg)	Stand Dominant Height (Ho)	Mean Dia. of Dominant Height (Dho)	Stand Mean Height (H)	Stand Basal Area (G)		
	(m3/ha)	(#/ha)	(cm)	(m)	(cm)	(m)	(m2/ha)		
T12P26	41.53	37400	3.33	6.67	7.87	3.89	38.39	c	AS
T12P27	13.49	22000	2.88	4.83	3.77	3.44	15.14	d	AS
T12P28	24.56	35200	2.91	4.87	4.83	3.80	25.14	d	AS
T12P29	13.22	14200	3.21	5.50	5.47	4.41	12.93	d	AS
T12P30	13.41	18200	2.96	4.50	2.50	3.90	13.05	d	AS
T12P31	14.03	13000	3.40	5.77	6.27	3.31	13.36	d	AS
T12P32	33.86	33000	3.22	5.33	4.00	4.85	27.85	c	AS
T12P33	29.74	32800	3.25	5.33	3.33	4.04	28.95	c	AS
T12P34	11.48	11600	3.47	5.33	6.67	4.16	12.49	d	AS
T12P35	17.04	16800	3.36	5.00	3.67	4.37	15.24	d	AS
T12P36	28.55	20600	3.58	7.00	4.67	4.70	22.45	c	AS
T12P37	22.51	21400	3.42	5.67	5.67	4.20	20.89	d	AS
T12P38	22.86	16400	3.73	6.00	3.33	4.65	19.23	d	AS
T12P39	20.30	14600	3.48	7.33	7.00	4.99	15.02	d	AS
T12P40	10.26	6100	3.85	7.00	6.67	3.98	8.29	d	AS
T12P41	12.28	2400	5.46	8.00	8.67	4.67	6.76	d	AS
T12P42	9.66	3800	4.50	7.00	8.67	4.63	6.98	d	AS
T12P43	17.34	5100	5.22	8.00	7.33	4.96	12.03	d	AS
T12P44	23.65	3500	5.06	10.00	13.33	5.34	10.72	d	AS
T12P45	31.09	2700	7.70	9.67	13.67	5.81	15.28	c	AS
Average	25.06	13781	3.97	6.47	6.56	3.94	13.33		
T13P1	4.75	600	7.00	6.33	9.33	4.83	2.95	d	DA
T13P2	6.53	600	8.67	7.00	12.00	5.17	4.08	d	DA
T13P3	1.85	400	6.25	5.00	6.67	4.75	1.39	d	OD
T13P4	13.63	4900	5.41	5.00	5.00	4.63	11.68	d	AS
T13P5	12.11	6100	4.39	5.00	6.00	3.66	11.18	d	AS
T13P6	2.49	4700	2.89	5.00	6.00	1.87	3.60	d	AS
T13P7	1.68	10700	2.00	2.00	2.00	2.00	3.36	d	AS
T13P8	1.98	1400	6.00	2.00	6.00	2.00	3.96	d	IS
T13P9	11.33	10900	3.70	4.00	7.00	3.17	14.11	d	AS
T13P10	26.02	12500	3.99	40.00	3.00	6.10	19.08	c	AS
T13P11	16.70	4900	5.45	6.00	8.00	4.76	12.59	d	AS
T13P12	12.05	7900	4.09	5.00	7.00	3.54	11.74	d	AS
T13P13	15.16	3900	5.74	6.00	7.00	4.67	11.09	d	AS
T13P14	6.40	3300	4.33	6.00	7.00	3.61	5.65	d	AS
T13P15	1.57	2600	2.88	4.00	4.00	2.81	1.88	d	AS
T13P16	10.27	5600	4.59	6.00	7.33	3.55	9.89	d	AS
T13P17	4.60	3900	3.85	4.00	6.00	3.28	5.09	d	AS
T13P18	9.54	14200	2.96	5.00	5.00	2.89	11.18	d	AS
T13P19	4.35	2600	4.35	5.00	5.00	4.35	3.90	d	AS
T13P20	14.46	14000	3.74	5.00	6.00	3.01	16.36	d	AS
T13P21	1.20	1800	3.28	3.67	3.33	3.11	1.55	d	AS
T13P22	7.15	8600	3.30	5.00	5.00	3.05	8.18	d	AS
T13P23	12.78	31800	2.43	5.00	4.33	3.04	16.10	d	AS
T13P24	8.77	15600	3.18	4.00	4.33	2.58	13.04	d	AS
T13P25	21.36	40000	3.39	4.67	6.33	2.14	37.53	d	AS
T13P26	12.08	19600	3.20	5.00	5.67	2.56	16.90	d	AS
T13P27	14.00	17000	3.05	5.67	6.33	3.07	14.81	d	AS
T13P28	12.59	14400	3.26	5.33	6.00	2.93	14.34	d	AS
T13P29	9.84	6900	4.16	6.00	5.67	3.48	10.38	d	AS
T13P30	1.65	1600	3.56	5.00	4.33	3.75	1.66	d	IS
T13P31	1.95	1800	4.00	3.67	5.33	2.72	2.48	d	AS
T13P32	1.90	2200	3.77	4.00	4.00	3.00	2.52	d	AS
T13P33	9.92	5600	4.16	7.00	7.67	3.39	8.96	d	AS

Table 3.5 Tree Growth Structures of Mangrove Forest by Plot in Laputta 2002.

Transect/ Plot	Growth/Yield Parameters							Volume Class	Stocking Class
	Stand Volume (SV) (m3/ha)	Stand Stock (N) (#/ha)	Mean Diameter (Dg) (cm)	Stand Dominant Height (Ho) (m)	Mean Dia. of Dominant Height (Dho) (cm)	Stand Mean Height (H) (m)	Stand Basal Area (G) (m2/ha)		
T13P34	5.26	4600	3.78	20.00	4.00	3.98	5.42	d	AS
T13P35	4.03	2900	4.24	4.00	6.67	3.24	4.56	d	AS
T13P36	2.57	3200	3.59	4.00	4.67	2.91	3.39	d	AS
T13P37	8.35	6800	3.99	5.00	6.33	3.22	9.34	d	AS
T13P38	7.28	4400	4.45	5.00	6.00	3.86	7.23	d	AS
T13P39	5.52	3800	3.97	6.67	6.67	3.61	5.22	d	AS
T13P40	1.05	1500	3.47	3.00	3.67	2.87	1.45	d	IS
T13P41	1.25	1300	4.00	3.00	3.67	3.00	1.67	d	IS
T13P42	7.67	2400	5.04	7.00	8.33	4.50	5.63	d	AS
T13P43	1.65	400	5.50	4.33	6.67	3.75	1.48	d	OD
T13P44	7.52	1200	6.00	7.67	5.67	5.25	3.74	d	IS
T13P45	5.47	1600	4.81	5.33	7.33	3.75	3.34	d	IS
T13P46	3.91	2500	4.28	5.00	5.00	4.04	3.75	d	AS
T13P47	6.01	1500	5.73	7.00	8.67	5.00	4.26	d	IS
T13P48	4.50	1100	6.36	4.67	7.67	3.64	3.66	d	IS
Average	7.60	6704	4.30	6.02	5.93	3.54	7.86		
T14P1	41.26	5600	4.00	5.00	6.00	3.63	7.95	c	AS
T14P2	37.48	5200	3.33	4.00	3.67	2.46	5.25	c	AS
T14P3	19.53	3200	2.97	4.00	4.33	2.41	2.51	d	AS
T14P4	46.60	6700	3.01	8.00	4.00	2.27	5.51	c	AS
T14P5	62.96	9200	2.60	3.00	4.00	1.51	5.58	c	AS
T14P6	67.89	10000	2.54	2.00	2.00	1.29	5.58	c	AS
T14P7	49.01	7000	2.93	3.00	4.00	1.81	5.44	c	AS
T14P8	32.14	4600	3.26	3.00	3.67	1.41	4.29	c	AS
T14P9	45.36	6700	2.39	2.67	3.33	1.24	3.24	c	AS
T14P10	27.74	4000	2.88	2.67	4.00	1.48	2.88	c	AS
Average	43.00	6220	2.99	3.73	3.90	1.95	4.82		
T15P1	107.46	3675	4.27	4.00	5.00	2.52	5.55	b	AS
T15P2	39.33	3275	4.34	5.00	8.00	2.47	5.31	c	AS
T15P3	5.51	2325	5.02	7.00	7.00	3.61	5.25	d	AS
Average	50.77	3092	4.55	5.33	6.67	2.87	5.37		
T16P1	32.66	4175	6.09	11.00	17.33	4.43	17.61	c	AS
Average	32.66	4175	6.09	11.00	17.33	4.43	17.61		
T17P1	23.31	4025	5.97	8.67	15.67	4.58	14.75	d	AS
Average	23.31	4025	5.97	8.67	15.67	4.58	14.75		
TOTAL AVE.	49.68	5616	4.89	7.42	9.65	3.90	11.52		
TOTAL	3154.86	1110518	522.90	779.40	831.95	449.37	1251.68		

Volume Class	Code	m3/ha	Stocking Class	Code	Trees/ha.	Tree Density
* High Volume	a	> 150	Adequate Stock	AS	> 1,600	Highly Dense
* Medium Volume	b	> 75-150	Inadequate Stock	IS	> 1,000 - 1,600	Sparse Density
* Low Volume	c	> 25-75	Denuded Areas	DA	> 400 - 1,000	Degraded
* Cleared/Open Areas	d	< 25	Open/Deruded Areas	ODA	< 400	Open

Table 3.6 Stand and Stock Table of Mangrove Forest Species in Kadonkani RF, Bogalay, 2002.

Species	Diameter Class (cm)																										
	5		10		15		20		25		30		35		40		45		50		55		75		TOTAL		
	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V	
<i>Avicennia alba</i>	1525	2.600	300	1.102	200	1.270	25	0.178																		2050	5.1494
<i>Aegiceras corniculatum</i>	7853	16.860	550	1.183																						8403	18.0426
<i>Acanthus ilicifolius</i>	25	0.079																								25	0.0787
<i>Avicennia marina</i>	625	1.218	75	0.113																						700	1.3304
<i>Amoora cucullata</i>	5475	13.640	703	2.236	25	0.119																				6203	15.9948
<i>Avicennia officinalis</i>	4245	11.243	3010	12.090	2210	11.974	970	5.871	265	1.735	50	0.312			25	0.175										10775	43.4003
<i>Barringtonia acutangula</i>	10150	12.559	250	0.362	25	0.097																				10425	13.0173
<i>Bruguiera gymnorhiza</i>	4000	120.417	1275	39.066	75	2.292																				5350	161.7750
<i>Bruguiera parviflora</i>	350	9.782																								350	9.7822
<i>Barringtonia racemosa</i>	2694	3.545	125	0.290																						2819	3.8344
<i>Bruguiera sexangula</i>	1450	43.578	550	16.794	125	3.832	50	1.555																		2175	65.7594
<i>Brownlowia tersa</i>	48189	79.943	100	0.226	25	0.156																				48314	80.3246
<i>Ceriops decandra</i>	4945	10.265	43	0.143																						4989	10.4080
<i>Cerbera manghas</i>			25	0.073																						25	0.0728
<i>Cerbera odollum</i>	100	0.215																								100	0.2153
<i>Cynometra ramiflora</i>	1963	4.097	350	1.274																						2313	5.3705
<i>Dalbergia spinosa</i>	175	0.324																								175	0.3236
<i>Excoecaria agallocha</i>	1825	5.046	425	1.962	125	0.622																				2375	7.6297
<i>Ficus spp</i>	100	0.290	125	0.462	25	0.104																				250	0.8552
<i>Heritiera fomes</i>	41881	120.222	9447	42.352	1775	10.874	75	0.549																		53178	173.9971
<i>Hibiscus tiliaceus</i>	2354	4.705	25	0.045																						2379	4.7492
<i>Instia bijuga</i>	175	0.401	175	1.010																						350	1.4108
<i>Kandelia candel</i>	13778	36.658	1959	6.649																						15737	43.3070
<i>Merope angulata</i>	1325	2.321																								1325	2.3209
<i>Nipa fruticans</i>	75	0.171																								75	0.1707
<i>Phoenix paludosa</i>	8538	17.561	5125	13.234	525	1.273	25	0.116																		14213	32.1835
<i>Pongamia pinnata</i>	100	0.218	25	0.059																						125	0.2776
<i>Rhizophora apiculata</i>	8566	268.131	4967	158.407	875	27.897	50	1.596																		14457	456.0307
<i>Rhizophora mucronata</i>	25	0.745	25	0.765																						50	1.5100
<i>Sonneratia apetala</i>	1225	3.428	300	1.042	150	0.757	25	0.171	25	0.193								25	0.215	75	0.699	25	0.223			1850	6.7288
<i>Sonneratia caseolaris</i>	6136	13.685	2346	9.569	1321	7.716	864	5.664	308	2.213	245	1.705	150	1.016	50	0.431	25	0.223								11445	42.2212
<i>Sonneratia griffithii</i>	1427	3.647	409	1.576	325	1.448	75	0.490																		2236	7.1606
<i>Sonneratia alba</i>	25	0.067																								25	0.0668
<i>Xylocarpus granatum</i>	1163	35.688	300	9.294	25	0.779																				1488	45.7610
<i>Xylocarpus moluccensis</i>	200	6.116	150	4.658																						350	10.7735
TOTAL	182481	843.3471	33009	321.3756	7831	71.2084	2159	16.1897	598	4.1411	295	2.0167	150	1.0157	75	0.6058	25	0.2227	25	0.2153	75	0.6993	25	0.2227	226748	1261.260	
%	80.48	66.87	14.56	25.48	3.45	5.65	0.95	1.28	0.26	0.33	0.13	0.16	0.07	0.08	0.03	0.05	0.01	0.02	0.01	0.02	0.03	0.06	0.01	0.02	225048	1266.884	

Table 3.7 Stand and Stock Table of Mangrove Forest Species in Laputta 2002.

Species	Diameter Class (cm)														TOTAL	
	5		10		15		20		25		30		35		N	V
	N	V	N	V	N	V	N	V	N	V	N	V	N	V	N	V
<i>Avicennia alba</i>	200	0.66	25	0.29	-	-	25	0.28	-	-	-	-	-	-	250	1.23
<i>Acrostichum aureum</i>	25	0.06	-	-	-	-	-	-	-	-	-	-	-	-	25	0.06
<i>Aegiceras corniculatum</i>	12,856	47.10	125	1.12	-	-	-	-	-	-	-	-	-	-	12,981	48.23
<i>Acanthus ilicifolius</i>	100	0.37	-	-	-	-	-	-	-	-	-	-	-	-	100	0.37
<i>Avicennia marina</i>	2,950	16.08	1,425	12.01	-	-	-	-	-	-	-	-	-	-	4,375	28.09
<i>Amoora cucullata</i>	800	3.55	100	0.49	-	-	-	-	-	-	-	-	-	-	900	4.04
<i>Antidesma pentandrum</i>	100	0.37	-	-	-	-	-	-	-	-	-	-	-	-	100	0.37
<i>Avicennia officinalis</i>	5,475	24.36	3,000	24.49	975	9.38	350	4.52	400	5.67	100	1.45	25	0.38	10,325	70.26
<i>Aegialitis rotundifolia</i>	9,881	27.97	356	1.14	-	-	-	-	-	-	-	-	-	-	10,237	29.11
<i>Bruguiera gymnorrhiza</i>	54,215	535.48	1,466	17.07	115	1.56	-	-	-	-	-	-	-	-	55,796	554.11
<i>Bruguiera sexangula</i>	8,925	68.75	200	1.56	-	-	-	-	-	-	-	-	-	-	9,125	70.31
<i>Brownlowia tersa</i>	83,550	236.74	-	-	-	-	-	-	-	-	-	-	-	-	83,550	236.74
<i>Caesalpinia cristata</i>	1,125	2.73	-	-	-	-	-	-	-	-	-	-	-	-	1,125	2.73
<i>Ceriops decandra</i>	583,146	2,530.70	25	0.13	-	-	-	-	-	-	-	-	-	-	583,171	2,530.83
<i>Cerbera manghas</i>	1,800	7.84	-	-	-	-	-	-	-	-	-	-	-	-	1,800	7.84
<i>Cerbera odollum</i>	25	0.06	-	-	-	-	-	-	-	-	-	-	-	-	25	0.06
<i>Clerodendrum inerme</i>	16,400	39.09	-	-	-	-	-	-	-	-	-	-	-	-	16,400	39.09
<i>Cynometra ramiflora</i>	750	2.02	-	-	-	-	-	-	-	-	-	-	-	-	750	2.02
<i>Diospyros embryopteris</i>	327	1.36	50	0.31	-	-	-	-	-	-	-	-	-	-	377	1.67
<i>Derris scandens</i>	400	1.78	50	0.34	-	-	-	-	-	-	-	-	-	-	450	2.11
<i>Dalbergia spinosa</i>	496	1.63	-	-	100	0.49	-	-	-	-	-	-	-	-	596	2.12
<i>Excoecaria agallocha</i>	13,015	71.48	1,425	11.66	-	-	-	-	-	-	-	-	-	-	14,440	83.14
<i>Eupatorium odonatum</i>	175	0.88	-	-	-	-	-	-	-	-	-	-	-	-	175	0.88
<i>Flagellaria indica</i>	1,100	2.70	-	-	-	-	-	-	-	-	-	-	-	-	1,100	2.70
<i>Heritiera fomes</i>	64,913	333.67	4,862	38.34	-	-	-	-	-	-	-	-	-	-	69,775	372.01
<i>Heritiera littoralis</i>	275	1.23	-	-	-	-	-	-	-	-	-	-	-	-	275	1.23
<i>Hibiscus tiliaceus</i>	46,725	207.18	650	2.45	-	-	-	-	-	-	-	-	-	-	47,375	209.63
<i>Kandelia candel</i>	1,125	4.08	-	-	-	-	-	-	-	-	-	-	-	-	1,125	4.08
<i>Instia bijuga</i>	2,000	11.03	-	-	-	-	-	-	-	-	-	-	-	-	2,000	11.03
<i>Nipa fruticans</i>	25	0.09	-	-	-	-	-	-	-	-	-	-	-	-	25	0.09
<i>Pongamia pinnata</i>	150	0.75	150	0.84	-	-	-	-	-	-	-	-	-	-	300	1.59
<i>Phoenix paludosa</i>	43,450	225.39	3,425	24.02	-	-	-	-	-	-	-	-	-	-	46,875	249.41
<i>Rhizophora apiculata</i>	105,796	1,246.69	5,281	96.64	225	4.87	-	-	-	-	-	-	-	-	111,302	1,348.19
<i>Rhizophora mucronata</i>	475	5.36	40	1.53	-	-	-	-	-	-	-	-	-	-	515	6.89
<i>Sonneratia apetala</i>	400	1.53	50	0.49	25	0.29	-	-	-	-	-	-	-	-	475	2.31
<i>Sonneratia griffithii</i>	5,615	28.17	1,675	14.57	175	1.87	15	0.23	-	-	-	-	-	-	7,481	44.83
<i>Xylocarpus granatum</i>	1,077	24.04	108	2.39	-	-	-	-	-	-	-	-	-	-	1,185	26.43
<i>Xylocarpus moluccensis</i>	15	0.79	-	-	-	-	-	-	-	-	-	-	-	-	15	0.79
TOTAL	1,069,878	5,713.74	24,488	251.88	1,615	18.46	390	5.03	400	5.7	100	1.5	25	0.38	1,096,897	5,996.62
%	97.54	95.28	2.23	4.20	0.15	0.31	0.04	0.08	0.04	0.09	0.01	0.02	0.00	0.01	2,193,544	11,992.01

Table3.8 Mangrove Plantation Growth Structures by Age (2002)

TS	RF	FC No.	Species	Established Year	Plot	Stand Volume (SV) (m3/ha)	Stand Stock (N) (#/ha)	Mean Diameter (Dg) (cm)	Stand Dominant Height (Ho) (m)	Mean Dia. of Dominant Height (Dho) (cm)	Stand Mean Height (H) (m)	Stand Basal Area (G) (m2/ha)
Bogalay	Kadonkani	47	<i>Aegiceras corniculatum</i>	1993	1	3.00	4775	3.42	3.63	5.03	2.35	4.71
	Kadonkani	36	<i>Aegiceras corniculatum</i>	1998	1	4.64	9700	3.83	2.20	5.33	1.51	11.71
	Kadonkani	48	<i>Avicennia officinalis</i>	1992	1	20.90	2800	6.16	8.50	14.03	4.37	12.20
	Kadonkani	47	<i>Avicennia officinalis</i>	1993	1	33.15	3625	6.81	11.70	18.17	5.05	17.62
	Kadonkani	48	<i>Avicennia officinalis</i>	1994	1	18.31	1088	9.68	11.00	12.77	7.67	8.96
				1994	2	19.85	2238	8.61	6.87	14.10	5.29	14.17
	Kadonkani	36	<i>Avicennia officinalis</i>	1998	1	7.30	7800	4.10	4.60	6.17	2.38	11.01
				1998	2	23.60	4900	6.43	6.92	8.53	5.18	17.34
	Kadonkani	48	<i>Bruguiera gymnorrhiza</i>	1992	1	165.82	6275	4.48	9.10	7.77	5.24	11.73
				1992	2	11.89	300	12.26	12.00	20.00	8.79	4.34
	Kadonkani	49	<i>Ceriops decandra</i>	1992	1	11.24	5875	4.35	5.00	4.97	2.44	9.34
	Kadonkani	36	<i>Ceriops decandra</i>	1998	1	25.44	3700	3.51	3.30	3.47	1.78	3.81
	Kadonkani	49	<i>Excoecaria agallocha</i>	1992	1	6.64	1446	6.26	8.10	12.60	3.96	5.19
	Kadonkani	47	<i>Heritiera fomes</i>	1993	1	5.07	9900	2.98	4.93	3.67	2.29	8.29
				1993	2	10.43	6200	4.57	5.40	6.90	3.31	11.83
	Kadonkani	36	<i>Heritiera fomes</i>	1998	1	0.11	2100	2.05	0.91	2.10	0.60	0.76
	Kadonkani	49	<i>Lumnitzera racemosa</i>	1999	1	4.43	2700	4.25	5.27	5.60	4.04	4.05
	Kadonkani	36	<i>Rhizophora apiculata</i> <i>Rhizophora mucronata</i>	1998	1	39.28	5400	3.40	4.20	4.43	3.29	5.16
				Kadonkani	49	<i>Sonneratia apetala</i>	1994	1	71.86	1825	9.72	16.33
	Kadonkani	49	<i>Sonneratia apetala</i>	1998	1	32.18	1700	10.01	10.16	10.80	8.89	13.89
TOTAL AVE.						24.00	4062	5.65	6.86	9.36	4.15	9.58
TOTAL						515.14	84346	116.87	140.12	189.77	86.43	197.06
Laputta	Kyakankwinpauk	20	<i>Sonneratia apetala</i>	1995	1	86.75	5875	8.32	13.33	13.60	6.23	41.51
	Kyakankwinpauk	20	<i>Rhizophora apiculata</i>	1995	1	62.14	13500	4.11	6.90	6.70	3.53	21.52
				1995	2	106.50	14100	4.26	5.83	5.00	4.43	21.04
	Kyakankwinpauk	20	<i>Avicennia officinalis</i>	1995	1	8.02	7214	3.81	5.33	6.43	2.96	9.56
				1995	2	8.95	4714	4.33	5.87	10.90	3.00	8.75
				1995	3	8.31	7071	3.97	4.37	5.73	3.12	9.60
	Kyakankwinpauk	20	<i>Avicennia officinalis</i>	1995	4	6.13	5347	3.87	4.70	6.70	3.04	6.99
				Pyinalan	75	<i>Amoora cucullata</i>	1997	1	3.29	21300	1.93	2.77
	Pyinalan	76	<i>Avicennia officinalis</i>	1997	1	10.06	8900	3.77	5.47	7.23	3.05	11.10
	Pyinalan	71	<i>Sonneratia apetala</i>	1997	1	12.69	1900	7.35	6.47	9.20	5.39	8.81
	Pyinalan	71	<i>Avicennia officinalis</i>	1998	1	9.64	19200	2.80	4.63	5.17	2.66	13.31
	Kyakankwinpauk	20	<i>Albizia lebbek</i>	1998	1	14.12	11662	3.80	5.75	14.97	1.86	16.20
	TOTAL AVE.						28.61	11090	4.52	1.25	1.65	3.50
TOTAL						336.58	120783	52.31	71.41	94.21	41.08	175.20

Data book 4
Soil Survey of the Pilot Project Target Area

4. Soil Survey of the Pilot Project Target Area

4.1 Background

A soil survey of the pilot project target area was conducted from February to March 2003. The survey was conducted as a part of “the Natural Condition Survey of the Pilot Project Area: Thar Yar Kone and Nyaung Ta Pin Villages” subcontracted to Mangrove Service Network (MSN) of Yangon, Myanmar. In the natural condition survey, three surveys, namely demarcation survey, inundation survey, and soil survey of candidate pilot project sites were conducted by MSN. In following section, methods and results of the inundation survey and soil survey are summarized

4.2 Survey Area

The survey area is located approximately between 15°48'20"N and 15°51'55" N Latitude and 94°55'25" E and 95°1'10"E Longitude. The total area is approximately 486.16ha comprising, 180.63ha in the vicinity of the Thar Yar Kone village, and 305.53ha in Nyaung Ta Pin village. The breakdown of the survey area for inundation and soil survey is summarized in the following table. A map of the survey area is presented in the attachment 1.

Breakdown of Survey (Pilot Project Candidate) Area

	Forest Compartment	Area	
		Acre	Hectare
Thar Yar Kone Village			
Pilot Nursery Area in	75	8.45	3.42
Group No.1 NFIO	75	5.65	2.28
Group No.2 NFIO	75	3.75	1.52
Group No.3 Plantation	75	3.27	1.32
Group No.4 Plantation	75	7.54	3.04
Group No.5 NFIO	75	2.55	1.03
New Group	75	84.50	34.22
Group No. 6	57	330.49	133.80
Sub Total		446.20	180.63
Nyaung Ta Pin Village			
Group No. 1	58	143.98	58.29
Group No. 2	58	41.10	16.64
Group No. 3	58	127.21	51.50
Group No. 4	58	82.67	33.49
Group No. 5	58	101.42	41.06
Group No. 6	58	165.12	66.85
Group No. 7	57	11.14	4.51
Group No. 8	57	81.98	33.19
Sub Total		754.62	305.53
Total		1,200.82	486.16

4.3 Geology and Geomorphology

The main formation of the project area is alluvium comprising a mixed sequence of clay, silt and sand. The parent materials are nearly all alluvium. Geomorphologically, the whole project area includes in the marine flat plain with very little micro-topography which can be considered as higher, medium and lower ground as micro-relief.

4.4 Methodology

4.4.1 Inundation Survey

Possible tidal inundation areas were marked on the field base maps by visual interpretation from aerial photos both under stereoscopes and through computer enlargement of the digital images. During demarcation surveys and a series of separate independent inundation field surveys, the detail hydrology of the pilot project areas for both Nyaung Ta Pin and Thar Yar Kone village areas on the field base maps were proved and corrected as necessary. The land forms as resulted from the soil survey findings namely higher ground, medium ground and lower ground were also marked on the field base map. Tidal inundation condition at the time of field survey was noted as well. A few villagers selected from each candidate community forestry (CF) subgroup together with a Forest Department (FD) staff were interviewed to get the tidal condition information of each land form of the whole project areas for each season and for each type of tides. Then the inundated height of tidal water and frequency (days) for each season and for each land form were noted. From these information gathered from the community together with detailed hydrological networks shown on the map, tidal inundation areas by type of tides were located and delineated. The observed three types of tides in the project areas are defined as follows:-

(1) Spring Tide

The type of tide regularly occurred during the periods of new and full moon, when the sun, moon, and earth are directly in line which cause the solar and lunar domes of water to coincide resulting in the high tide to be higher and the low tide to be lower than usual. Spring tide always occurs twice a month during the first 3, 4, 5 waxing and waning days of the moon in the hot season, the cold season and the rainy season, respectively. The fluctuation or range of tidal water heights in a day is a maximum within a month period.

(2) Neap Tide

The type of tide regularly occurred during the periods when the moon is right angles to the sun relative to the earth and the height of the tides is subject to the opposing forces of

the sun and moon resulting the high tide to be lower and the low tide to be higher than normal. Neap tide always occurs twice a month starting on the 10th day of the both waxing and waning of the moon and lasts for 3 days only. The fluctuation of the tidal water heights in a day is minimum within a month period.

(3) Normal Tide

It is the regular and usual tide that occurs daily and is considered neither spring tide nor neap tide.

4.4.2 Soil Survey

(1) Method

The soil survey was conducted to find out what major type of soils are present in the survey area, where they are situated and how they can be used. From the pre-analyzed patterns of land and hydrology recognized on aerial photos, soil sampling sites were first marked. After a guide for classifying and naming of the soils was worked out, the tentative boundaries (polygons) of the individual soil mapping units were delineated on the aerial photos which show all details that help in delineating the boundaries accurately. The soil map prepared was entirely based on aerial photos, and not on cadastral map. The soil mapping units used was the soil types itself taking into consideration of the soil texture of the topsoil and subsoil. One or more soil profiles pits in every representative soil mapping unit were dug to represent each type depending on the extent and distribution of the soil.

At the selected locations of the soil pits, the soil profile characteristics and horizons were described and recorded. In selecting the soil pits, variation was taken into account and typical profiles were selected. The following properties and features of the soil were recorded, namely texture, color, structure, consistency, thickness and arrangement of soil horizons, presence of other features like roots, organic matter, humus, presence of pores, presence of wormholes, geology of parent materials where identifiable and identification of soil type.

Physiographic conditions surrounding the soils were also recorded, including topography, vegetation, drainage and soil depth. Soil Profile Descriptions were based on the standard established by FAO/UNESCO "Guidelines for Soil Profile Descriptions". All field data collected were plotted on the aerial photos of 1:5000 scale as the base map.

During the soil survey, samples of soils were taken for laboratory analysis. The soils were also field tested and interpretations were added to meet the local needs, mainly through field observations of different kinds of soils in different uses and under different

levels of management. Finally, the soil boundaries were checked, the final soil maps were drawn and the report was prepared.

The soil samples were taken from every 10 ha of the whole survey area. A total of 167 soil samples, comprising of 57 samples from the Thar Yar Kone village areas and 110 samples from the Nyaung Tap Pin village areas.

(2) Soil Classification

The system of soil classification in this report is based on Myanmar Conventional Classification. In this system, the basic mapping units are Type, Subtype, Species and Variety which are defined as follows:

Summary of Myanmar Conventional Soil Classification

Mapping Unit	Definitions
1.Type	a. Specific profile construction
	b. Main physico-chemical soil processes
	c. Definite level of fertility
	d. Definite set of environmental conditions and soil formation factors such as climate, geology, geomorphology, parent material and plant cover.
2.Sub-Type	a. Subsidiary and overlapping processes
	b. Stage of development and profile thickness
	c. Parent material (dominant / influential)
3. Species	a. Strength of main process (e.g. Gley process – whether strong, moderate, weak gleying)
4. Variety	a.Surface texture

(3) Identification of Ground Level

The land form of the survey area includes in the tidal belt of the marine flat plain which has neither "extremely high" nor "high" ground. However, for the possibility of differentiating the micro-topography (micro-relief) ,the land was classified into higher (only a little higher than the medium ground), medium and lower (only a little lower than the medium ground) ground in the flat plain to enable the concise soil classification.

Higher ground: The land area where the spring high tide did not reach at the time of field survey and has a little higher topography in the flat plain area with the dominant vegetation tree species of *Phoenix paludosa*

Medium ground: The land area where the spring high tide reached but no standing water was left after the high tide at the time of survey. Dominant species in this area generally includes *Ceriops decandra* and the level of ground water was observed below 25 cm at low tide time. The area comprises approximately 60% of the total study area.

Lower ground: The land area where it was flooded by the spring high tide at the time of field survey and most of the areas were either left with standing water or saturated with

water. The ground water level of some patches with no standing water was observed very near to the surface. The dominant species includes the family of *Rhizophoraceae*.

4.5 Results / Findings of the Survey

4.5.1 Inundation Survey

The tidal inundation frequency map of the spring, neap and normal tides of the hot season, the rainy season and the cold season is also attached as Attachment-2: Tide Inundation Frequency Map of Nyaung Ta Pin and Thar Yar Kone (2-1:Spring High Tide, 2-2: Normal High Tide). For each land form, the inundation frequency and depth of flooding water during high tides and low tides by type of tides for each season is shown in the following table: Status of Tidal Inundation Based on Ground Level of Survey Area.

Status of Tidal Inundation Based on Ground Level of Survey Area

Description	Hot season (March to June)						Rainy season (July to October)						Cold season (November to February)					
	Spring		Neap		Normal		Spring		Neap		Normal		Spring		Neap		Normal	
	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L
a. Frequency – no. of days/month (total hours)																		
1. Lower Ground	6 (36hr)		6 (18hr)		17 (68hr)		10 (80hr)		6 (24hr)		13 (78hr)		8 (48hr)		6 (24hr)		15 (30hr)	
2. Medium Ground	6 (24hr)		Nil		15 (30hr)		10 (60hr)		6 (24hr)		13 (78hr)		8 (32hr)		6 (24hr)		15 (30hr)	
3. Higher Ground	Nil		Nil		Nil		10 (20hr)		Nil		18 (36hr)		8 (16hr)		Nil		Nil	
b. Tidal water level above ground (cm)																		
1. Lower Ground	45	Nil	10	Nil	30	Nil	75	Nil	30	Nil	45	Nil	60	Nil	20	Nil	30	Nil
2. Medium Ground	JS	Nil	Nil	Nil	5	Nil	45	Nil	10	Nil	30	Nil	20	Nil	5	Nil	10	Nil
3. Higher Ground	Nil	Nil	Nil	Nil	Nil	Nil	15	Nil	Nil	Nil	JS	Nil	JS	Nil	Nil	Nil	Nil	Nil

Note: JS = Just saturated = All micro and macro pores of the soil are filled with water and at the same time no apparent standing water on the ground.

Nil = No tidal action, H = High, total hour = Duration of standing water, L = Low, hr = hours

4.5.2 Soil Survey

(1) Description of Soil Mapping Units

The mapping units shown on Attachment-3: Soil Map of Natural Condition Survey Area represents the subtype of soils of the project area. The soil mapping units were identified according to the 3 major land forms, namely, the higher ground, the medium ground and the lower ground. The descriptions together with the soil map can be used in determining the potential of a soil in planning land use and developing soil resources, and in enhancing, protecting and conserving the environment. Except for allowable differences in texture of the surface layer or of the underlying substratum, all the soils of the same type have major horizons that are similar in composition, thickness and arrangement in the profiles.

A complete list of soils which are shown on the soil maps of the project area as a result of the present survey are as follows:

- 1) Higher Ground
 1. Sandy Alluvium Deposited Soils
 2. Silty Alluvium Deposited Soils
- 2) Medium Ground
 1. Tidal Saline Silty Soils
 2. Tidal Saline Clayey Soils
- 3) SOILS OF THE LOWER GROUND
 1. Saline Swampy Soils

(2) Mapping Unit [I] Sandy Alluvium Deposited Soils

These soils occur in the project area with a relatively small area. They are derived from the deposition of the marine alluvium with lighter texture. The vegetation of the area is composed of *Phoenix paludosa* and *Excoecaria agallocha*. Some areas have been cleared for constructing dykes for shrimp pans. The main morphological feature of these soils is a distinctive color and a uniform deep profile. The soil has a low fertility, very low water holding capacity. The low pH (4.5 ~ 5.5) is relatively common of the sampled sites. They can be classified as a moderate potential productivity and may respond well to improved management. They are suitable for garden crops like coconut, guava and citrus.

(3) Mapping Unit [II] Silty Alluvium Deposited Soils

These soils are also situated near the river banks and are a little more fertile than the former type of soil. The sub horizons of these soils are subjected to oxidation or reduction of iron oxides caused by seasonal fluctuation of ground water level and the top horizons are relatively better in drainage and aeration. Those occurring near the creeks are having

heavier texture. The vegetation of the area is composed of *Phoenix paludosa*, *Excoecaria agallocha* and *Heritiera fomes*. They have moderate fertility, still low water holding capacity and the pH < 5.5 and also suitable for vegetables in rainy season.

(4) Mapping Unit [III] Tidal Saline Silty Soils

These soils are found in the medium ground level area. After flat plain of tidal sea alluvium have been formed, the surfaces are submerged at high tide and drained at low tide favoring *Ceriops decandra* and *Heritiera fomes*. Many of them with stilted roots, together with the fallen tree trunks, branches and leaves holds and consolidates the sediments until a firm mass of land becomes with existence.

Gradual-up building of the ground level help by uplifts of the land results in a level of land above the tides when it is covered by the mangrove forest. The soil has some weak differentiation into proper profiles. They have moderate fertility, low water holding capacity, pH 5.5 ~ 6.0. They have moderate salinity and suitable for rice cultivation.

(5) Mapping Unit [IV] Tidal Saline Clayey Soils

Situated in the medium ground of the project area, they are over moistened for the most part of the year. The texture of the soil is silty clay at the top horizon and with more clay content in the subsoil. They may contain some water soluble salts in the lower part of the profile. Ground water here is very near to the surface and greatly influences the soil formation. At present they are covered by *Ceriops decandra*, *Heritiera fomes*, *Avicennia marina*, *Aegialitisa rotundifolia*. The whole profile has been strongly gleyed, but simultaneously the soils are characterized by a big accumulation of humus and nourishing substances. They have moderate salinity and pH ranges between 5.5 and 6.0. They have moderate fertility, good water holding capacity and therefore suitable for rice cultivation.

(6) Mapping Unit [V] Saline Swampy Soils

The saline swampy soils are located in the lower ground level of the project area and are covered with *Rhizophora apiculata*, *Bruguiera gymnorrhiza* and *Nipa fruticans*. The texture is heavy and being clayey through out the profile. The area is inundated with seawater during the high tide. This is the true salty swamp, which can be amended with some heavy measures including embankments. But their measures are rather expensive and can be done only in future. The soils have moderate salinity, pH ranges between 5.6 and 6.0. At present, the area of these soils can be used only as forest land of low productivity.

4.5.3 Soil Samples

(1) Nyaung Ta Pin Village Area

The distribution of soils in Nyaung Ta Pin target village area are as shown in Attachment 3: Soil Map of Natural Condition Survey Area (Tha Yar Kone and Nyaung Ta Pin). The following table summarized the soil sample collected in the survey area.

Soil Samples in Nyaung Ta Pin Village Area

Site Location	Mapping Unit	Soil Sample #
Sub Group No.1	III	7, 9, 10, 11, 12, 13, 14
	IV	4, 5, 6
	V	8
Sub Group No.2	III	15, 16, 17, 18, 19
	V	20, 21
Sub Group No.3	II	65, 66, 90
	III	59, 60, 68, 91, 103
	IV	47, 58, 63, 64, 69
	V	67, 104
Sub Group No.4	I	45
	II	57, 93, 96
	III	46, 61, 70, 97
	IV	71, 92, 93, 94, 98
Sub Group No.5	I	22, 23, 26, 27
	III	33, 34
	IV	32, 35, 39
	V	24, 25, 28, 29, 30, 31
Sub Group No.6	I	42, 44, 51, 62
	II	99
	III	48, 49, 52, 100, 101, 102
	IV	36, 37, 38, 40, 41, 43, 50, 53
Sub Group No.7	III	105, 106, 108, 110
	IV	107, 109
Sub Group No.8/9	I	82, 86
	V	54, 56, 76, 77, 79, 80, 81, 84, 85, 88, 89
Coconut Plantation		3 samples

(2) Thar Yar Kone Village Area

The distribution of soils in Thar Yar Kone Target village area are as shown Attachment 3: Soil Map of Natural Condition Survey Area (Tha Yar Kone and Nyaung Ta Pin). The following table summarized the soil sample collected in the survey area.

Soil Samples in Nyaung Ta Pin Village Area

Site Location	Mapping Unit	Soil Sample #
Nursery (TYK)	II	1.
	IV	2, 3
Sub Group No.1	III	157
Sub Group No.2	IV	164
Sub Group No.3	IV	163
Sub Group No.4	IV	155.
Sub Group No.5	V	154
Sub Group No 6	II	114, 115, 116, 118, 119
	III	113, 117, 123, 125, 126, 127, 128, 129, 130, 131, 132, 133, 135, 136, 137, 140, 143, 144, 145, 146.
	IV	111, 112, 120, 121, 122, 134, 138, 139, 141, 142
	V	124
New Group	II	150, 159.
	III	147, 148, 149, 158
	IV	151, 152, 153, 160
	V	161, 162

(3) Soil Analysis

Descriptions of the individual soil profiles and results of field test for soil samples are presented in Attachment-5: Field Soil Survey Data Sheet.

This soil test summary report is prepared based on physical and chemical analysis of 167 soil samples and climatic condition of Pyinalan Reserve, Laputta Township, Myanmar, where the soil samples were taken. The soil samples were analyzed in the soil laboratory for Soil texture, pH, Electrical Conductivity (ECe), Soil salinity (TDS %), Organic matter (Humus %), Total NPK %, Base Saturation percentage, Cation exchange Capacity (CEC me/100g), Available P (ppm) and Available K₂O (mg/100g) and Exchangeable K (me/100g). The results of lab analysis of soil samples are presented in Attachment-6: Lab Analysis Data Sheet.

4.6 Comments / Recommendation

4.6.1 Inundation Survey

Generally in both village areas considered for pilot project, the tide appears as a twice-daily, roughly sinusoidal rise and fall of the water level and thus resulting in the two high tides and two low tides in a day. According to the daily observations of the phenomenon of tidal behavior for a whole month by the local people such daily tides within a month are classified into three distinct types namely the spring tide, the neap tide and the normal tide. The spring tides always occur on the first 3-5 waxing days and the first 3-5 waning days of the moon. As mentioned, the frequency of the spring tide varies by different seasons; 3 days in the hot season, 4 days in the cold season and 5 days in the

rainy season. The ranges of the rise and fall of the water level during spring tides are about 2m in the hot season and about 0.7m in the rainy season with average level of water in the rainy season is nearly about 1m higher than that of water in the hot season.

The neap tides, during the period in a month when water level fluctuation in a day is relatively small, normally occur somewhere around on the tenth day of both waxing and waning of the moon and they last for 2-3 days only. During the neap tides, the water level rises and falls in the range of about 0.5m to 1m depending on the season. For the remaining days in a month the areas experience normal tides for which the range of low and high tides falls between those of spring and neap tides.

Apart from the type of tides classified, according to the seasonal observations on the different levels of high tides in a day by the local people, noon time high tide causes more inundation than mid-night high tide in the rainy season while vice-versa in the hot season. In the cold season, however, the level of water at noontime high tide and that of the same at mid-night time high tide are comparable.

In general, regardless of the land form by its ground level, the whole pilot project areas surveyed are always inundated by spring high tides in the rainy season. During the cold season, both the lower ground areas and the medium ground areas are inundated by the spring high tides while only the lower ground areas are inundated by the spring high tides in hot season.

Although the inundated water height by normal tides is lower than that of spring tides, both lower ground areas and medium ground areas are still inundated by normal high tides.

Regarding the nature of the spread of tidal water, in most areas where the land is bounded by a strip of elevated river bank like in the northern part of Nyaung Ta Pin village, the tidal inundation water usually starts to spread only from the tips (originated points) and along sides of the creeks and brooks towards the inland. Therefore in such areas for medium ground and lower ground, the extent of inundation areas caused by spring tides (twice a month) during the hot season and the cold season are not very large nor the the inundated water height very high (< 0.2m).

In the areas where the land is bounded by low river bank as in the depression project areas for Byuoaksaung Group and Madama Group in the southern part of Nyaung Ta Pin village, the tidal inundation water starts to spread over the land not only from the tips and along sides of the creeks and brooks but also by overflowing from the river banks of Nyaung Ta Pin Chaung (creek) and Sagyin Chaung (creek) resulting in a peak inundation water height of 0.5m and 1m during spring tides in the hot season and the rainy season, respectively. During the rainy season, high river discharge and seasonal inundation

cause higher water levels most of the time and this area is flooded by a water depth of about 0.5m most of the time. These, therefore, override the tidal influence in the rainy season except in a narrow band along the river banks.

The distance to which tidal fluctuations are observed in rivers depends on the river bed, the river discharge, and the tidal range and period. In periods of low discharge, the tidal influence may extend as far inland as the land is essentially level and the streams and creeks through it are at or below the elevation of high tide. Therefore MSN realized that it was impossible to locate the actual extent of the tidal inundation areas on the map by type of tides for each season without the provision of the micro-topographical map and complete data on intensive measurements of inundation at certain ground check points in the selected areas for a whole year.

To improve the accuracy of the inundation frequency map produced by MSN, it is essential to establish several selected stations in the pilot project areas to take six-hourly measurements of tidal inundation water height for both daily high and low tides a whole year round. At the same time, a time consuming micro-topography survey should be employed to get the micro-relief map on which the station points be imposed and iso-inundation lines can be determined and drawn.

4.6.2 Soil Survey

1. Five Mapping Units have been identified in the project area as a result from this soil survey in Nyaung Ta Pin and Thar Yar Kone target village areas for Natural Condition Survey.
2. Soil conditions were examined and described for 167 sites and tested for texture, pH and Salinity using Refractometer instead of EC meter in the field. The samples were sent to the laboratory for complete analysis. Except for the soil of Sandy Alluvium, nearly all the soils can be characterized as being of heavy texture, i.e. Clay Loam, Silty Clay Loam, Silty Clay and Clay. Sticky Clays are dominant in most of the area especially under mangrove forests. Along the slightly higher ground and larger channels, the texture becomes lighter with the increase of silt and sand fractions, which includes silty clay and Sandy Loam. The pH values are more or less uniform throughout and ranges from slightly acid to nearly neutral (pH 5.0-6.0). The pH of the higher ground with light texture is the exception, which ranges from 4.5 to 5.0.
3. The soil salinity levels are within 25-40ppt in most of the area with the exception of the sandy rises with the lower level salinity.

In terms of the land use capabilities and salinity level, nearly all the soils can be utilized for agro-forestry and reforestation, as there is another important reason for

the maintenance of the mangrove forest, which is the most appropriate and sustainable form of land use.

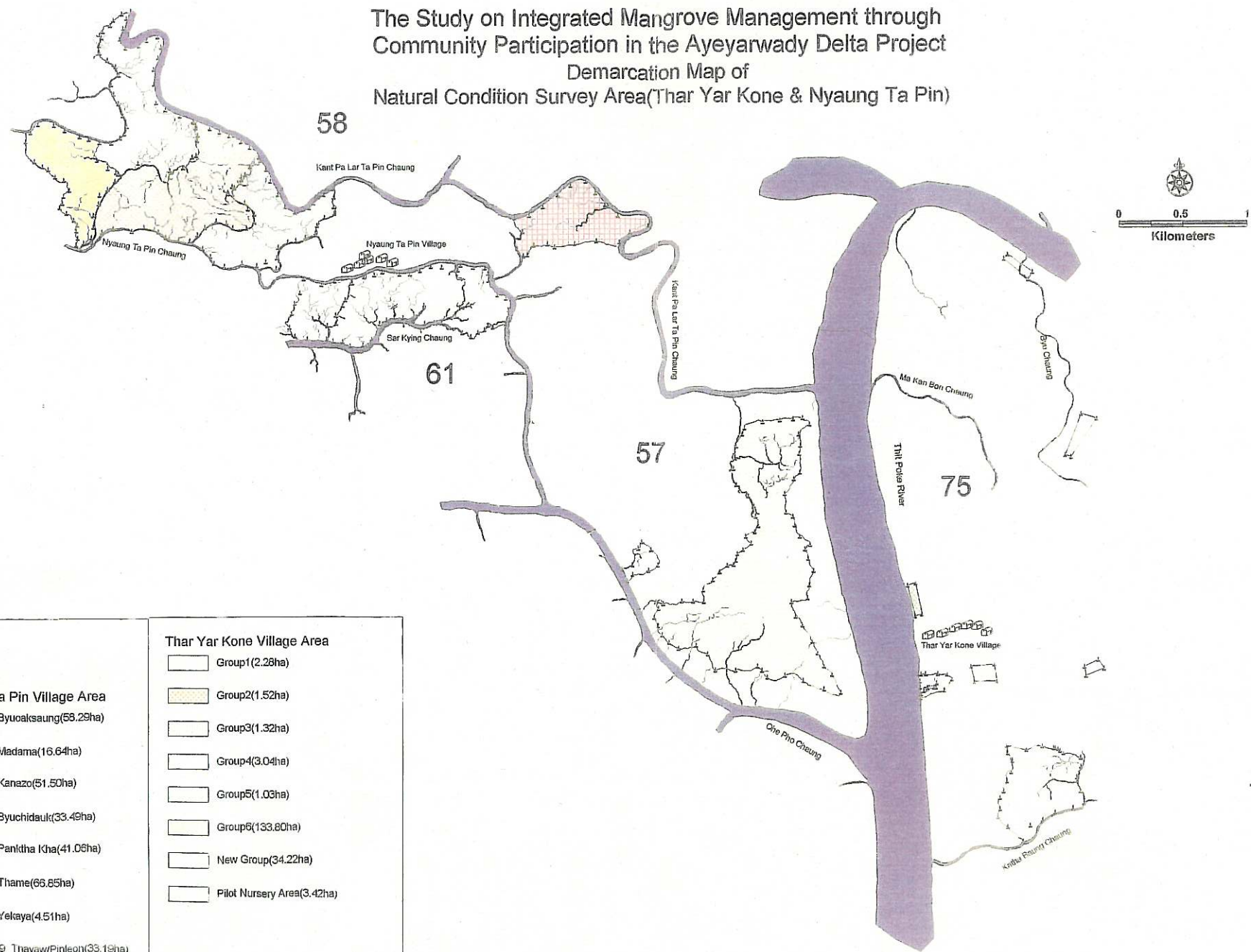
4. Based on the soil analysis, the soil types in the project area do not vary widely in their potential, because the area is homogeneous and almost flat (Slope 0-1%) and too small to classify for major land use. In terms of the land use capabilities, nearly all the soils can be utilized for agro-forestry, reforestation and maintenance of the mangrove forest.
5. The climatic condition is favourable for most tropical crops like rice in the rainy season, most upland crops like legumes, sesamum and sunflower as post-monsoon crops after rainy season with residual moisture left in the soil. If rainfed option alone is considered, the choice of crops mainly depends on the physico-chemical properties of the soil.
6. The fertility of soil has been determined based on Organic matter %, which play an important part in the tilth and fertility of soil and also on CEC of a soil which is one of the most important chemical properties and influences directly or indirectly many other chemical characteristics. It is also based on the contents of available nutrients and the soils are classified into Fertile, Moderately Fertile and Lower Fertile. Thus, 70 soil samples are classified as fertile, 85 samples as moderately fertile and 12 samples as lower fertile soils because of low clay, low organic matter and low contents of available nutrients. They are sample No. 26, 55, 74, 75, 165, having textural class of Sandy Clay Loam and sample No. 22, 27, 82, 86, 156, 166 and 167 with textural class of sandy loam.
7. As the choice for crops depends also on soil pH, the chemical analysis shows that only 7 soil samples (No. 5, 17, 18, 21, 139, 140, 141) went below critical pH of 5.5 (i.e. 4.2 - 4.9). No acid sulphate soil samples were observed in the analysis for this mangrove area studied. The salinity level seems to be higher in most of the soils, however, it has been found that it does not pose serious problem on the growth of plants in the studied area.
8. For plantation and agro-forestry, the soils around Nyaung Ta Pin and Thar Yar Kone villages, sample No. 165, 166 and 167 can be utilized for the growing of mango, tamarind, jackfruit, banana, guava, citrus, coconut, flowers and vegetables. However, the trees will need supplemental fresh water irrigation during summer. The availability of fresh water for post-monsoon irrigation can be possible in Thar Yar Kone village but there will be problem for Nyaung Ta Pin village and so necessary measures need to be undertaken in the near future. The soil fertility status and crop suitability are shown in each individual soil test summary report.

4.6.3 Land Use Consideration

The soil types in the project area do not vary widely in their potential, because the area is homogeneous and too small to classify for major land use. Moreover, these soils are not suitable to be transformed into arable land as the oxidation of some hidden pyrites in the subsoil can reduce the soil pH far below any crop can tolerate. Only for local food security purpose, some considerably large flat plains in the higher ground level with minimum saline water inundation can be transformed into rice field provided that the texture is heavy enough for rice plant.

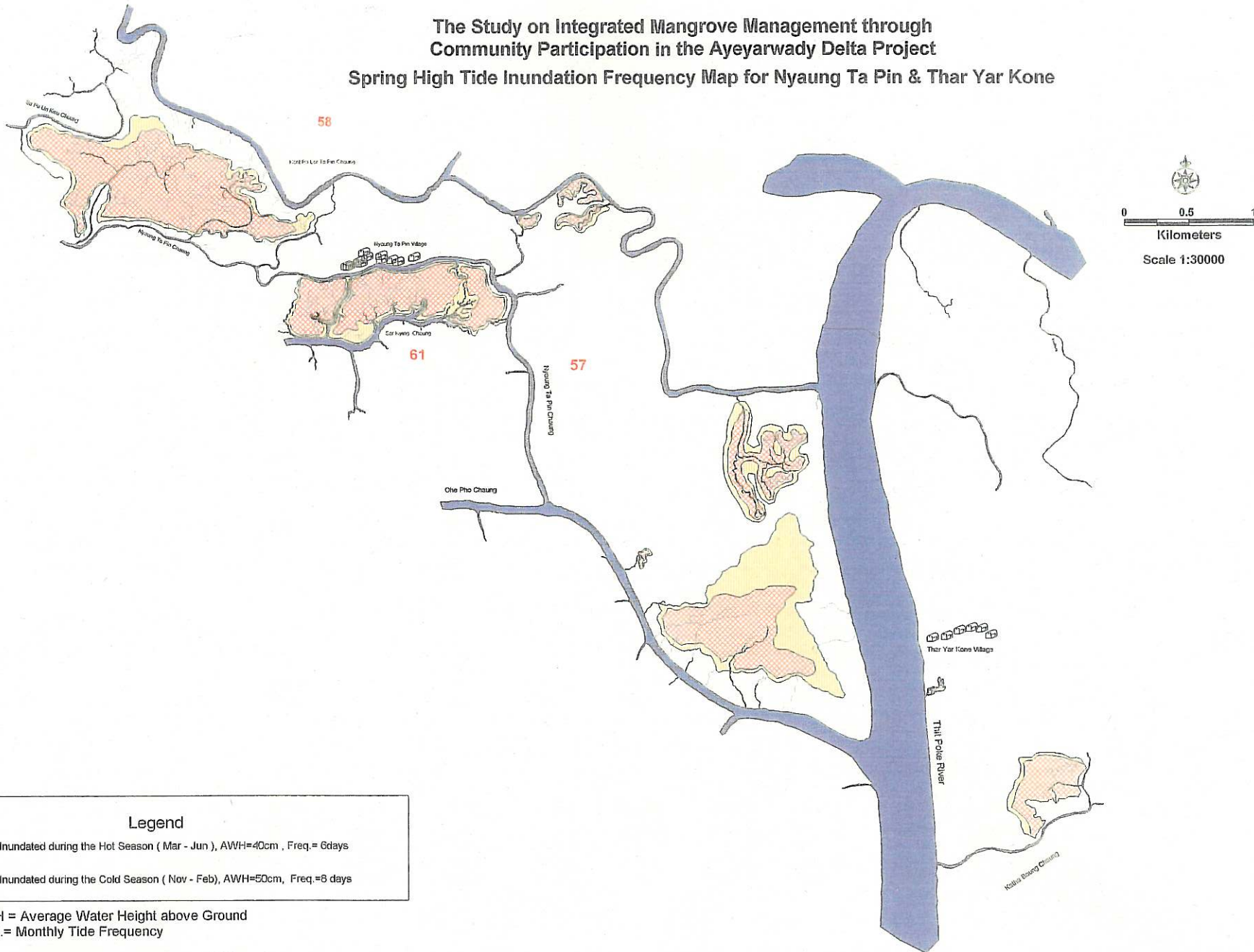
Attachment

The Study on Integrated Mangrove Management through
Community Participation in the Ayeyarwady Delta Project
Demarcation Map of
Natural Condition Survey Area(Thar Yar Kone & Nyaung Ta Pin)



Legend	
▲	Staking point
Nyaung Ta Pin Village Area	
[White Box]	Group1_Byuokaung(58.29ha)
[White Box]	Group2_Madama(16.64ha)
[White Box]	Group3_Kanazo(51.50ha)
[Yellow Box]	Group4_Byuchidauk(33.49ha)
[White Box]	Group5_Panitha Kha(41.06ha)
[White Box]	Group6_Thame(66.85ha)
[White Box]	Group7_Yekaya(4.51ha)
[Hatched Box]	Group8&9_Thayaw/Pinleon(33.19ha)
Thar Yar Kone Village Area	
[White Box]	Group1(2.28ha)
[Yellow Box]	Group2(1.52ha)
[White Box]	Group3(1.32ha)
[White Box]	Group4(3.04ha)
[White Box]	Group5(1.03ha)
[White Box]	Group6(133.80ha)
[White Box]	New Group(34.22ha)
[White Box]	Pilot Nursery Area(3.42ha)

The Study on Integrated Mangrove Management through
Community Participation in the Ayeyarwady Delta Project
Spring High Tide Inundation Frequency Map for Nyaung Ta Pin & Thar Yar Kone



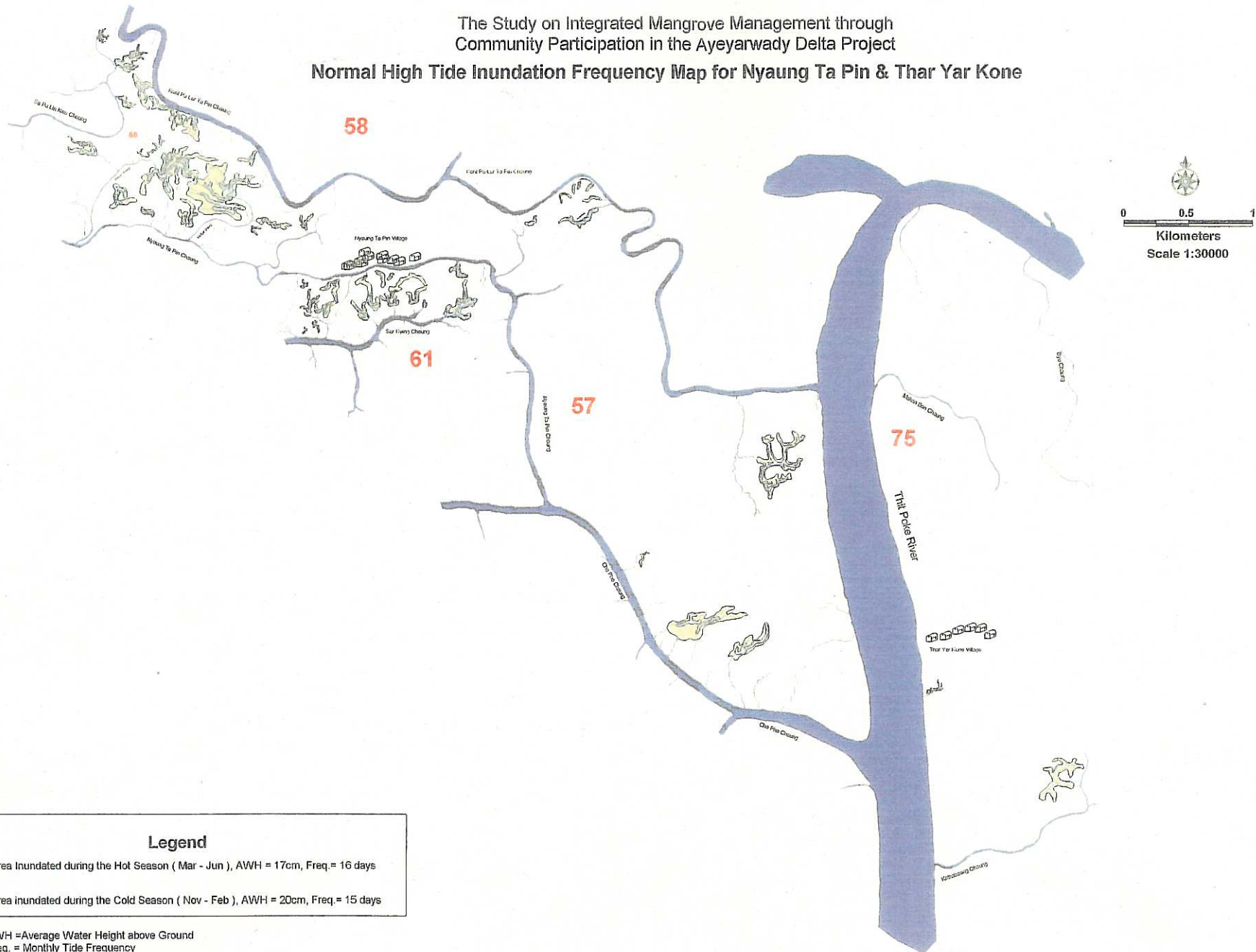
Legend

- Area Inundated during the Hot Season (Mar - Jun), AWH=40cm , Freq.= 6days
- Area Inundated during the Cold Season (Nov - Feb), AWH=50cm, Freq.=8 days

AWH = Average Water Height above Ground
Freq.= Monthly Tide Frequency

For ground level, please refer to the Soil Map.

The Study on Integrated Mangrove Management through
Community Participation in the Ayeyarwady Delta Project
Normal High Tide Inundation Frequency Map for Nyaung Ta Pin & Thar Yar Kone



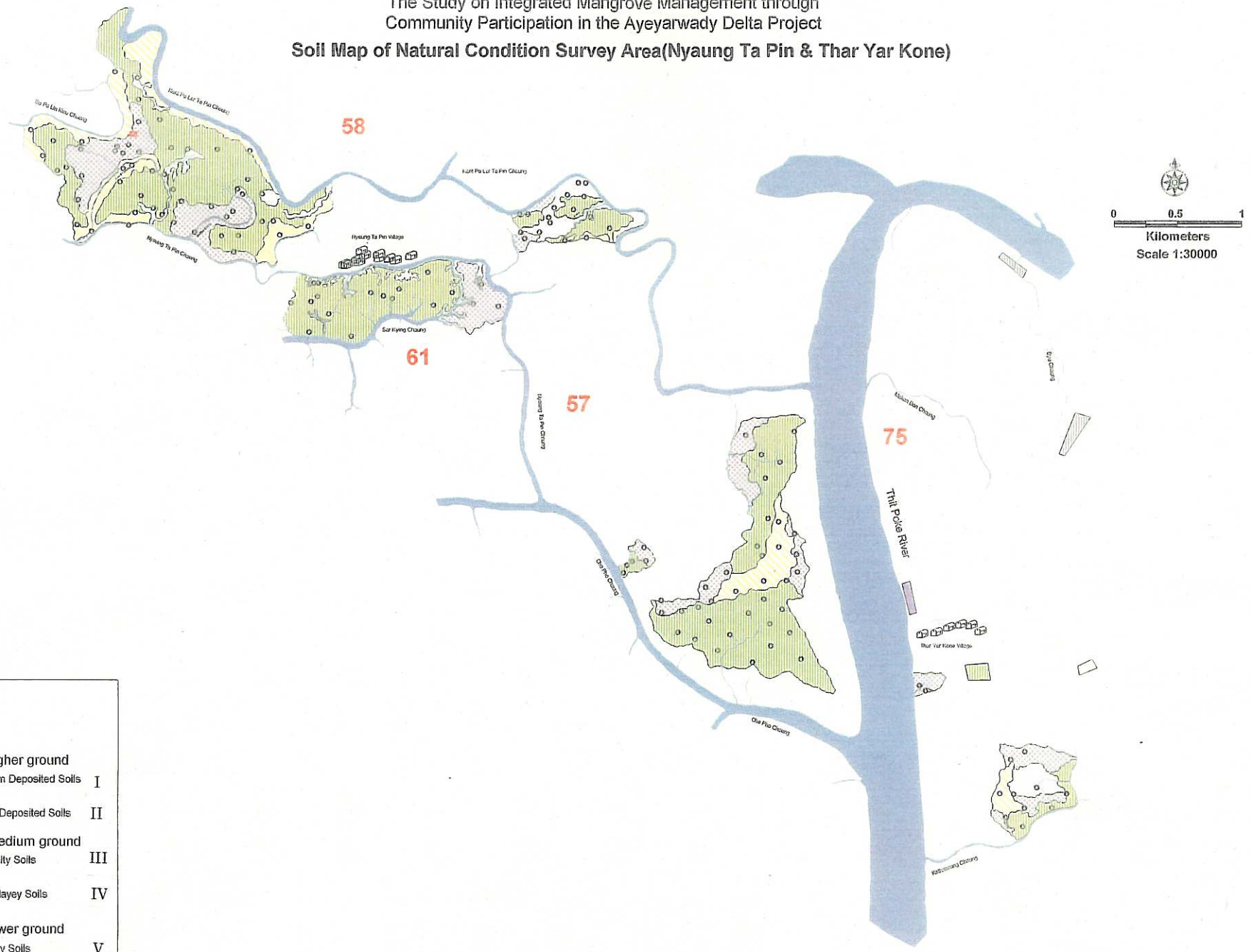
Legend

- Area Inundated during the Hot Season (Mar - Jun), AWH = 17cm, Freq. = 16 days
- Area inundated during the Cold Season (Nov - Feb), AWH = 20cm, Freq. = 15 days

AWH = Average Water Height above Ground
Freq. = Monthly Tide Frequency

For ground level, please refer to the Soil Map.

The Study on Integrated Mangrove Management through
Community Participation in the Ayeyarwady Delta Project
Soil Map of Natural Condition Survey Area(Nyaung Ta Pin & Thar Yar Kone)



Legend

- Soil Profile Site

Soils of the higher ground

- Sandy Alluvium Deposited Soils I
- Silty Alluvium Deposited Soils II

Soils of the medium ground

- Tidal Saline Silty Soils III
- Tidal Saline Clayey Soils IV

Soils of the lower ground

- Saline Swampy Soils V

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic					pH	Soil Class			
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description					Texture	Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
1	49.00	5.40	59.00	10.20	TYK	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	137	40								II
										A	0-20	Grayish olive (2Y 4/2)	dry	-	subangular blocky, weakly hard, thin porous, few fine and medium roots	5.6	
										B	20-50	Grayish olive (2.5Y 5/3)	fresh	SIL	Silty clay Loam, very weak subangular blocky	5.7	
										Bwg	50 - 103	Olive brown (2.5Y 5/3)	wet	SIL	massive	4.5	
				C	103~	Dark grayish (2.5Y 3/3)	wet	-	massive	5.8							
2	49.00	6.70	59.00	8.60	TYK	medium	<i>Excoecaria agallocha</i> <i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Aeroticum aureum</i> <i>Derris scandens</i> <i>Sarcobolus carinatus</i>	155	38								IV
										A	0-10	Olive (5Y 5/4)	-	SIL	subangular blocky, weakly hard, thin porous, clear and smooth boundary	5.8	
										AB	10-20	Grayish olive (5Y 5/3)	moist	SIL	massive, few small and medium roots	5.9	
										B	20-44	Dark olive (5Y 4/3)	more moist	SiCL	massive, few medium roots	4.2	
				Bg	44~	Olive black (5Y 3/2)	more moist	SiCL	massive	4.1							
3	49.00	4.00	59.00	13.30	NTPG1	medium	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Aegiceras corniculatum</i> <i>Dalbergia spinosa</i> <i>Acrostichum aureum</i>	124	37		IV						IV
										A	0-20	Dark grayish (2.5Y 4/2)	fresh	SIC	weak subangular blocky, thin porous	5.5	
										B	20-50	Olive brown (2.5Y 4/3)	moist	C	massive	5.5	
										Bwg	50-100	Dark grayish (2.5Y 4/2)	more moist	C	massive	5.2	
4	50.00	42.90	57.00	15.70	NTPG1	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Merope angulata</i> <i>Phoenix paludosa</i>	30 below surface	27							IV	
										A	0-10	Grayish olive (5Y 5/3)	weakly hard	SiCL	massive, 50 % reddish brown mottles		5.2
5	50.00	48.50	57.00	11.10	NTPG1	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Aegiceras corniculatum</i> <i>Merope angulata</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Finlaysonia maritime</i>	38	27							IV	
										A	0-20	Grayish olive (5Y 5/2)	moist	SiCL	subangular blocky, thin porous, many fine roots		5.6
6	50.00	43.50	57.00	9.00	NTPG1	low	<i>Cerriops decandra</i> <i>Xylocarpus granatum</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	Below 15	26							IV	
										A	0-10	Olive black (5Y 3/2)	moist	SIC	massive, many fine roots		5.8
7	50.00	46.40	57.00	3.30	NTPG1	low	<i>Cerriops decandra</i> <i>Rhizophora apiculata</i> <i>Xylocarpus granatum</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	Below 15	26							III	
										A	0-10	Grayish olive (5Y 6/2)	fresh	SIC	subangular blocky structure		6.0
8	50.00	43.20	56.00	58.40	NTPG1	low	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Derris scandens</i>	Below 20	25							V	
										A	0-10	Olive black (5Y 2/2)	moist	SIC	subangular blocky		6.0
9	50.00	51.60	56.00	56.80	NTPG1	low	<i>Cerriops decandra</i> <i>Rhizophora apiculata</i> <i>Heritiera fomes</i> <i>Derris scandens</i>	Below 15	25							III	
										A	0-10	Brown (7.5YR 4/4)	moist	SiCL	subangular blocky		6.0
10	50.00	47.30	56.00	49.20	NTPG1	low	<i>Cerriops decandra</i> <i>Rhizophora apiculata</i> <i>Aegiceras corniculatum</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	Below 15	25							III	
										A	0-10	Olive Brown (2.5Y 4/4)	moist	SiCL	massive, many small and medium roots		5.8
11	50.00	44.80	56.00	47.40	NTPG1	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i>	Below 6	25							III	
										A	0-10	Olive (5Y 5/4)	moist	SiCL	massive, many small and medium roots		5.5
12	50.00	45.50	56.00	45.00	NTPG1	low	<i>Rhizophora apiculata</i> <i>Cerriops decandra</i> <i>Bruguiera gymnorhiza</i>	6	25							III	

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic				pH	Soil Class				
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description				Physical (structure, consistency, thickness, arangement)			
	Min	Sec	Min	Sec						Horizon	Profile (cm)				Color	Moisture	Texture
							<i>Xylocarpus granatum</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>			A	0-10	Grayish Yellow Brown (10YR 4/2)	soggy	SiCL	many small and medium roots	6.0	
13	50.00	46.30	56.00	41.70	NTPG1	low	<i>Cenriops decandra</i> <i>Bruguiera gymnorhiza</i> <i>Derris scandens</i>	Below 4	26	A	0-10	Dull Yellowish Brown (10YR 4/3)	soggy	SIC		5.5	III
14	50.00	35.20	56.00	36.50	NTPG1	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Cenriops decandra</i>	8	35	A	0-12	Dull Reddish Brown (7.5YR 4/4)	very wet	SIC	massive, many fine and medium roots	5.8	III
15	50.00	36.20	56.00	25.30	NTPG2	low	<i>Cenriops decandra</i> <i>Bruguiera gymnorhiza</i> <i>Derris scandens</i>	Below 16	34	A	0-12	Light gray (10YR 7/1)	wet	SiCL	many small roots, thin porous	5.3	III
16	50.00	40.90	56.00	30.50	NTPG2	medium	<i>Rhizophora apiculata</i> <i>Xylocarpus granatum</i> <i>Nypa fruticans</i> <i>Derris scandens</i>	5 below surface	32	A	0-12	Brown (7.5YR 4/3)	moist	SIC	massive, fine and medium roots	6.2	III
17	50.00	45.30	56.00	27.50	NTPG2	low	<i>Rhizophora apiculata</i> <i>Xylocarpus granatum</i> <i>Bruguiera gymnorhiza</i> <i>Derris scandens</i>	At ground surface	34	A	0-10	Grayish yellow brown (10YR 4/2)	wet	SIC	few fine and medium roots massive structure	6.2	III
18	50.00	44.00	56.00	25.80	NTPG2	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Cenriops decandra</i> <i>Derris scandens</i>	At surface	35	A	0-10	Grayish brown (7.5YR 4/2)	wet	C	slightly sticky, massive structure, many fine and medium roots	5.8	III
19	50.00	43.70	56.00	20.50	NTPG2	low	<i>Cenriops decandra</i> <i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Derris scandens</i>	29	32	A	0-12	Brown (7.5YR 4/3)	wet	SiCL	massive, many fine and medium roots	5.8	III
20	50.00	48.80	56.00	26.60	NTPG2	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Cenriops decandra</i> <i>Derris scandens</i>	At surface	34	A	0-10	Gray (5Y 5/1)	wet	SiCL	massive structure, many fine and medium roots	5.2	V
21	50.00	48.80	56.00	27.70	NTPG2	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Nypa fruticans</i>	Nearly surface	33	A	0-10	Gray (10YR 5/1)	fresh	SIC	weakly subangular blocky	5.8	V
22	51.00	12.00	56.00	19.00	NTPG5	medium	<i>Excoecaria agallocha</i> <i>Cenriops decandra</i> <i>Heritiera fomes</i> <i>Cynometra ramiflora</i> <i>Premna obtusifolia</i>	50	32	A	0-10	Gray (10Y 5/1)	moist	SL	weak medium subangular blocky, many fine and medium roots	4.8	I
23	51.00	4.40	56.00	12.70	NTPG5	low	<i>Cenriops decandra</i> <i>Aegiceras corniculatum</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	50	33	A	0-10	Grayish yellow brown (10YR 5/2)	-	SL	many thin roots	5.6	I
24	51.00	11.40	56.00	12.70	NTPG5	low	<i>Cenriops decandra</i> <i>Aegiceras corniculatum</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i>	4	31	A	0-10	Brownish gray (10YR 5/1)	wet	SIC	massive, 7% reddish mottles	5.4	V
25	51.00	4.50	56.00	15.70	NTPG5	low	<i>Cenriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	26	32	A	0-12	Dull yellowish brown (10YR 5/3)	fresh	SIC	subangular blocky structure, slightly hard, few fine and medium roots	5.5	V
26	51.00	1.00	56.00	17.40	NTPG5	medium	<i>Heritiera fomes</i> <i>Excoecaria agallocha</i> <i>Clerodendrum inerme</i> <i>Merope angulata</i> <i>Derris scandens</i> <i>Flagellaria indica</i>	50	32	A	0-10	Yellowish brown (2.5Y 5/3)	fresh	SL	friable, few fine and medium roots	4.8	I
27	51.00	3.18	56.00	24.94	NTPG5	medium	<i>Cenriops decandra</i> <i>Excoecaria agallocha</i> <i>Heritiera fomes</i>	80	32								I

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic					pH	Soil Class			
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description					Texture	Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
							<i>Phoenix paludosa</i>			A	0-12	Grayish olive (5Y 5/2)	fresh	SIL	weak subangular blocky structure slightly sticky, thin porous	6.0	
28	51.00	7.80	56.00	36.00	NTPG5	low	<i>Cerriops decandra</i> <i>Bruguiera gymnorhiza</i> <i>Heritiera fomes</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Groundwater at 2 below surface	32								V
										A	0-11	Dull brown (7.5YR 5/3)	-	C	massive, slightly sticky, many fine roots	5.8	
29	51.00	12.60	56.00	34.01	NTPG5	low	<i>Bruguiera gymnorhiza</i> <i>Aegialitisa rotundifolia</i> <i>Cerriops decandra</i> <i>Rhizophora apiculata</i> <i>Derris scandens</i>	Below 4	32								V
										A	0-10	Grayish yellow brown (10YR 5/2)	-	SIC	massive structure, few fine and medium roots	6.0	
30	51.00	10.26	56.00	31.32	NTPG5	low	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Bruguiera gymnorhiza</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	At surface	32								V
										A	0-10	Grayish olive (5Y 5/2)	-	C	sticky	5.6	
31	51.00	8.86	56.00	39.10	NTPG5	low	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Merope angulata</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Below 4	33								V
										A	0-10	Dark grayish (2.5Y 4/2)	wet	SIC	massive structure	6.0	
32	50.00	56.64	56.00	5.22	NTPG5	low	<i>Excoecaria agallocha</i> <i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	Below 2 (swampy)	34								IV
										A	0-10	Dark grayish (2.5Y 4/2)	wet	SIC	massive, many fine roots	5.8	
33	51.00	0.78	56.00	6.42	NTPG5	low	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	2 (Nearly surface)	35								III
										A	0-10	Dull yellowish brown (10YR 4/3)	wet	SIC	massive, many small roots	5.8	
34	51.00	0.72	56.00	1.98	NTPG5	low	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	Below 15	33								III
										A	0-10	Olive brown (2.5Y 4/3)	-	SiCL	weak subangular blocky structure, many fine roots	5.8	
35	51.00	1.62	55.00	54.78	NTPG5	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i>	Unknown	33								IV
										A	0-10	Dark grayish yellow (2.5Y 4/2)	-	C	slightly hard, subangular blocky structure, few small and medium roots	5.6	
36	51.00	5.58	56.00	3.30	NTPG6	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Below 75	32								IV
										A	0-10	Dark grayish (2.5Y 5/2)	dry	C	subangular blocky, 2cm cracks found on surface, slightly hard	4.5	
37	51.00	6.96	56.00	4.98	NTPG6	low	<i>Cerriops decandra</i> <i>Aegiceras corniculatum</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	25	33								IV
										A	0-10	Dark grayish (2.5Y 5/2)	-	C	very week subangular blocky, few fine and medium roots, cracks on surface 1-2cm wide	5.4	
38	51.00	12.68	56.00	6.12	NTPG6	low	<i>Aegialitisa rotundifolia</i> <i>Aegiceras corniculatum</i> <i>Dalbergia spinosa</i> <i>Finlaysonia maritima</i>	Below 4	38								IV
										A	0-10	Grayish yellow brown (10YR 5/2)	-	C	massive structure, maximum water rises up to one and half feet in raining season and in summer season, tidal water reaches only at the area near the creeks.	5.0	
39	51.00	11.34	56.00	7.50	NTPG5	medium	<i>Heritiera fomes</i> <i>Aegicera corniculatum</i> <i>Cerriops decandra</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	2 (near at surface)	35								IV
										A	0-10	Olive brown (2.5Y 4/3)	wet	SIC	massive, 1cm crack	5.8	
40	51.00	12.58	55.00	49.14	NTPG6	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Aegialitisa rotundifolia</i> <i>Aegiceras corniculatum</i> <i>Phoenix paludosa</i>	6	34								IV
										A	0-10	Olive brown (2.5Y 4/6)	-	C	weak subangular blocky, few fine and medium roots	4.5	
41	51.00	4.14	55.00	49.26	NTPG6	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Aegiceras corniculatum</i>	25	32								IV

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No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic					pH	Soil Class			
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description					Texture	Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
							<i>Excoecaria agallocha</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Acrotichum aureum</i>			A	0-10	Olive brown (2.5Y 4/6)	wet	SiC	weak subangular blocky, 1cm cracks on surface, many fine and medium roots	6.0	
42	51.00	6.60	55.00	39.12	NTPG6	medium	<i>Excoecaria agallocha</i> <i>Agiceras corniculatum</i> <i>Cenriops decandra</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	85	32	A	0-10	Grayish yellow brown (10YR 5/2)	slightly hard	SiCL	subangular blocky structure, few fine porous	6.0	V
										B	30-50	Dark olive (5Y 4/3)	moist	SiC	subangular blocky structure	5.8	
43	51.00	7.80	55.00	43.94	NTPG6	medium	<i>Excoecaria agallocha</i> <i>Aegiceras corniculatum</i> <i>Cenriops decandra</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	90	36	A	0-10	Dark grayish (2.5Y 5/2)	fresh	CL	slightly hard, 2cm crack on surface	5.4	IV
44	51.00	1.86	55.00	27.70	NTPG6	high	<i>Cenriops decandra</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Acrostichum aureum</i>	Below 1 meter	37	A	0-10	Dark grayish (2.5Y 5/2)	fresh	SiCL	slightly hard, subangular blocky structure, 1cm crack, many medium roots	6.6	I
45	51.00	3.48	55.00	23.82	NTPG4	medium	<i>Cenriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	Below 23	38	A	0-10	Dark grayish (2.5Y 4/2)	fresh	CL	subangular blocky, slightly hard, few very fine and medium roots	5.5	I
										B	30-50	Dark grayish (2.5Y 5/2)	moist	C	massive structure	5.6	
46	51.00	9.92	55.00	24.12	NTPG4	low	<i>Heritiera fomes</i> <i>Cenriops decandra</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Below 4 depth	37	A	0-10	Grayish olive (5Y 5/2)	wet	CL	massive, few medium roots	5.6	III
47	51.00	21.84	55.00	35.88	NTPG3	high	<i>Cenriops decandra</i> <i>Phoenix paludosa</i> (Remark - Slashed and burnt)	28	36	A	0-10	Dark grayish (2.5Y 5/2)	dry	C	subangular blocky structure, slightly hard	5.0	IV
										B	30-50	Grayish olive (7.5Y 4/2)	fresh	C	slightly hard	5.0	
48	51.00	14.52	55.00	35.10	NTPG6	medium	<i>Aegiceras corniculatum</i> <i>Cenriops decandra</i> <i>Phoenix paludosa</i>	25	38	A	0-10	Olive yellow (7.5Y 6/3) reddish brown (7.5Y 6/3)	fresh	SIL	weak subangular blocky, many fine and medium roots, 7% reddish mottles,	6.0	III
49	51.00	16.34	55.00	46.80	NTPG6	medium	<i>Heritiera fomes</i> <i>Bruguiera gymnorrhiza</i> <i>Cenriops decandra</i> <i>Derris scandens</i> <i>Finlaysonia maritime</i>	Below 23	30	A	0-10	Gray (7.5Y 5/1)	moist	SiCL	10% reddish mottles, thin porous, weak subangular blocky, more sticky	5.8	III
50	51.00	9.48	55.00	51.36	NTPG6	medium	<i>Cenriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	23	30	A	0-10	Yellowish gray (2.5Y 5/1)	fresh	SiCL	reddish brown mottles 10%, subangular blocky structure, thin porous, many fine roots	5.4	IV
51	51.00	18.72	55.00	38.28	NTPG6	high	<i>Cynometra ramiflora</i> <i>Phoenix paludosa</i> <i>Flagellaria indica</i> <i>Acrostichum aureum</i>	30	38	A	0-10	Grayish olive (5Y 5/3)	dry	SiCL	slightly hard, subangular blocky structure, few fine roots	6.2	I
52	51.00	17.22	55.00	43.64	NTPG6	medium	<i>Cenriops decandra</i> <i>Phoenix paludosa</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	20	35	A	0-10	Gray (5Y 4/1)	moist	SiCL	subangular blocky structure, slightly hard, slightly sticky, many fine roots	4.5	III
53	51.00	6.12	55.00	46.20	NTPG6	high	<i>Phoenix paludosa</i> <i>Pluchea indica</i> (Remark: Slashed and burnt)	Below 45	40	A	0-10	Grayish olive (7.5Y 5/2)	fresh	SiC	2% reddish mottles, subangular blocky, few thin roots, thin porous	4.6	IV
										B	30-50	Olive brown (2.5Y 4/3)	wet	SiCL	weakly hard, 1% reddish mottle	5.6	
54	51.00	0.12	57.00	22.26	NTPG8/9	low	<i>Cenriops decandra</i> <i>Heritiera fomes</i> <i>Bruguiera gymnorrhiza</i>	2	28								V

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic				pH	Soil Class				
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description				Physical (structure, consistency, thickness, arangement)			
	Min	Sec	Min	Sec						Horizon	Profile (cm)				Color	Moisture	Texture
							<i>Dalbergia spinosa</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>			A	0-10	Grayish yellow (2.5Y 6/2)	moist	SiCL	thin porous, many thin roots	5.8	
55	51.00	6.42	57.00	23.46	NTPG8/9	medium	<i>Cerriops decandra</i> <i>Merope angulata</i> <i>Dalbergia spinosa</i> <i>Phoenix paludosa</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	9	36								III
										A	0-10	Dark grayish (2.5Y 5/2)	soggy	SL	massive, many thin porous, many fine roots	5.8	
56	51.00	5.58	57.00	29.06	NTPG8/9	low	<i>Rhizophora apiculata</i> <i>Cerriops decandra</i> <i>Hertiera fomes</i> <i>Bruguiera gymnorhiza</i> <i>Dalbergia spinosa</i> <i>Hibisus tiliaceus</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Below 4	35								V
										A	0-10	Olive brown (2.5Y 4/4)	wet	SIL	massive, many fine roots	5.6	
57	51.00	22.80	55.00	24.74	NTPG4	high	<i>Phoenix paludosa</i> <i>Pluchea indica</i> <i>Acrostichum aureum</i> <i>Derris scandens</i> (Slashed and burnt for construction of dyke)	Below 95	28								II
										A	0-10	Grayish olive (7.5Y 5/3)	dry	SIL	slightly hard, subangular blocky, 1cm crack	5.4	
										B	30-50	Olive gray (5Y 4/2)	fresh	SiCL	weak subangular blocky structure	5.2	
58	51.00	24.00	55.00	37.32	NTPG3	medium	<i>Phoenix paludosa</i> <i>Hibisus tiliaceus</i> <i>Pluchea indica</i> <i>Derris scandens</i>	76	37								IV
										A	0-10	Grayish olive (5Y 5/2)	dry	SiCL	subangular blocky, many small and medium roots, thin porous, 1% reddish mottles	6.0	
59	51.00	23.22	55.00	48.52	NTPG3	medium	<i>Cynometra ramiflora</i> <i>Phoenix paludosa</i> <i>Flagellaria indica</i> <i>Derris scandens</i>	Below 60	28								III
										A	0-10	Grayish olive (5Y 5/3)	fresh	SiCL	subangular blocky, slightly hard, many fine roots, 1% reddish mottle	5.6	
60	51.00	28.12	55.00	94.48	NTPG3	medium	<i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Merope angulata</i> <i>Pluchea indica</i> <i>Flagellaria indica</i> <i>Derris scandens</i> (some parts are slashed and burnt for construction of dykes for shrimp pan)	Below 60	28								III
										A	0-10	Grayish olive (7.5Y 4/2)	-	SiCL	weakly hard, 1cm creak, subangular blocky	5.8	
										B	30-50	Gray (7.5Y 6/1)	wet	SIC	weak subangular blocky	5.0	
61	51.00	18.12	55.00	21.04	NTPG4	high	<i>Hertiera fomes</i> <i>Excoecaria agallocha</i> <i>Flagellaria indica</i> <i>Derris scandens</i> <i>Merope angulata</i> <i>Pluchea India</i> <i>Dalbergia spinosa</i>	Below 95	28								III
										A	0-10	Dark grayish (2.5Y 4/2)	hard	SCL	granular crumbly, 1cm crack many porous, many tiny roots	5.8	
62	51.00	17.94	55.00	35.96	NTPG6	medium	<i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> (Remark: Slashed and burnt)	65	27								I
										A	0-10	Yellowish gray (2.5Y 4/1)	fresh	SiCL	slightly hard, 2cm crack subangular blocky, 5-7% reddish mottles	5.2	
63	51.00	29.34	55.00	41.08	NTPG3	medium	<i>Cerriops decandra</i> <i>Hertiera fomes</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	63	30								IV
										A	0-10	Gray (5Y 4/1)	fresh	SIC	slightly hard, subangular blocky, thin porous 25% reddish mottles	6.0	
64	51.00	29.94	55.00	39.92	NTPG3	high	<i>Cerriops decandra</i> <i>Hertiera fomes</i> <i>Aegiceras comiculatum</i> <i>Cynometra ramiflora</i> <i>Phoenix paludosa</i> <i>Hibisus tiliaceus</i>	94	30								IV
										A	0-10	Gray (5Y 5/1)	-	SiCL	50% reddish mottles, subangular blocky, slightly hard, many small roots	5.2	
										B	30-50	Dark grayish (2.5Y 5/2)	more moist	CL	massive	6.2	
65	51.00	40.98	55.00	39.52	NTPG3	high	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Hertiera fomes</i>	94	28								II
										A	0-10	Grayish olive (5Y 5/3)	dry	SiCL	5% reddish mottles, 2cm creak, many medium roots, medium holes, subangular blocky	6.8	

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic					pH	Soil Class			
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description					Texture	Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
							<i>Phoenix paludosa</i> <i>Dalbergia spinosa</i>			B	30-50	Olive black (7.5Y 3/2)	more moist in subsoil	CL		6.0	
66	51.00	42.54	55.00	33.64	NTPG3	medium	<i>Ceriops decandra</i> <i>Phoenix paludosa</i> <i>Clerodendrum inerme</i> <i>Dalbergia spinosa</i> <i>Acrostichum aureum</i>	Below 45	25								II
										A	0-10	Dark grayish (2.5Y 5/2)	moist	CL	subangular blocky, 1cm crack few medium roots	5.0	
										B	30-50	Dark grayish (2.5Y 5/2)	more moist	CL	subangular blocky	4.0	
67	51.00	35.62	55.00	39.80	NTPG3	low	<i>Excoecaria agallocha</i> <i>Heritiera fomes</i> <i>Aegialitisa rotundifolia</i> <i>Avicennia marina</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	Below 20	28								V
										A	0-10	Yellowish gray (2.5Y 5/1)	wet	CL	1cm crack, weak subangular blocky, few medium roots	4.8	
68	51.00	30.46	55.00	45.46	NTPG3	high	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	90	28								III
										A	0-10	Dull yellow (2.5Y 6/3)	dry	SiL	subangular blocky, 1cm crack, many medium roots, thin porous	6.0	
69	51.00	22.20	55.00	40.06	NTPG3	medium	<i>Phoenix paludosa</i> <i>Hibiscus tiliaceus</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	60	28								IV
										A	0-10	Gray (5Y 5/1)	fresh	SiCL	slightly hard, subangular blocky, 1-2cm crack, medium roots	5.5	
										B	30-50	Yellowish gray (2.5Y 6/1)	fresh	SIC	massive	5.2	
70	51.00	24.70	55.00	25.02	NTPG4	high	<i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Acrostichum aureum</i> (Remark: Slashed and burnt)	Below 94	25								III
										A	0-10	Gray (7.5Y 5/1)	fresh	SiCL	weak subangular blocky, 2% reddish brown mottles, 1 to 2cm crack, thin porous	5.5	
71	51.00	24.96	55.00	17.50	NTPG4	medium	<i>Cerriops decandra</i> <i>Aegiceras corniculatum</i> <i>Phoenix paludosa</i> <i>Finlaysonia maritime</i>	Below 65	28								IV
										A	0-10	Gray (5Y 4/1)	fresh	CL	many tiny and medium roots, 5% reddish mottles, 2cm crack, thin porous	5.5	
72	51.00	1.80	57.00	21.60	NTPG8/9	medium	<i>Heritiera fomes</i> <i>Excoecaria agallocha</i> <i>Cynometra ramiflora</i> <i>Xylocarpus granatum</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i>	Below 18	28								IV
										A	0-10	Grayish yellow brown (10YR 6/2)	wet	SiCL	massive, 5% reddish mottles, many tiny roots	5.6	
73	51.00	1.80	57.00	26.60	NTPG8/9	medium	<i>Heritiera fomes</i> <i>Aegiceras comiculatum</i> <i>Phoenix paludosa</i> <i>Merope angulata</i> <i>Dalbergia spinosa</i> <i>Finlaysonia maritima</i>	Below 18	28								IV
										A	0-10	Grayish yellow (2.5Y 5/1)	moist	SIC	5% reddish mottles, slightly hard, subangular blocky, many medium roots	5.6	
74	51.00	6.50	57.00	21.30	NTPG3	medium	<i>Heritiera fomes</i> <i>Cynometra ramiflora</i> <i>Excoecaria agallocha</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Finlaysonia maritima</i>	Below 20	27								IV
										A	0-10	Grayish olive (5Y 6/2)	moist	SIC	weak subangular blocky, many medium roots, 2% reddish mottles	5.6	
75	51.00	3.00	57.00	19.30	NTPG8/9	medium	<i>Excoecaria agallocha</i> <i>Cynometra ramiflora</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Clerodendrum inerme</i> <i>Flagellaria indica</i>	30	27								III
										A	0-10	Grayish (5Y 4/2)	moist	SCL	massive many medium roots, thin porous, 2% reddish mottles	5.4	
76	50.00	0.20	57.00	47.00	NTPG8/9	medium	<i>Avicennia marina</i> <i>Rhizophora apiculata</i> <i>Heritiera fomes</i> <i>Dalbergia spinosa</i> <i>Hibiscus tiliaceus</i>	28	30								V
										A	0-10	Dark grayish (2.5Y 5/2)	moist	SiCL	5% gray mottles	6.0	
77	50.00	53.20	57.00	47.00	NTPG8/9	low	<i>Avicennia marina</i> <i>Rhizophora apiculata</i> <i>Heritiera fomes</i>	Below 25	29								V

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic						pH	Soil Class		
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description						Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color	Moisture				Texture
							<i>Hibiscus tiliaceus</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>			A	0-10	Grayish olive (5Y 6/2)	wet	CL	2% reddish mottle	6.0	
78	51.00	9.40	57.00	44.50	NTPG8/9	medium	<i>Heritiera fomes</i> <i>Avicennia marina</i> <i>Bruguiera gymnorhiza</i> <i>Xylocarpus granatum</i> <i>Hibiscus tiliaceus</i>	Below 15	28								III
										A	0-10	Grayish olive (5Y 6/2)	wet	SiCL	massive, 1-2% reddish mottles	6.0	
79	51.00	10.90	57.00	38.50	NTPG8/9	medium	<i>Heritiera fomes</i> <i>Avicennia marina</i> <i>Xylocarpus granatum</i> <i>Bruguiera gymnorhiza</i> <i>Phoenix paludosa</i>	18	26								V
										A	0-10	Grayish olive (5Y 5/3)	moist	SiCL	massive, 1-2% reddish mottles many tiny roots	5.8	
80	51.00	4.24	57.00	29.36	NTPG8/9	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Heritiera fomes</i> <i>Xylocarpus granatum</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	25	25								V
										A	0-10	Dark grayish (2.5Y 5/2)	moist	SiCL	flooded area	5.8	
81	51.00	8.02	57.00	30.48	NTPG8/9	low	<i>Bruguiera gymnorhiza</i> <i>Cerriops decandra</i> <i>Xylocarpus granatum</i> <i>Hibiscus tiliaceus</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Below 18	28								V
										A	0-10	Dark grayish (2.5Y 5/2)	moist	CL	weak subangular blocky, 2% reddish brown mottles, thin porous, many fine roots	5.8	
82	50.00	59.64	57.00	33.40	NTPG8/9	high	<i>Cynometra ramiflora</i> <i>Diospyros embryopteris</i> <i>Hibiscus tiliaceus</i>	Below 120	26								I
										A	0-10	Grayish yellow brown (10YR 6/2)	dry	SL	fine hard and medium crunt structure, weakly hard, thin porous, some medium and big roots	6.8	
										B	30-50	Dull yellow orange (10Yr 7/4)	fresh	SL	fine and medium crunt structure, thin porous, many tiny roots	7.0	
83	51.00	7.64	57.00	35.60	NTPG8/9	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Derris scandens</i>	Below 5ft	30								III
										A	0-10	Yellowish gray (2.5Y 5/1)	wet	SiCL	massive, few tiny roots, thin porous, 2-3% reddish mottles	6.4	
84	51.00	11.36	57.00	34.02	NTPG8/9	low	<i>Bruguiera gymnorhiza</i> <i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	Below 23	28								V
										A	0-10	Grayish yellow brown (10YR 6/2)	wet	SiCL	reddish mottles, many medium and big roots, thin porous	6.0	
85	51.00	5.84	57.00	40.28	NTPG8/9	low	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Hibiscus tiliaceus</i> <i>Derris scandens</i>	Below 21	28								V
										A	0-10	Dull yellow gray (10YR 6/3)	fresh	SiCL	subangular blocky, slightly hard, 7% reddish brown mottles, thin porous, many thin and medium roots	5.6	
										B	30-50	Grayish yellow (2.5Y 7/2)	wet	SiCL	massive structure	5.5	
86	51.00	0.42	57.00	39.12	NTPG8/9	medium	<i>Phoenix paludosa</i> <i>Hibiscus tiliaceus</i> <i>Merope angulata</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	Below 23	25								I
										A	0-10	Grayish yellow brown (10YR 5/2)	moist	SL	weak subangular blocky, weakly hard, medium roots, fine porous	4.8	
87	51.00	2.88	57.00	45.30	NTPG8/9	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Derris scandens</i> <i>Acenthus ilicifolius</i>	Below 13	23								III
										A	0-10	Dull yellow (2.5Y 6/4)	moist	SiCL	weak subangular blocky, 7%reddish mottles, few fine roots	4.8	
88	51.00	14.34	57.00	36.90	NTPG8/9	low	<i>Rhizophora apiculata</i> <i>Bruguiera gymnorhiza</i> <i>Derris scandens</i>	Below 23	30								V
										A	0-10	Grayish olive (5Y 5/2)	wet	CL	3% reddish mottles, massive, few small roots	5.4	
										B	30-50	Olive yellow (7.5Y 6/3)	soggy	CL	massive, 5% reddish brown mottles	6.2	
89	51.00	14.34	57.00	38.90	NTPG8/9	low	<i>Rhizophora apiculata</i> <i>Nypa fruticans</i> <i>Hibiscus tiliaceus</i> <i>Derris scandens</i>	24	29								V
										A	0-10	Grayish olive (5Y 5/2)	wet	CL	massive, few fine and medium roots	5.0	
90	51.00	42.00	55.00	49.00	NTPG3	medium	<i>Cerriops decandra</i>	18	28								II

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No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic						pH	Soil Class		
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description							
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color	Moisture			Texture	Physical (structure, consistency, thickness, arangement)
							<i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Acrostichum aureum</i>			A	0-10	Gray (5Y 5/1)	wet	SiCL	massive, 2% reddish brown mottles, many fine roots	4.8	
91	51.00	46.00	55.00	31.80	NTPG3	low	<i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Acrostichum aureum</i>	21 below surface	28								III
										A	0-10	Grayish yellow (2.5Y 6/2)	dry	SiCL	subangular blocky, 10%reddish mottles, many tiny roots	5.0	
92	51.00	23.60	55.00	34.30	NTPG4	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i>	19 below surface	26								IV
										A	0-10	Dark grayish (2.5Y 5/2)	dry	SiCL	subangular blocky, slightly hard, 1-2cm cracks in surface	5.0	
93	51.00	23.60	55.00	34.30	NTPG4	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Hibisus tiliaceus</i> <i>Phoenix paludosa</i>	19 below surface	25								IV
										A	0-10	Olive yellow (5Y 6/3)	fresh	SiCL	subangular blocky, many thin and medium roots, 1-2cm crack	5.0	
94	51.00	22.40	55.00	33.80	NTPG4	low	<i>Cerriops decandra</i> <i>Flagellaria indica</i>	18 below surface	27								IV
										A	0-10	Yellowish gray (2.5Y 5/1)	moist	CL	subangular blocky, thin porous tiny roots, 7% reddish mottles, 1cm crack	5.2	
95	51.00	27.80	55.00	11.60	NTPG4	low	<i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Finlaysonia maritima</i> <i>Flagellaria indica</i>	26 below surface	27								II
										A	0-10	Olive yellow (5Y 6/3)	fresh	SiCL	slightly hard, 2% reddish mottles, thin porous, subangular blocky, few fine roots	5.0	
96	51.00	21.10	55.00	14.80	NTPG4	low	<i>Heritiera fomes</i> <i>Phoenix paludosa</i>	20	26								II
										A	0-10	Grayish yellow (2.5Y 6/2)	wet	SiCL	weak subangular blocky, thin porous, few small roots	5.3	
97	51.00	17.30	55.00	18.60	NTPG4	low	<i>Cerriops decandra</i> <i>Phoenix paludosa</i>	24 below surface	26								III
										A	0-10	Grayish olive (5Y 6/2)	wet	SiCL	weak subangular blocky, 2% reddish mottles, thin porous, few fine and medium roots	5.2	
98	51.00	16.00	55.00	25.00	NTPG4	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i>	25 below surface	25								IV
										A	0-10	Gray (5Y 6/1)	wet	CL	weak subangular blocky, thin porous, many small and medium roots, 20% reddish mottles	5.2	
99	51.00	22.40	56.00	9.40	NTPG6	medium	<i>Heritiera fomes</i> <i>Excoecaria agallocha</i> <i>Merope angulata</i> <i>Phoenix paludosa</i>	23	24								II
										A	0-10	Olive yellow (5Y 6/3)	moist	SiCL	weakly hard, weak angular blocky, 1-2% reddish mottles, many thin porous	5.3	
100	51.00	15.50	56.00	8.90	NTPG6	medium	<i>Heritiera fomes</i> <i>Excoecaria agallocha</i> <i>Merope angulata</i> <i>Phoenix paludosa</i>	20	25								III
										A	0-10	Dull yellow (2.5Y 6/3)	moist	SiCL	slightly hard, 5% reddish mottles	5.3	
101	51.00	22.80	56.00	0.70	NTPG6	medium	<i>Cerriops decandra</i>	16	26								III
										A	0-10	Gray (5Y 6/1)	moist	CL	slightly hard, weak subangular blocky, many small and medium roots	6.0	
102	51.00	8.20	55.00	59.20	NTPG6	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i>	20	25								III
										A	0-10	Gray (5Y 6/1)	moist	SiCL	slightly hard, weak subangular blocky, 7% reddish brown, small porous, few medium roots	5.6	
103	51.00	22.90	55.00	52.90	NTPG3	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i>	22	25								III
										A	0-10	Dark grayish (2.5Y 5/2)	moist	SiCL	slightly hard, weak subangular blocky, 5% reddish mottles, few small roots	6.0	
104	51.00	3.40	55.00	37.40	NTPG3	low	<i>Heritiera fomes</i> <i>Rhizophora apiculata</i> <i>Hibisus tiliaceus</i> <i>Phoenix paludosa</i>	16	24								V
										A	0-10	Grayish olive (5Y 6/2)	wet	SiCL	massive, many fine roots	6.2	
105	49.00	35.10	57.00	49.30	NTPG7	medium	<i>Excoecaria agallocha</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Acrostichum aureum</i>	45	38								III
										A	0-10	Yellowish gray (2.5Y 5/1)	moist	SiCL	weakly hard, weak subangular blocky, thin porous, few small roots	5.2	
106	49.00	28.10	57.00	59.70	NTPG7	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i> <i>Acrostichum aureum</i>	25	38								III
										A	0-10	Grayish olive (5Y 5/2)	moist	SiCL	weakly hard, weak angular blocky, thin porous, medium roots	5.6	

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No.	Location					Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic						pH	Soil Class		
	Latitude 15°		Longitude 94°						ground water level (cm)	Salinity ppt	Profile Description						Texture	Physical (structure, consistency, thickness, arangement)
	Min	Sec	Min	Sec	Min						Sec	Horizon	Profile (cm)	Color				
107	49.00	38.20	57.00	55.50		NTPG7	medium	<i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Hibiscus tiliaceus</i> <i>Derris scandens</i> <i>Finlaysonia maritima</i>	60	27							4.2	IV
108	49.00	37.10	57.00	50.30		NTPG7	medium	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Dalbergia spinosa</i> <i>Phoenix paludosa</i>	23	38	A	0-10	Yellowish gray (2.5Y 5/1)	moist	SIC	weak subangular blocky, thin porous, few small roots	4.8	III
109	49.00	41.60	57.00	55.00		NTPG7	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Derris scandens</i>	45	37	A	0-10	Dark grayish (2.5Y 5/2)	moist	SiCL	weak subangular blocky, 5% reddish mottles, many small and medium roots, thin porous	5.0	IV
110	49.00	38.10	57.00	51.70		NTPG7	high	<i>Excoecaria agallocha</i> <i>Heritiera fomes</i> <i>Phoenix paludosa</i>	60	37	A	0-10	Grayish olive (2.5Y 6/2)	fresh	SiCL	slightly hard, subangular blocky, thin porous, many fine and medium roots	5.0	III
111	49.00	59.30	58.00	10.10		TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i> <i>Derris scandens</i>	23	26	A	0-10	Dark Grayish (2.5 y 5/2)	wet	CL	subangular blocky 5% reddish mottles, few fine roots	5.4	IV
112	49.00	25.40	58.00	5.10		TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	26	28	A	0-10	Olive Brown (2.5 y 4/4)	moist	SIC	massive, 20% reddish mottles, many fine roots	4.8	IV
113	49.00	26.40	58.00	9.60		TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Heritiera Fomes</i> <i>Dalbergia spinosa</i> <i>Acrostichum aureum</i>	32	35	A	0-10	Olive brown (2.5 y 4/4)	fresh	SiCL	subangular blocky, many fine and medium roots, 5% reddish mottles	4.8	III
114	49.00	30.50	58.00	19.60		TYK121Ha	medium	<i>Avicennia marina</i> <i>Dalbergia spinosa</i>	50	32	A	0-10	Dark grayish (2.5 y 4/2)	fsresh	SiCL	slightly hard, subangular blocky, 5% reddish mottles, many thin and medium roots	5.8	II
115	49.00	33.10	58.00	27.10		TYK121Ha	medium	<i>Avicennia marina</i> <i>Sesuvium portulacastrum</i>	65	30	A	0-10	Dark grayish (2.5 y 4/2)	fresh	SIL	subangular blocky, 2% reddish mottles, many small roots	6.1	II
											B	20-50	Grayish olive (5 y 5/3)	moist	SiCL	subangular blocky	5.5	
116	49.00	39.60	58.00	26.70		TYK121Ha	medium	<i>Avicennia marina</i> <i>Sesuvium partunacastrum</i>	90	31	A	0-10	Dark grayish (2.5 y 4/2)	dry	SiCL	hard, subangular blocky, 10% reddish mottles, many fine and medium roots, 3 cracks	6.6	II
117	49.00	42.00	58.00	25.40		TYK121Ha	medium	<i>Avicennia marina</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i> <i>Sarcobolus carinatus</i>	105	32	A	0-10	Yellowish gray (2.5 y 4/1)	hard	SiCL	subangular blocky, 1% reddish mottles, 3 cracks	6.0	III
118	49.00	48.20	58.00	31.00		TYK121Ha	medium	<i>Avicennia marina</i> <i>Excoecaria agallocha</i> <i>Aegiceras comiculatum</i> <i>Cerriops decandra</i> <i>Sesuvium portulacastrum</i>	95	30	A	0-10	Grayish brown (2.5 YR 4/2)	hard	SiCL	angular blocky, 30% reddish mottles, thin porous, many fine and medium roots, 5 cracks	6.7	II
											B	20-50	Dark grayish (2.5 y 5/2)	moist	SIC	10% reddish mottles	5.0	
119	49.00	41.82	58.00	31.10		TYK121Ha	medium	<i>Avicennia marina</i> <i>Dalbergia spinosa</i> <i>Sesuvium protulacastrum</i>	125	31	A	0-10	Dark grayish yellow (2.5 y 4/2)	dry	SiCL	hard, subangular blocky, fine and medium roots	6.9	II
120	49.00	45.20	58.00	35.30		TYK121Ha	medium	<i>Cerriops decandra</i> <i>Avicennia marina</i> <i>Aegialitisa rotundifolia</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i>	130	33	A	0-10	Dull yellowish brown (10 YR 5/3)	dry	SiCL	subangular blocky, 5% reddish mottles, many fine roots, thin porous, 3 cracks	5.0	IV
121	49.00	40.00	58.00	35.80		TYK121Ha	medium	<i>Aegialitisa rotundifolia</i> <i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Derris scandens</i>	150	31	A	0-10	Grayish Brown (7.5 YR 4/2)	moist	SIC	weak subangular blocky, 5% reddish mottles, 1 cracks	5.2	IV
122	49.00	35.50	58.00	36.10		TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i>	125	32								IV

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic					pH	Soil Class			
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description					Texture	Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
							<i>Phoenix paludosa</i> <i>Derris scandens</i>			A	0-10	Grayish olive (7.5 Y 4/2)	moist	CL	subangular blocky, 50% reddish mottles, many small roots, 1 cracks	5.4	
123	49.00	33.30	58.00	33.10	TYK121Ha	medium	<i>Avicennia marina</i> <i>Cerriops decandra</i> <i>Dalbergia spinosa</i>	50	30	A	0-10	Grayish Yellow brown (10 YR 6/2)	dry	SiCL	hard, subangular blocky, many fine medium roots, 2 cracks	4.8	III
124	49.00	26.00	58.00	32.00	TYK121Ha	low	<i>Heritiera fomes</i> <i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Finlaysonia maritime</i>	55	30	A	0-10	Gray (5 Y 5/1)	moist	SiCL	subangular blocky, 1% reddish mottles, many fine and medium roots, 1 crack	5.6	V
125	49.00	28.50	58.00	27.10	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i>	65	33	A	0-10	Grayish yellow brown (10 YR 5/2)	moist	SiCL	subangular blocky, many small roots, 1 cracks	5.6	III
126	49.00	20.00	58.00	34.00	TYK121Ha	medium	<i>Avicennia marina</i> <i>Cerriops decandra</i> <i>Dalbergia spinosa</i>	50	30	A	0-10	Grayish yellow brown (10YR 4/2)	moist	SIC	subangular blocky, a few medium roots, 2 cracks	5.4	III
127	49.00	25.00	58.00	23.10	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Derris scandens</i>	110	31	A	0-10	Grayish yellow brown (10 YR 4/2)	moist	SiCL	subangular blocky, 30% reddish mottles, 2 cracks	5.4	III
128	49.00	22.30	58.00	28.70	TYK121Ha	medium	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Heritiera fomes</i>	80	31	A	0-10	Dark grayish brown (2.5 y 4/2)	moist	SiCL	subangular blocky, 20% reddish mottles, many thin and medium roots	5.2	III
129	49.00	16.60	58.00	29.00	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Derris scandens</i>	60	32	A	0-10	Grayish yellow brown (10 YR 4/2)	moist	SiCL	subangular blocky, 20 % reddish mottles, many thin and medium roots, 1 cracks	5.0	III
130	49.00	13.20	58.00	37.00	TYK121Ha	medium	<i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Derris scandens</i>	65	30	A	0-10	Grayish yellow brown (10 YR 4/2)	moist	SiCL	subangular blocky, 30 % reddish mottles, many thin roots	5.4	III
131	49.00	12.30	58.00	24.10	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Dalbergia spinosa</i> (Remark ; Slash and burnt)	60	32	A	0-10	Dull yellow orange (10 Yr 6/3)	moist	SiCL	subangular blocky, 50% reddish mottles, 2 cracks, many small roots	5.2	III
132	49.00	15.40	58.00	14.80	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Excoecaria agallocha</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	63	33	A	0-10	Dark grayish yellow (2.5 y 5/2)	moist	SiCL	subangular blocky, 5% reddish mottles, 1 cracks	5.4	III
133	49.00	19.40	58.00	18.00	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	63	34	A	0-10	Dark grayish yellow (2.5 y 5/2)	moist	SiCL	subangular blocky, 5 % reddish mottles, many thin roots, 1 cracks	5.4	III
134	49.00	25.00	57.00	59.80	TYK121Ha	medium	<i>Avicennia marina</i> <i>Aegiceras comiculatum</i> <i>Excoecaria agallocha</i>	45	32	A	0-10	Gray (7.5 y 4/1)	wet	SIC	massive medium roots	5.4	IV
135	49.00	20.00	58.00	4.10	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Aegiceras comiculatum</i> <i>Heritiera fomes</i> <i>Acrochum aureum</i> <i>Derris scandens</i>	39	33	A	0-10	Yellowish gray (2.5 y 4/1)	wet	SiCL	massive, 20 % reddish mottles, many thin roots	5.4	III
136	49.00	18.20	58.00	8.70	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	55	34	A	0-10	Grayish yellow brown (10YR 6/2)	moist	SiCL	subangular blocky, 20% reddish mottles, tiny roots 1cm crack	5.4	III
137	49.00	22.90	58.00	12.40	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Aegiceras comiculatum</i> <i>Excoecaria agallocha</i>	60	34	A	0-10	Grayish yellow brown (10YR 6/2)	moist	SiCL	subangular blocky	5.6	III
138	49.00	27.90	58.00	13.10	TYK121Ha	medium	<i>Avicennia marina</i> <i>Dalbergia spinosa</i>	92	36	A	0-10	Yellowish gray (2.5Y 5/1)	moist	SIC	subangularblocky, 30% reddish mottles, many small roots, 3cm crack	5.8	IV
139	49.00	31.50	58.00	11.50	TYK121Ha	medium	<i>Avicennia marina</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i>	75	35	A	0-10	Grayish Brown (7.5YR 6/2)	moist	SIC	subangular blocky, many small roots, 2cm crack	6.0	IV
140	50.00	5.30	58.00	26.40	TYK121Ha	medium	<i>Cerriops decandra</i> but destroyed by prolong water logging because constructed dyke for shrimp pan	52	33	A	0-10	Grayish Yellow brown (10YR 6/2)	moist	SiCL	subangular blocky, many small roots	4.6	III

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic						pH	Soil Class		
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description			Texture			Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
141	50.00	10.20	58.00	22.10	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Phoenix paludosa</i> .but are destroyed by prolong water logging caused by constructed dyke for shrimp pan	40	33								IV
										A	0-10	Grayish Yellow brown (10YR 5/2)	moist	CL	subangular blocky, many small roots, 30% reddish mottles	4.2	
142	49.00	35.30	58.00	17.10	TYK121Ha	medium	<i>Avicennia marina</i> <i>Dalbergia spinosa</i>	75	35								IV
										A	0-10	Brownish gray (10YR 5/1)	moist	CL	subanglar blocky, many small and medium roots, 5% reddish mottles, 2cm crack	4.4	
143	49.00	49.00	58.00	28.20	TYK121Ha	medium	<i>Avicennia marina</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i>	135	35								III
										A	0-10	Yellowish brown (2.5Y 5/3)	dry	CL	subangular blocky, many thin roots, 20% reddish mottles, 3cm crack	6.2	
144	49.00	59.30	58.00	27.40	TYK121Ha	medium	<i>Cerriops decandra</i> <i>Excoecaria agallocha phoenix poludosa</i> <i>Derris scandens</i>	102	34								III
										A	0-10	Yellowish gray (2.5Y 5/1)	moist	CL	subangular blocky, thin pores many small roots, 5% reddish mottles	5.6	
145	50.00	3.40	58.00	31.40	TYK121Ha	high	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i>	110	33								III
										A	0-10	Dark grayish yellow (2.5Y 5/2)	dry	CL	subangularblocky, 50% reddish mottles, fine small roots, thin pores, 2cm crack	6.6	
146	50.00	11.20	58.00	35.10	TYK121Ha	medium	<i>Aegiceras coniculatum</i> <i>Excoecaria agallocha</i> <i>Cynometr ramiflora</i> <i>Cerriops decandra</i> <i>Acrostichum aureum</i> <i>Phoenix paludosa</i>	120	32								III
										A	0-10	Grayish Yellow Brown (10YR 5/2)	dry	CL	angular blocky, 50% reddish, mottles, 2cm crack	6.8	
147	48.00	39.50	59.00	47.60	KTB28Ha	medium	<i>Excoecaria agallocha</i> <i>Phoenix paludosa</i> <i>Dalbergia spinosa</i> <i>Acrostichum aureum</i>	95	36								III
										A	0-10	Yellowish Brown (2.5Y 5/3)	moist	SiCL	subangular blocky 1 crack	5.0	
148	48.00	35.90	59.00	43.80	KTB28Ha	medium	<i>Aegialitisa roundifolia</i> <i>Excoecaria agallocha</i> <i>Aegiceras coniculatum</i> <i>Acrostichum aureum</i>	75	38								III
										A	0-10	Dark grayish yellow (2.5Y 5/2)	moist	SIC	sub angular blocky many medium roots, 1cm crack	6.0	
149	48.00	31.10	59.00	36.10	KTB28Ha	medium	<i>Excoecaria agallocha</i> <i>Aegialitisa rotundifolia</i> <i>Acrostichum aureum</i> <i>Phoenix paludosa</i>	80	36								III
										A	0-10	Grayish Yellow brown (10YR 5/2)	moist	SiCL	subangular blocky, 1cm crack	5.4	
150	48.00	36.10	59.00	26.90	KTB28Ha	medium	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Acrostichum aureum</i>	70	35								II
										A	0-10	Yellowish brown (2.5Y 5/3)	moist	SiCL	massive, 2 % reddish mottles, 1cm crack	5.5	
151	48.00	41.10	59.00	25.80	KTB28Ha	medium	<i>Cerriops decandra</i> <i>Aegriceras coniculatum</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i>	65	35								IV
										A	0-10	Dull yellow (2.5Y 6/3)	fresh	SIC	weak subangular blocky, 2cm crack	6.4	
152	48.00	48.10	59.00	32.80	KTB28Ha	medium	<i>Cerriops decandra</i> <i>Heritiera fomes</i> <i>Acrostichum aureum</i> <i>Derris scandens</i>	75	34								IV
										A	0-10	Dull yellow (2.5Y 6/4)	fresh	SIC	angular blocky, slightly hard, many small roots, 1cm crack	6.0	
153	48.00	50.10	59.00	36.60	KTB28Ha	medium	<i>Cerriops decandra</i> <i>Avicennia marina</i> <i>Excoecaria agallocha</i> <i>Aegialitisa rotundifolia</i> <i>Dalbergia spinosa</i>	72	36								IV
										A	0-10	Grayish olive (5Y 4/2)	moist	SiCL	subangular blocky, many small roots, 2cm crack	5.6	
154	49.00	12.40	59.00	52.60	PPG5	low	<i>Avicennia marina</i>	15	55								V
										A	0-10	Gray (5Y 5/1)	wet	CL	massive, many small roots, 2% reddish mottles	5.4	
155	50.00	12.80	59.00	4.90	PPG4	medium	Old paddy fields, plant cover mainly consists of grasses <i>Myetka</i> , <i>Myetka lone</i> (Myarma Name)	75	37								IV
										A	0-10	Brownish gray (10YR 5/1)	dry	CL	angularblocky, 2% reddish mottles, 2cm crack	4.2	
156	49.00	41.30	59.00	48.20	Agro-Forestry	high	<i>Lagerstroemia speciosa</i> <i>Albizzina procera</i> <i>Jack fruit</i> <i>coconut</i>	200	2								I

Attachment 4: Field Soil Survey Data Sheet

No.	Location				Site	Land form ground level	Vegetation (dominant species and specific land uses)	Soil Characteristic					pH	Soil Class			
	Latitude 15°		Longitude 94°					ground water level (cm)	Salinity ppt	Profile Description					Texture	Physical (structure, consistency, thickness, arangement)	
	Min	Sec	Min	Sec						Horizon	Profile (cm)	Color					Moisture
							<i>Banana</i> <i>Tarmesind</i> <i>Papaya</i>			A	0-10	Dull Yellow (2.5Y 6/4)	fresh	SL	friable, many small and medium roots	7.0	
157	49.00	8.20	59.00	21.60	PPG1	high	<i>Avicennia marina</i> <i>Aegialisa rotundifolia</i> <i>Cerriops decandra</i>	90	39	A	0-10	Grayish olive (5Y 5/2)	dry	SiCL	subangular blocky, many small roots	6.4	III
158	48.00	33.40	59.00	31.50	KTb28Ha	medium	<i>Cerriops decandra</i> <i>Aegiallisa rotulmdifolia</i> <i>Aegiceras comiculatum</i> <i>Excoecaria agallocha</i> <i>Dalbergia spinosa</i>	70	38	A	0-1	Dark Brown (10Y 3/3)	moist	SiCL	subangular blocky	5.5	III
159	48.00	39.40	59.00	29.90	KTb28Ha	medium	<i>Avicennia marina</i>	80	39	A	0-10	Yellowish Brown (2.5Y 5/3)	dry	SiCL	subangular blocky, many medium roots, thin porous	5.0	II
160	48.00	35.80	59.00	36.50	KTb28Ha	medium	<i>Argiceras caculatum</i> <i>Aegiallisa rotundifolia</i> <i>Avicennia marina</i> <i>Dalbergia spinosa</i>	75	38	A	0-10	Olive Brown (2.5Y 4/4)	fresh	SIC	hard, angular blocky	5.0	IV
161	48.00	39.30	59.00	33.60	KTb28Ha	medium	<i>Avicennia marina</i> <i>Excoecaria agallocha</i>	63	37	A	0-10	Dark brown (10Y R3/3)	wet	SIC	massive, 5% reddish mottles, many fine roots	5.5	V
162	48.00	41.10	59.00	39.80	KTb28Ha	medium	<i>Excoecaria agallocha</i> <i>Cerriops decandra</i> <i>Avicennia marina</i>	60	38	A	0-10	Yellowish brown (2.5Y 5/3)	wet	C	massive, 5% reddish mottles, many thin roots	5.5	V
163	50.00	55.20	59.00	30.30	PPG3	medium	<i>Avicennia officinalis</i> <i>Hibiscus tiliaceus</i> <i>Nypa fruticans</i>	24	35	A	0-10	Olive brown (2.5Y 4/4)	wet	C	massive, small roots, 25% reddish mottles	5.0	IV
164	49.00	25.30	59.00	7.60	PPG2	medium	<i>Excoecaria agallocha</i> <i>Heritiera fomes</i> <i>Cerriops decandra</i> <i>Phoenix paludosa</i> <i>Derris scandens</i>	25	36	A	0-10	Brown (10Y R4/4)	wet	SIC	massive, many small roots	4.5	IV
Nc-1	50.00	51.10	56.00	27.70	OrchardNTP	high	<i>Coconut</i> <i>Banana</i> <i>Arecanut</i> <i>Mango</i> <i>Guava</i>	142	5	A	0-10	Dull yellow orange (10Y R6/4)	dry	S	fine, friable, many fine roots	7.0	II
										Ab	38290	Dark Brown (7.5Y R3/4)	fresh	S	medium roots	7.0	
										Bc1	30-55	Yellowish brown (2.5Y5/6)	-	S	medium and big roots	6.8	
										Bc2	55-105	Dull yellow (2.5Y6/4)	moist	S	rare roots	6.8	
Nc-2	50.00	51.10	56.00	27.70	OrchardNTP	high	<i>Coconut</i> <i>Banana</i> <i>Arecanut</i> <i>Mango</i> <i>Guava</i>	142	5	A	0-10	Dull yellow orange (10Y R6/4)	dry	S	fine, friable, many fine roots	7.0	IV
										Ab	0-30	Dark Brown (7.5Y R3/4)	fresh	S	medium roots	7.0	
										Bc1	30-55	Yellowish brown (2.5Y5/6)	-	S	medium and big roots	6.8	
										Bc2	55-105	Dull yellow (2.5Y6/4)	moist	S	rare roots	6.8	
Nc-3	50.00	55.20	56.00	38.70	OrchardNTP	high	<i>Coconut</i> <i>Banana</i> <i>Guava</i> <i>Asparagus pea</i> <i>Bottle guard</i>	65	4	A	0-10	Grayish yellow brown (10YR4/2)	fresh	SL	structure less, friable, many fine roots	4.5	IV
										B	30-50	Dull yellow Orange (210YR7/4)	fresh	SIL	structure less, friable	4.3	

Soil Class I : Sandy Alluvium Deposited Soils
 II : Silty Alluvium Deposited Soils
 III : Tidal Saline Silty Soils
 IV: Tidal Saline Clayey Soils
 V: Saline Swampy Soils

G : Group
 PPG : Pilot Project Group
 Min : Minute
 Sec : Second
 ppt : Parts Per Thousand

TYK : Thar Yar Kone Village
 KTb : Ka Tha Baung Creek
 NTP : Nyaung Ta Pin
 Nc : Nyaung Ta Pin Coconut Area

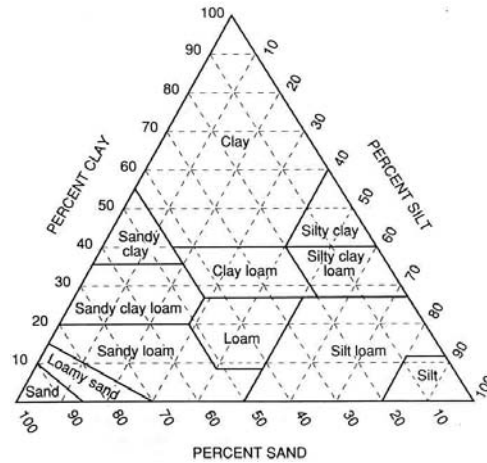
Soil Texture
 SiCL: Silty Clay Loam
 SCL: Sandy Clay Loam
 SiL: Silty Loam
 SiC: Silty Clay
 SL: Sandy Loam
 CL: Clay Loam

C: Clay
 S: Sand

Attachment 5: Lab Analysis Data Sheet

The following standards / criteria were used to evaluate the laboratory analytical results.

1. Classification of Soil Mineral Particle according to percentage of sand, silt, and clay



2. Soil pH evaluation

Soil pH	Evaluation
4.5 – 5.2	Strongly acid
5.3 – 5.9	Moderately acid
6.0 – 6.5	Slightly acid
6.6 – 7.0	Near neutral
7.1 – 7.5	Slightly alkaline

3. ECe Evaluation

ECe (millimho/cm)	Evaluation
< Clay Loam	very low
2 – Silty Clay Loam	low
4 – Clay	moderate
8 – 16	high

4. Organic Matter Evaluation

Organic Matter %	Evaluation
< 6.88	low
6.88 – 17	medium
> 17	high

5. CEC Evaluation

CEC (me/100g)	Evaluation
5 - 15	low
15 - 25	medium
25 - 40	high
> 40	very high

6. Exchangeable K Evaluation

Exch. K (me/100g)	Evaluation
< 0.2	low
0.2 – 0.6	medium
> 0.6	high

Acronyms for crops

R	= Rice, <i>Oryza sativa</i>
Mb	= Mung bean, <i>Phaseolus mungo</i>
Pp	= Pigeon pea, <i>Cajanus cajan</i>
Se	= Sesamum, <i>Sesamum indicum</i>
Su	= Sunflower, <i>Helianthus annus</i>
Sc	= Sugarcane, <i>Saccharum officinarium</i>
Ch	= Chilli, <i>Capsicum annum</i>
Ba	= Banana, <i>Musa paradisiaca</i>
Gu	= Guava, <i>Psidium guajava</i>
Veg	= Vegetable - include-
	Yard long bean <i>Vigna sesquipedalis</i>
	Tomato <i>Lycopersicon esculentum</i>
	Roselle <i>Hibiscus sabdariffa</i>
	Okra <i>Hibiscus esculentus</i>
	Mustard <i>Brassica juncea</i>
	Kaailaan <i>Brassica alboglabra</i>
	Water spinach <i>Ipomea aquatica</i>
	Cucurbits Species under family <i>Cucurbitaceae</i>

Attachment 6: Lab Analysis Data Sheet

No.	Soil Texture				pH	ECe (millimhos/cm)	Soil Salinity (TDS%)	Organic Matter (Humus%)	Organic Carbon (%)	Total			Base Saturation (%)	Cation Exchange Capacity CEC (me/100g)	available nutrients		Ex-changeable K (me/100g)	Soil Fertility Status	Crop Suitability (Pyinalan)
	Classification	Sand	Silt	Clay						N	P	K			P	K ₂ O			
		(%)	(%)	(%)						(%)	(%)	(%)			(ppm)	(mg/100g)			
1	Clay Loam	25.90	36.48	23.52	6.4	27.98	9.79	1.04	0.52	0.06	0.033	0.256	97.73	22.94	15.65	82.38	1.755	Moderately Fertile	R, Mb, Se, Su, Sc, Ch, Veg, Ba, Gu
2	Clay Loam	25.90	41.16	28.84	6.5	8.97	3.14	1.88	0.94	0.1	0.034	0.303	68.89	16.88	12.91	72.94	1.555	Moderately Fertile	R, Mb, Se, Su, Sc, Ch, Veg, Ba, Gu
3	Silty Clay	4.75	45.60	46.40	6.6	20.37	7.13	1.76	0.88	0.08	0.029	0.35	101.31	22.06	20	94.69	2.018	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
4	Silty Clay	5.15	49.72	42.88	6.2	22.22	7.78	3.44	1.72	0.15	0.052	0.367	100.62	27.45	8.72	102.64	2.188	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
5	Silty Clay	5.05	51.08	39.92	4.7	14.4	5.04	14.84	7.42	0.3	0.035	0.47	97.94	26.19	10.92	117.21	2.498	Fertile	R, Mb, Pp, Se, Su, Gu
6	Silty Clay Loam	6.85	52.08	39.92	5.2	32.92	11.52	13.04	6.52	0.34	0.027	0.539	104.34	44.14	11.52	138.75	2.957	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
7	Silty Clay Loam	3.65	57.10	35.20	5.3	28.8	10.08	15.3	7.65	0.35	0.036	0.468	96.01	42.41	13.61	162.41	3.461	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
8	Silty Clay Loam	2.55	64.72	30.28	5	46.91	16.42	18.62	9.31	0.45	0.06	0.552	101.78	37.69	6.66	173.06	3.688	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
9	Silty Clay	1.35	47.32	47.68	5.4	30.45	10.66	9.48	4.74	0.26	0.055	0.505	97.01	43.11	12.84	119.68	2.55	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
10	Silty Clay Loam	5.55	63.08	26.92	5.4	28.8	10.08	19.14	9.57	0.44	0.057	0.485	99.77	46.91	14.6	152.87	3.258	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
11	Silty Clay Loam	3.15	53.77	39.88	5.6	32.92	11.52	15.62	7.81	0.32	0.035	0.558	97.5	47.52	14.58	45.93	0.97	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
12	Silty Clay	2.55	50.20	42.27	5.8	20.22	7.08	8.76	4.38	0.26	0.047	0.517	99.96	43.81	8.95	125	2.66	Fertile	R, Mb, Pp, Se, Su, Gu
13	Silty Clay	2.40	39.60	53.50	5.6	37.83	13.24	15.68	7.84	0.35	0.049	0.645	102.83	57.18	10.9	186.75	3.98	Fertile	R, Mb, Pp, Se, Su, Gu
14	Silt Loam	4.90	70.03	18.08	5.8	38.68	13.54	21.68	10.84	0.55	0.063	0.501	102.01	54.1	8.91	213.61	4.55	Moderately Fertile	Mb, Se, Su, Ba, Gu.
15	Silty Clay Loam	1.85	57.72	37.28	5.8	49.38	17.28	11.56	5.78	0.45	0.036	0.703	105.39	60.7	8.91	185.92	3.96	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
16	Silty Clay	7.35	47.60	42.40	6.1	28.81	10.08	2.64	1.32	0.27	0.035	0.501	99.9	41.08	14.06	136.61	2.91	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
17	Silty Clay	1.75	48.07	45.99	4.2	37.03	12.96	13.9	6.95	0.28	0.034	0.429	101.94	59.79	12.84	118.23	2.51	Fertile	R, Mb, Pp, Se, Su, Gu
18	Silty Clay	1.40	49.04	45.36	4.8	38.68	13.54	13.26	6.63	0.3	0.034	0.429	98.25	63.34	11.37	147.6	3.14	Fertile	R, Mb, Pp, Se, Su, Gu
19	Silty Clay	4.55	53.00	40.00	5.3	30.92	10.82	13.54	6.77	0.42	0.047	0.421	100.73	62.6	10.96	144.77	3.08	Fertile	R, Mb, Pp, Se, Su, Gu
20	Silty Clay Loam	1.30	60.56	34.44	5.2	35.38	12.38	11.88	5.94	0.37	0.049	0.408	100.74	36.38	6.25	134.43	2.86	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
21	Sandy Clay Loam	65.45	11.08	22.12	4.6	28.8	10.08	14.04	7.02	0.35	0.042	0.459	95.4	39.38	8.51	133.37	2.84	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
22	Sandy Loam	73.85	10.52	13.48	5.5	22.22	7.78	2.34	1.17	0.08	0.022	0.151	93.52	20.41	9.89	46.82	0.99	Lower Fertile	Pp, Ba, Gu, Veg.
23	Silt Loam	4.95	73.88	17.12	5.7	24.69	8.64	5.58	2.79	0.26	0.036	0.369	96.09	32.53	13.49	143.72	3.06	Moderately Fertile	Mb, Se, Su, Ba, Gu.
24	Silt Loam	11.10	65.80	19.20	5.7	20.37	7.13	6	3	0.37	0.046	0.381	102.8	22.11	13.78	112.27	2.39	Moderately Fertile	Mb, Se, Su, Ba, Gu.
25	Silty Clay	3.80	49.64	45.36	6	16.46	5.76	0.26	0.13	0.19	0.032	0.39	95.45	24.38	12.63	116.97	2.49	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
26	Sandy Clay Loam	66.55	8.36	22.64	5.8	21.36	7.48	3.88	1.94	0.08	0.052	0.148	93.82	25.44	11.92	44.61	0.95	Lower Fertile	Pp, Se, Su, Ba, Gu, Veg.
27	Sandy Loam	60.55	18.02	17.28	5.2	43.61	15.26	4.38	2.19	0.13	0.044	0.12	95.92	20.6	10.11	85.55	1.82	Lower Fertile	Pp, Ba, Gu, Veg.
28	Silty Clay	4.15	40.04	47.16	5.6	39.16	13.71	6.8	3.4	0.31	0.043	0.654	98.65	45.91	13.41	132.55	2.82	Fertile	R, Mb, Pp, Se, Su, Gu
29	Silty Clay	4.35	43.36	48.64	5.8	32.93	11.53	9.54	4.77	0.28	0.028	0.509	98.65	35.51	15.91	135.55	2.88	Fertile	R, Mb, Pp, Se, Su, Gu
30	Silty Clay	3.50	41.44	52.56	6.2	24.03	8.41	6.12	3.06	0.18	0.048	0.435	96.28	30.93	9.35	117.78	2.51	Fertile	R, Mb, Pp, Se, Su, Gu
31	Silty Clay	2.15	44.44	49.56	5.8	24.03	8.41	4.04	2.02	0.23	0.04	0.354	93.67	32.24	14.38	127.55	2.71	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
32	Silty Clay Loam	2.90	57.03	37.38	6.2	24.92	8.72	5.16	2.58	0.22	0.042	0.369	102.28	30.3	9.89	109.42	2.33	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.

Attachment 6: Lab Analysis Data Sheet

No.	Soil Texture				pH	ECe (millimhos/cm)	Soil Salinity (TDS%)	Organic Matter (Humus%)	Organic Carbon (%)	Total			Base Saturation (%)	Cation Exchange Capacity CEC (me/100g)	available nutrienets		Ex-changeable K (me/100g)	Soil Fertility Status	Crop Suitability (Pyinalan)
	Classification	Sand	Silt	Clay						N	P	K			P	K ₂ O			
		(%)	(%)	(%)						(%)	(%)	(%)			(ppm)	(mg/100g)			
33	Silty Clay	1.40	43.48	51.79	5.8	30.26	10.59	15.48	7.74	0.31	0.049	0.516	100.61	31.22	10.96	120.58	2.57	Fertile	R, Mb, Pp, Se, Su, Gu
34	Silty Clay	9.90	46.22	40.99	6	24.03	8.41	9.54	4.77	0.38	0.041	0.5	97.57	36.68	10.45	132.55	2.82	Fertile	R, Mb, Pp, Se, Su, Gu
35	Silty Clay	5.35	42.76	47.24	6.1	16.02	5.61	3.22	1.61	0.2	0.051	0.353	96.72	27.48	16.77	105.81	2.25	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
36	Silty Clay	6.15	43.19	46.53	6.3	19.58	6.85	2.92	1.46	0.15	0.045	0.374	100.23	27.46	14.68	96.51	2.05	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
37	Silty Clay	1.95	51.58	42.55	6.4	22.23	7.78	2.76	1.38	0.18	0.044	0.448	103.81	26.24	16.26	122.11	2.6	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
38	Silty Clay	4.65	45.08	46.87	6	31.15	10.9	3.64	1.82	0.21	0.049	0.413	95.81	33.91	29.88	128.57	2.74	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
39	Silty Clay Loam	6.40	50.92	38.01	6.1	23.14	8.1	9.12	4.56	0.2	0.051	0.392	100.26	30.93	8.26	111.52	2.37	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
40	Silty Clay	2.95	44.56	48.59	6.2	24.03	8.41	6.6	3.3	0.18	0.03	0.378	97.84	28.61	14.94	133.19	2.83	Fertile	R, Mb, Pp, Se, Su, Gu
41	Silty Clay	3.95	49.32	43.36	6.2	26.9	9.42	5.8	2.9	0.13	0.038	0.396	98.34	32.98	16.77	121.94	2.59	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
42	Silty Clay	1.40	43.40	51.60	5.9	17.8	6.23	5.56	2.78	0.19	0.042	0.404	96.62	27.08	17.11	119.75	2.55	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
43	Silty Clay	4.20	45.08	45.92	5.5	17.8	6.23	5.68	2.84	0.33	0.044	0.455	93.94	27.08	15.78	95.68	2.03	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
44	Silty Clay Loam	5.50	54.04	38.16	6.2	12.01	4.2	15.62	7.81	0.19	0.049	0.433	95.15	25.76	15.83	111.25	2.37	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
45	Silty Clay	5.95	47.56	45.44	5.8	24.44	8.55	4.2	2.1	0.23	0.045	0.457	96.65	32.57	9.45	247.38	5.27	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
46	Silty Clay	5.80	45.08	47.25	6.1	22.76	7.97	7.02	3.51	0.24	0.033	0.459	93.81	33.42	9.14	117.19	2.49	Fertile	R, Mb, Pp, Se, Su, Gu
47	Silty Clay	2.70	38.64	54.36	5.8	18.54	6.49	4.3	2.15	0.18	0.038	0.496	109.75	33.78	17.17	138	2.94	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
48	Silty Clay	4.30	52.12	40.08	6	17.7	6.2	4.16	2.08	0.27	0.056	0.539	95.57	29.83	14.11	124.45	2.68	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
49	Silty Clay	2.60	53.20	42.80	6.1	18.54	6.49	3.68	1.84	0.22	0.056	0.405	100	33.78	9.41	136.16	2.9	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
50	Silty Clay Loam	3.40	53.20	38.80	6.2	28.8	10.08	6	3	0.25	0.028	0.576	101.31	33.51	8.67	137.07	2.94	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
51	Silty Clay Loam	1.90	56.84	39.16	6.4	6.99	2.45	6.44	3.22	0.22	0.027	0.456	93.72	23.1	8.17	90.322	1.925	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
52	Silty Clay	1.45	47.12	47.88	5.7	21.39	7.49	5.32	2.66	0.23	0.042	0.533	98.22	23.62	12.67	188.533	4.018	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
53	Silty Clay	1.90	54.32	42.68	6.2	19.75	6.91	5.32	2.66	0.23	0.027	0.498	93.57	24.15	12.44	132.533	2.824	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
54	Clay Loam	26.95	30.48	39.52	5.9	22.22	7.78	5.2	2.6	0.2	0.034	0.383	95.01	15.64	10.86	131.706	2.807	Moderately Fertile	R, Mb, Se, Su, Sc, Ch, Veg, Ba, Gu
55	Sandy Clay Loam	66.30	11.00	21.40	5.9	28.33	9.92	4.36	2.18	0.08	0.007	0.167	102.33	13.82	6.67	79.406	1.692	Lower Fertile	Pp, Se, Su, Ba, Gu, Veg.
56	Clay Loam	21.85	37.88	38.12	5	28.81	10.08	8.46	4.23	0.22	0.037	0.443	96.96	32.88	12.83	47.934	1.021	Fertile	R, Mb, Sc, Su, Se, Ch, Veg, Ba, Gu.
57	Silty Clay Loam	17.85	51.33	29.68	6.1	18.92	6.62	8.84	4.42	0.15	0.036	0.354	82.58	17.23	12.21	118.484	2.525	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
58	Silty Clay	1.40	45.08	48.74	5.9	13.16	4.61	9.04	4.52	0.2	0.031	0.396	91	22.4	11.18	82.322	1.754	Fertile	R, Mb, Pp, Se, Su, Gu
59	Silty Clay	11.75	43.56	41.02	5.8	24.69	8.64	2.66	1.33	0.21	0.035	0.418	96.52	23.3	9.78	82.133	1.75	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.

Attachment 6: Lab Analysis Data Sheet

No.	Soil Texture				pH	ECe (millimhos/cm)	Soil Salinity (TDS%)	Organic Matter (Humus%)	Organic Carbon (%)	Total			Base Saturation (%)	Cation Exchange Capacity CEC (me/100g)	available nutrients		Ex-changeable K (me/100g)	Soil Fertility Status	Crop Suitability (Pyinalan)
	Classification	Sand	Silt	Clay						N	P	K			P	K ₂ O			
		(%)	(%)	(%)						(%)	(%)	(%)			(ppm)	(mg/100g)			
60	Silty Clay Loam	5.25	52.89	38.88	6.2	11.91	4.17	4.5	2.25	0.13	0.037	0.456	86.53	24.16	17.63	77.225	1.645	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
61	Silty Clay	2.00	50.61	43.09	6	25.51	8.93	3.16	1.58	0.06	0.015	0.194	87.36	16.85	9.89	73.326	1.562	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
62	Silty Clay Loam	8.75	57.55	38.25	6	19.73	6.91	5.2	2.6	0.2	0.039	0.513	96.66	28.18	16.96	117.782	2.51	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
63	Silty Clay	2.80	42.44	53.56	5.8	10.69	3.74	7.82	3.91	0.25	0.05	0.556	89.45	23.51	23.91	120.13	2.56	Fertile	R, Mb, Pp, Se, Su, Gu
64	Silty Clay	6.50	43.36	47.64	6	13.99	4.9	8.46	4.23	0.3	0.042	0.494	93.12	24.4	15.06	134	2.856	Fertile	R, Mb, Pp, Se, Su, Gu
65	Silty Clay Loam	3.65	59.24	33.76	5.8	14.4	5.04	4.42	2.21	0.13	0.036	0.471	75.94	21.99	15.15	108.568	2.313	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
66	Silty Clay Loam	1.45	57.40	39.60	6.2	15.63	5.47	5.1	2.55	0.15	0.03	0.451	96.35	24.38	12.98	96.957	2.066	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
67	Silty Clay Loam	2.60	56.06	39.24	6.3	20.57	7.2	3.82	1.92	0.06	0.028	0.434	88.52	21.96	14.04	94.723	2.018	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
68	Silty Clay Loam	1.10	66.08	28.12	5.8	69.13	24.2	8.12	4.06	0.21	0.036	0.333	84.66	19.36	7.9	64.875	1.382	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
69	Silty Clay Loam	1.05	58.06	37.84	6	10.28	3.6	5.8	2.9	0.13	0.035	0.396	93.49	27.35	16.56	100.258	2.136	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
70	Clay Loam	30.47	31.06	37.24	6	11.52	4.03	5.8	2.9	0.11	0.041	0.456	95.1	27.54	8.39	122.903	2.619	Moderately Fertile	R, Mb, Se, Su, Sc, Ch, Veg, Ba, Gu
71	Silty Clay	1.10	44.00	50.00	5.8	22.22	7.78	5.86	2.93	0.2	0.041	0.565	75.35	27.51	15.43	94.5	2.014	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
72	Silt Loam	6.35	66.08	23.92	6.2	13.57	4.75	5.1	2.55	0.13	0.028	0.408	90.62	26.65	4.47	124.43	2.652	Moderately Fertile	Mb, Se, Su, Ba, Gu.
73	Silty Clay	5.20	47.04	45.36	6.2	9.88	3.46	3.22	1.61	0.15	0.045	0.396	95.72	22.33	10.54	90	2.088	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
74	Sandy Clay Loam	47.00	17.00	34.80	6.2	16.46	5.76	4.42	2.21	0.13	0.044	0.269	91.71	18.11	8.42	66.75	1.423	Lower Fertile	Pp, Se, Su, Ba, Gu, Veg.
75	Sandy Clay Loam	63.30	12.36	22.89	6.2	17.28	6.05	3.72	1.86	0.06	0.008	0.175	93.89	13.74	6.25	43.75	0.932	Lower Fertile	Pp, Se, Su, Ba, Gu, Veg.
76	Silty Clay	1.00	41.02	53.02	6.2	16.46	5.76	6.32	3.16	0.22	0.048	0.463	8336	26.93	21.68	120.69	2.572	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
77	Silty Clay	1.20	45.39	49.42	6.2	17.28	6.05	5.1	2.55	0.2	0.044	0.476	93.89	13.74	14.31	101.64	2.166	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
78	Silty Clay	1.15	44.31	50.81	6.2	13.99	4.9	5.04	2.52	0.17	0.037	0.463	94.38	29.17	6.81	86.87	1.852	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
79	Silty Clay Loam	2.90	57.00	35.88	6	14.81	5.18	5	2.5	0.15	0.036	0.475	96.22	23.79	7.57	81.59	1.739	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
80	Silty Clay	1.00	42.00	55.60	6	17.28	6.05	5.74	2.87	0.2	0.047	0.468	94.75	29.91	11.87	99.19	2.144	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
81	Silty Clay	1.08	45.10	50.60	5.8	15.63	5.47	7.08	3.54	0.2	0.051	0.478	93.72	30.63	10.86	103.85	2.214	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
82	Sandy Loam	74.30	11.06	13.24	5.8	0.3	0.1	6.12	3.06	0.23	0.035	0.106	20.68	9.77	10.82	13.92	0.299	Lower Fertile	Pp, Ba, Gu, Veg.
83	Silty Clay	1.12	44.04	51.96	5.6	22.22	7.78	10.66	5.33	0.3	0.043	0.533	93.9	33.59	11.11	139.3	2.969	Fertile	R, Mb, Pp, Se, Su, Gu
84	Silty Clay	1.06	46.02	48.48	5.6	23.86	8.35	7.92	3.96	0.25	0.04	0.457	93.9	32.59	10.98	102.46	2.184	Fertile	R, Mb, Pp, Se, Su, Gu
85	Silty Clay Loam	3.00	54.34	38.66	5.7	20.57	7.2	8.76	4.38	0.28	0.042	0.476	97.09	35.39	11.23	112.07	2.389	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
86	Sandy Loam	75.10	8.08	15.52	5.8	31.27	10.94	7.96	3.98	0.06	0.012	0.147	79.41	10.31	6.12	25.28	0.539	Lower Fertile	Pp, Ba, Gu, Veg.
87	Clay	11.70	35.72	50.28	5.5	17.28	6.05	8.84	4.42	0.24	0.05	0.471	82.44	26.37	15.15	98.36	2.097	Fertile	R, Mb, Su, Gu.
88	Silty Clay	1.10	46.06	48.44	5.6	21.39	7.49	7.24	3.62	0.25	0.072	0.483	78.02	26.89	14.06	126.23	2.68	Fertile	R, Mb, Pp, Se, Su, Gu

Attachment 6: Lab Analysis Data Sheet

No.	Soil Texture				pH	ECe (millimhos/cm)	Soil Salinity (TDS%)	Organic Matter (Humus%)	Organic Carbon (%)	Total			Base Saturation (%)	Cation Exchange Capacity CEC (me/100g)	available nutrienets		Ex-changeable K (me/100g)	Soil Fertility Status	Crop Suitability (Pyinalan)
	Classification	Sand	Silt	Clay						N	P	K			P	K ₂ O			
		(%)	(%)	(%)						(%)	(%)	(%)			(ppm)	(mg/100g)			
89	Silty Clay	1.01	45.08	50.32	5.7	14.81	5.18	3.88	1.94	0.15	0.054	0.559	99.19	26.06	13.97	102.74	2.1	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
90	Silty Clay	1.11	43.08	44.92	5.6	14.31	5.01	8.92	4.46	0.17	0.048	0.485	90.77	28.16	9.57	103.88	2.214	Fertile	R, Mb, Pp, Se, Su, Gu
91	Silty Clay	1.05	43.06	53.24	5.6	18.14	6.35	6.44	3.22	0.22	0.061	0.516	98.36	28.55	19.36	102.74	2.19	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
92	Silty Clay	2.15	46.31	48.56	6.3	36.28	12.7	5.16	2.58	0.13	0.055	0.576	98.7	27.37	11.43	102.74	2.19	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
93	Silty Clay	1.02	42.02	55.77	5.8	11.79	4.13	7.64	3.82	0.22	0.068	0.459	89.86	31.74	11.48	131.13	2.795	Fertile	R, Mb, Pp, Se, Su, Gu
94	Silty Clay	1.09	45.02	50.39	6.1	16.32	5.71	5.04	2.52	0.23	0.062	0.539	74.42	31.55	16.84	135.82	2.864	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
95	Silty Clay	1.10	43.88	50.05	5.8	11.79	4.13	3.16	1.58	0.23	0.058	0.505	90.49	37.45	20.21	102.78	2.191	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
96	Silty Clay	1.13	40.93	54.02	5.8	15.41	5.39	6.38	3.19	0.15	0.062	0.442	95.81	20.76	11.49	117.51	2.504	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
97	Silty Clay	2.90	48.80	44.20	5.8	16.32	5.71	6.32	3.16	0.15	0.065	0.379	99.96	26.64	11.36	129.75	2.766	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
98	Silty Clay	4.30	47.28	44.70	5.5	19.95	6.98	6.52	3.26	0.25	0.052	0.513	91.34	29.7	19.56	115.5	2.462	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
99	Silty Clay Loam	3.95	58.64	36.36	6	15.87	5.55	6.3	3.15	0.19	0.045	0.429	100.76	23.77	7.37	136.61	2.912	Fertile	R, Mb, Pp, Se, Su, Gu
100	Silty Clay	4.05	53.06	40.84	5.9	19.75	6.91	7.58	3.79	0.19	0.052	0.404	99.96	23.97	10.95	109.61	2.337	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
101	Silty Clay	1.10	46.32	48.68	6.2	19.75	6.91	3.12	1.56	0.08	0.05	0.417	92.11	22.68	18.75	101.71	2.168	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
102	Silty Clay	1.08	45.60	51.40	6.2	13.99	4.9	3.16	1.58	0.19	0.05	0.497	67.42	29.47	13.47	123.12	2.624	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
103	Silty Clay	1.05	44.10	50.40	6.2	10.69	3.74	6.36	3.18	0.22	0.07	0.546	77.66	27.33	16.23	129.95	2.77	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
104	Silty Clay	1.00	45.08	50.32	6.3	13.99	4.9	5.16	2.58	0.11	0.064	0.464	75.13	27.77	17.85	84.45	1.8	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
105	Silty Clay Loam	3.90	58.76	34.24	6.2	17.28	6.05	5.62	2.81	0.19	0.049	0.425	71.78	23.28	10.63	108.5	2.312	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
106	Silty Clay	4.95	49.12	44.88	6.2	23.04	8.06	5.04	2.52	0.11	0.058	0.446	96.82	23.04	14.31	118.71	2.53	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
107	Silty Clay Loam	3.95	54.40	37.60	6.3	20.27	7.09	5.04	2.52	0.15	0.058	0.455	96.71	24.32	10.73	87.1	1.856	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
108	Silty Clay Loam	6.45	50.08	39.92	6.2	32.09	11.23	5.68	2.84	0.13	0.055	0.438	60.43	22.38	12.63	100.58	2.144	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
109	Silty Clay	5.00	49.89	40.88	6.1	24.69	8.64	6.38	3.19	0.17	0.055	0.587	80.54	25.03	14.47	115.28	2.457	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
110	Silty Clay Loam	3.80	58.88	34.58	6.4	9.05	3.17	5.86	2.93	0.13	0.059	0.443	99.37	23.51	13.91	150.65	3.211	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
111	Silty Clay	2.80	42.38	52.99	5.8	14.4	5.04	7.74	3.87	0.18	0.037	0.525	71.11	23.43	17.41	121.25	2.584	Fertile	R, Mb, Pp, Se, Su, Gu
112	Silty Clay Loam	3.25	53.82	38.65	5.4	22.22	7.78	10.96	5.48	0.27	0.055	0.533	79.01	26.31	11.61	116.52	2.483	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
113	Silty Clay	7.90	46.95	42.00	5.2	20.57	7.2	11.62	5.81	0.33	0.058	0.516	93.98	29.57	16.74	137.29	3.273	Fertile	R, Mb, Pp, Se, Su, Gu
114	Silty Clay Loam	1.85	57.52	37.08	5.7	24.88	8.71	6.66	3.33	0.16	0.053	0.675	64.31	24.07	13.33	141.87	2.926	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
115	Clay	1.60	34.50	59.67	5.9	20.59	7.21	6.52	3.26	0.13	0.049	0.678	86.73	23.13	13.69	131.71	2.807	Moderately Fertile	R, Ch, Su, Gu.
116	Silty Clay	1.85	48.15	48.80	5.8	8.58	3	6.66	3.33	0.16	0.046	0.675	98.37	35.55	16.89	146.77	3.128	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.

Attachment 6: Lab Analysis Data Sheet

No.	Soil Texture				pH	ECe (millimhos/cm)	Soil Salinity (TDS%)	Organic Matter (Humus%)	Organic Carbon (%)	Total			Base Saturation (%)	Cation Exchange Capacity CEC (me/100g)	available nutrienets		Ex-changeable K (me/100g)	Soil Fertility Status	Crop Suitability (Pyinalan)
	Classification	Sand	Silt	Clay						N	P	K			P	K ₂ O			
		(%)	(%)	(%)						(%)	(%)	(%)			(ppm)	(mg/100g)			
117	Silty Clay	4.15	45.96	45.99	5.3	10.28	3.6	8.28	4.14	0.31	0.055	0.604	96.64	30.8	19.79	154.37	3.29	Fertile	R, Mb, Pp, Se, Su, Gu
118	Clay	1.70	34.12	59.88	5.2	17.16	6.01	9.12	4.56	0.18	0.056	0.669	92.56	29.82	20.65	131.71	2.807	Fertile	R, Mb, Su, Gu.
119	Silty Clay	1.30	51.06	44.24	5.3	24.02	8.41	5.94	2.97	0.18	0.06	0.563	101.42	30.1	19.12	137.77	2.936	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
120	Silty Clay	1.90	49.92	46.08	5.8	13.29	4.65	5.2	2.6	0.11	0.056	0.452	95.31	30.92	14.56	112.76	2.403	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
121	Silty Clay Loam	3.60	62.48	32.52	5.6	18.01	6.3	9.9	4.95	0.32	0.055	0.545	98.64	23.02	14.28	126	2.685	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
122	Silty Clay	3.25	45.08	47.92	5.5	17.16	6.01	7.1	3.55	0.27	0.063	0.576	89.61	25.98	23.01	137.29	2.926	Fertile	R, Mb, Pp, Se, Su, Gu
123	Silty Clay	1.00	43.12	51.08	5.8	15.01	5.25	9.78	4.89	0.13	0.055	0.643	98.87	31.93	16.74	150.65	3.211	Fertile	R, Mb, Pp, Se, Su, Gu
124	Silty Clay	2.65	52.24	42.76	6	17.16	6.01	8.84	4.42	0.22	0.051	0.522	89.61	25.98	10.1	120.69	2.572	Fertile	R, Mb, Pp, Se, Su, Gu
125	Silty Clay	5.25	43.24	49.76	5.5	20.39	7.14	7.02	3.51	0.26	0.051	0.562	91.01	28.93	15.53	124.21	2.647	Fertile	R, Mb, Pp, Se, Su, Gu
126	Silty Clay	4.35	49.20	42.80	5.2	17.16	6.01	15.48	7.74	0.38	0.049	0.593	97.44	30.91	12.68	125.55	2.676	Fertile	R, Mb, Pp, Se, Su, Gu
127	Silty Clay	2.40	52.40	40.60	5.6	32.08	11.23	11.48	5.74	0.4	0.052	0.545	94.37	31.79	11.06	119.52	2.547	Fertile	R, Mb, Pp, Se, Su, Gu
128	Silty Clay	4.10	51.00	42.20	5.8	10.35	3.62	11.48	5.74	0.35	0.059	0.553	61.33	31.21	15.53	126.45	2.695	Fertile	R, Mb, Pp, Se, Su, Gu
129	Silty Clay	2.10	51.12	44.88	5.6	49.73	17.41	9.12	4.56	0.29	0.061	0.617	68.91	32.86	14.78	162.29	3.459	Fertile	R, Mb, Pp, Se, Su, Gu
130	Silty Clay	2.90	41.85	54.00	5.8	22.76	7.97	12.76	6.38	0.33	0.057	0.529	101.1	27.39	13.82	112.6	2.4	Fertile	R, Mb, Pp, Se, Su, Gu
131	Silty Clay Loam	3.45	53.80	39.02	5.8	17.7	6.2	8.28	4.14	0.26	0.055	0.536	87.34	31.28	12.76	112.6	2.4	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
132	Silty Clay Loam	1.95	56.47	39.66	5.6	21.07	7.37	7.58	3.79	0.17	0.053	0.488	96.71	27.39	14.94	122.91	2.619	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
133	Clay	1.30	35.00	60.02	5.8	16.01	5.6	6.94	3.47	0.17	0.056	0.573	92.16	27.69	9.47	114.51	2.44	Fertile	R, Mb, Su, Gu.
134	Clay	1.20	36.11	59.89	5.5	23.6	8.26	7.82	3.91	0.15	0.058	0.565	90.06	29.37	13.69	143.46	3.058	Fertile	R, Mb, Su, Gu.
135	Silty Clay	1.40	51.76	42.24	5.5	19.38	6.78	8.92	4.46	0.24	0.063	0.57	98.47	29.37	14.89	138.78	2.958	Fertile	R, Mb, Pp, Se, Su, Gu
136	Silty Clay	4.60	48.20	43.80	5.5	21.91	7.67	9.56	4.78	0.26	0.06	0.596	98.14	29.2	12.53	105.67	2.252	Fertile	R, Mb, Pp, Se, Su, Gu
137	Silty Clay	2.65	47.04	48.96	5	22.76	7.97	9.68	4.84	0.27	0.06	0.722	102.03	29.54	9.89	181.85	3.876	Fertile	R, Mb, Pp, Se, Su, Gu
138	Silty Clay	1.85	49.84	46.16	5	22.76	7.97	8.96	4.48	0.24	0.05	0.809	93.73	35.77	14.02	19.41	4.08	Fertile	R, Mb, Pp, Se, Su, Gu
139	Silty Clay	3.50	49.64	42.36	4.4	27.81	9.73	17.64	8.82	0.34	0.053	1.118	87.18	26.76	8.23	218.65	4.66	Fertile	R, Mb, Pp, Se, Su, Gu
140	Silty Clay Loam	4.20	58.60	35.40	4.7	33.72	11.8	14.5	7.25	0.39	0.074	0.879	73.96	29.59	12.74	168.92	3.6	Fertile	R, Mb, Pp, Chi, Se, Sc, Ba, Gu, Veg.
141	Silty Clay	2.40	42.04	51.96	4.9	13.91	4.87	8.3	4.15	0.29	0.062	0.894	66.43	28.29	9.87	138.51	2.952	Fertile	R, Mb, Pp, Se, Su, Gu
142	Clay	2.50	34.00	61.20	5.2	19.38	6.78	11.36	5.68	0.3	0.042	0.831	91.83	31.1	6	139.5	2.973	Fertile	R, Mb, Su, Gu.
143	Silty Clay	2.45	40.24	55.76	5.2	21.91	7.67	8.3	4.15	0.2	0.064	0.923	97.76	24.11	20.21	147.67	3.147	Fertile	R, Mb, Pp, Se, Su, Gu
144	Silty Clay	3.20	43.08	48.92	5.7	16.01	5.6	7.82	3.91	0.25	0.07	0.63	88.61	30.37	26.52	120.52	2.569	Fertile	R, Mb, Pp, Se, Su, Gu
145	Silty Clay	2.45	48.36	45.64	5.3	13.91	4.87	8.3	4.15	0.26	0.078	0.67	83.34	23.87	16.8	122.43	2.609	Fertile	R, Mb, Pp, Se, Su, Gu
146	Clay	1.35	36.02	60.28	5.9	14.73	5.16	7.02	3.51	0.13	0.053	0.681	68.56	27.26	19.15	115.72	2.466	Fertile	R, Mb, Su, Gu.
147	Silty Clay	2.45	47.96	45.55	6.1	35.4	12.39	3.96	1.98	0.11	0.06	0.604	95.6	22.75	16.48	154.85	3.3	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
148	Silty Clay	5.25	42.10	48.03	6.1	34.79	12.18	3.72	1.86	0.08	0.05	0.526	98.58	26.02	9.78	107.6	2.293	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
149	Silty Clay	4.85	48.35	44.33	6.3	48.89	17.11	3.16	1.58	0.08	0.046	0.41	85.71	24.43	6.8	101.02	2.153	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
150	Silty Clay Loam	3.60	59.33	33.79	6.3	37.93	13.28	5.04	2.52	0.13	0.056	0.537	87.21	23.45	11.58	148.33	3.161	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.
151	Silty Clay	2.85	40.12	53.88	6.3	37.09	12.98	6.3	3.15	0.15	0.046	0.558	102.52	26.3	12.84	148.33	3.161	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
152	Silty Clay Loam	3.55	60.12	32.88	6.6	32.87	11.5	4.56	2.28	0.15	0.049	0.543	97.31	31.59	15.86	101.8	2.17	Moderately Fertile	R, Mb, Pp, Gg, Ch, Su, Se, Sc, Ba, Gu, Veg.

Attachment 6: Lab Analysis Data Sheet

No.	Soil Texture				pH	ECe (millimhos/cm)	Soil Salinity (TDS%)	Organic Matter (Humus%)	Organic Carbon (%)	Total			Base Saturation (%)	Cation Exchange Capacity CEC (me/100g)	available nutrienets		Ex-changeable K (me/100g)	Soil Fertility Status	Crop Suitability (Pyinalan)
	Classification	Sand	Silt	Clay						N	P	K			P	K ₂ O			
		(%)	(%)	(%)						(%)	(%)	(%)			(ppm)	(mg/100g)			
153	Silty Clay	1.25	42.00	55.00	6.4	49.73	17.41	5.68	2.84	0.17	0.052	0.631	96.13	29.07	10.73	134.84	2.874	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
154	Silty Clay	3.00	49.04	43.56	5.4	32.87	11.5	15.3	7.65	0.33	0.052	0.734	94.43	35.14	3.11	129.35	2.757	Fertile	R, Mb, Pp, Se, Su, Gu
155	Clay	1.40	36.36	59.64	5.6	41.3	14.46	5.68	2.84	0.15	0.039	0.716	89.2	33.7	11.58	118.93	2.535	Moderately Fertile	R, Ch, Su, Gu.
156	Sandy Loam	75.00	9.02	14.28	6.4	0.3	0.11	4.24	2.12	0.12	0.045	0.687	54.73	5.17	1.61	3.33	0.071	Lower Fertile	Pp, Ba, Gu, Veg.
157	Silty Clay	1.20	45.06	49.02	5.9	21.07	7.37	5.1	2.55	0.15	0.048	0.606	90.42	19.21	12.79	115.72	2.467	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
158	Silty Clay	1.50	45.06	50.24	6.2	21.07	7.37	5.74	2.87	0.11	0.052	0.723	62.31	27.59	13.62	97.4	2.076	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
159	Clay	30.70	18.00	50.00	6.4	11.38	3.98	4.42	2.21	0.11	0.055	0.579	64.56	23.73	13.68	98.59	2.101	Moderately Fertile	R, Ch, Su, Gu.
160	Silty Clay	1.05	42.00	52.00	6.4	10.11	3.54	4.42	2.21	0.11	0.055	0.642	75.63	23.43	13.89	105.44	2.247	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
161	Clay	1.55	34.56	61.44	5.4	21.91	7.67	9.58	4.78	0.33	0.053	0.723	100	29.82	13.62	131.59	2.804	Fertile	R, Mb, Su, Gu.
162	Clay	9.80	35.80	51.20	5.3	17.7	6.2	10.2	5.1	0.31	0.063	0.713	90.28	27.79	11.06	120.19	2.562	Fertile	R, Mb, Su, Gu.
163	Silty Clay	2.25	45.12	51.08	5.8	34.56	12.1	5.68	2.84	0.17	0.049	0.484	85.96	20.03	16.63	87.32	1.861	Moderately Fertile	R, Ch, Su, Se, Ba, Gu, Veg.
164	Silt Loam	18.20	53.37	23.76	6.2	29.61	10.36	5	2.5	0.13	0.042	0.114	76.36	17.6	7.29	68.69	1.405	Moderately Fertile	Mb, Se, Su, Ba, Gu.
165	Sandy Clay Loam	70.50	8.34	20.02	5.6	0.24	0.08	3.02	1.51	0.04	0.018	0.091	Nil	4.43	6.66	23.42	0.499	Lower Fertile	Pp, Se, Su, Ba, Gu, Veg.
166	Sandy Loam	78.35	7.00	13.17	5.2	0.34	0.12	5.5	2.75	0.17	0.027	0.092	Nil	3.98	2.24	3.97	0.085	Lower Fertile	Pp, Ba, Gu, Veg.
167	Sandy Loam	78.60	6.70	13.69	5.6	4.64	1.62	4.24	2.12	0.08	0.038	0.131	Nil	3.51	2.02	5.48	0.818	Lower Fertile	Pp, Ba, Gu, Veg.

Data book 5
*Socioeconomic Condition Survey of the Pilot Project
Target Villages*

Socio-Economic Condition Survey I

The Socio-economic Survey I was conducted by Technologies Development Group, a national consulting firm, from 16 February to 28 February 2003, to assess the potential as well as the social and economic structure of the two pilot villages: Thar Yar Kone and Nyaung Ta Pin in Pyinalan Reserved Forest. An additional objective is to choose appropriate indicators for monitoring and evaluating the P/P projects to be carried in these villages.

The main objective of the present survey is to assess the potential of the villager group activities through survey of both existing villager groups and underlying social structure. In addition, the village social and village economic structure will be studied.

The survey covered all households and existing villager groups in the two target villages such as user groups of community forestry, local association, farmer group, fisherman group and school association. The Social Potential Survey covered the data items regarding the characteristics of existing villager groups concerning the general information, activity, capability and future capability, relationship between villager group and governing bodies. The Social Structure Survey covered the basic social characteristics of households, ethnicity, religion, education, occupation as well as key persons, experience against emergency, group as well as individual level associations and experience in co-operative/mutual help system with particular emphasis on CF user groups. The Village Economy Survey covers the income and debt of households, input and production flow of household level enterprises (cottage industries). A few small-scale industries were also studied with a different type of questionnaires.

The Social Potential Survey composed of 4 parts, namely, (a) Group interview of board member of villager group such as management committee of CF user group, (b) individual interview of member of villager group using a questionnaire form, (c) interview to staff of government offices such as FD, Myanmar Agricultural Services, Department of Fishery, Land Record Department at Laputta.

Table 5.1-1 Group Characteristics

No.	Group's name	# of active members		# of inactive members		Established year	Initial # of members		Mission	Vision	Who gets information first of fund or promotion of group activity etc. and from whom and when?	Decision-making process regulated By-law or non-codified rule shared by all members	Intervention of others	Rate of participation	Financial contribution	Physical Contribution	How was the leader elected	How long it take mandate?	Is it possible to be elected 2 or more?	Is there a recall system?	Financial problems	If regular and ongoing activities overlap, please explain	
		Male	Female	Male	Female		Male	Female															
Thar Yar Kone																							
1	Village Development Committee	42	3	0	0	1995	42	3					consulted with mangrove project, Forest Department	100%	no	yes	elected by votes from all members in 1995	2 yrs	yes	yes			
2	UG Management Committee (CF)	8	0	2	0	1997	10	0			get information from U Than Hsun, U Win Maung and U Win Sein Daing in 1993. U Tin Ngwe from Poising come and organized villagers to participate in CFI in 1995	organized all members to attend the meeting and chairman lead in discussion. Chairman proposed activities and decided by all members.	VPDC and community elder solved the problems of villagers of this village. If not, asked the help of Village Tract Authority and then Department of Forest	70%	no	yes	Invited all household heads of CF members selected each post in the way of proposing one member and supporting by another member		possible	yes			
3	CF user sub-group .1	17	6	15	9	1997	33	16			U Tin Ngwe from Poe Laung informed in 1993-94. U Win Maung held discussion with villagers	Allocated Land to each CF User's Group member but all members worked together under management of CF User's Group Management Committee	80%	no	yes	nominated by village committee and approved by majority of all member wishes. In 1997	as long as he/she wishes and able to work	yes	yes				
4	CF user sub-group .2	17	20	3	0	1997	20	20			explain by group leader		40%	yes	yes	nominated by upper level authority and selected by group members	as long as he/she can	yes	yes				
5	CF user sub-group .3	7	1	2	6	1997	9	7			forest department gave information first in 1995 and discussed and decided by all members all group activities started in 1997		50%	yes	no	selected by all members in 1997	as long as he can	yes	yes				
6	CF user sub-group .4	9	10	2	4	1997	7	12			U Saw Htoo Say & U Johnson, leader of CF User's Management Group	Leader contacted to Forest Department in 1995	80%	yes	yes	elected by votes from all members in 1997	as long as he/she wishes & able to work	possible	yes				
7	CF user sub-group .5	15	5	4	12	1997	19	17			learned at the meeting of villagers with FD and JICA in which U Win Naing explained about CFI activities and benefits	learned while attending the meeting before become aconsult with CF User's sub Groups which was already formed	65%	yes	yes	membership fees 100 kyats	want to contribute appropriate amount	nominated by village committee and agreed by all members. In 1995	as long as he/she wishes and able to work	yes	yes		
8	CF user sub-group .6	15	0	0	0	2003	15	0			Preachers	all member participated in decision making	95%	yes	yes	selected by votes from all members of the group in 1987-88, 1997, 2001, 2002	3 yrs for pastor, 1yrs for yes preacher	yes	yes				
9	Christian Trustee Association (Thar Yar Kone)	21	26	6	4	1960	DK	DK			U Aye Win, UNDP WATSAN project, held discussion at the villagers meetings which was led by U Saw Johnson, community elders and formed Village WATSAN committee in 1996	While forming committee, discussed and selected by all	100%	no	no	selected by all members in 1996	as long as he can	yes	yes				
10	Village Water Supply and Sanitation Committee	5	5	0	0	1996	5	5			U Win Maung (Forest Department) have been explained and start persuaded at village												
11	Casual Labour Group	36	4	0	0	1995	26	4	not able to answer	not able to answer													
12	Farmers Group	8	0	0	0	1999	8	0			U Win Maung (Forest Department) have been explained and start persuaded at village	all members of the group participated in decision making	100%	yes		selected by group members at 1995	as long as he/she can	possible	yes				
13	Parent Teacher Association	35	26	0	0	1995	no record	no record			got information from Township Education Officer (TEO) through VPDC and teacher	discussed by all members and approved by chairman	100%	yes	yes	Head master did as a communicator between township and village. Got advise from him	selected by PTA members at the annual meeting	as long as he/she wishes and able to work	yes	yes			
14	Women Religious Golden Association	0	25	0	0	1997	0	20			to set free from the hell by doing good things	Preacher	100%	yes	yes	all villagers selected the leader since 1997	as long as he/she can	possible	yes				
Nyaung Ta Pin																							
15	Primary School Construction Committee	6	0	0	0	1974	8	0	to iterate all adult children of Nyaung Ta Pin village	low level education can degrade standard of living	U Tin Hla (chairman)	decision is outcome of mutual discussion of school U San Myint (Head master of Ayataw school) committee and VPDC	Good, all member participate	small contribution	physical and manpower by majority vote			yes, it is possible	yes				
16	UG Management Committee (CF)	4	0	4	0	2003	4	0	to protect and take care the sustainable of CF	Mangrove forest would be developed and natural environment would be better	Chairman and secretary	all members discussed and decided together	FD (if it is needed)			by majority vote	term of duty is not defined	it is possible	yes, there is				
17	CF user sub-group .1	10	0	0	0	2003	10	0	to take care and protect the mangrove forest	Mangrove forest would be developed and natural environment would be better	Group Leader	all members discussed , and decide together	VCD and FD			by majority vote at the meeting on 15/2/2003	not yet defined	it is possible	yes, there is	no			
18	CF user sub-group .2	11	0	0	0	2003	11	0	rehabilitation of Mangrove forest	developed Mangrove Forest, can increase Household incomes	Group Leader	got information from VPDC & FD	not yet	discussed with FD	Good	nil	labour contribution	elected by all member agreements	no mandate	it is possible	yes	nil	nil
19	CF user sub-group .3	7	0	0	0	2003	7	0	to take care and forest protection	Mangrove forest would be developed and natural environment would be better	Group Leader U Poe Si	nil	nil	nil	nil	by getting majority vote at the meeting on 15/2/03	term of duty is not defined yet	it's possible	yes	nil	nil		
20	CF user sub-group .4	10	0	0	0	2003	11	0	nil	infrastructure will be developed by the products of forest. (School Clinic , Water ponds)	U Hla Myint (Chief of 100 HH) get information first from forest department. (CF certificate were provided)	no initial meeting yet	U Hla Myint provided consultation and advice to CFI groups	nil	nil	nil	by majority vote on 15th Feb, 2003	no term of duty yet	not possible	no			
21	CF user sub-group .5	11	0	0	0	2003	11	0	to protect forest by plantation of tree	If forest is developed, it would support the livelihood of the community member	U Hla Myint (100 HH head) got first information from FD staff about CFI in 1996-1997	don't know decision making process because no meeting was held yet	advice from HDI field staff	None	none	none	by majority vote at 15/2/2002	term of duty is defined yet	possible	yes			
22	CF user sub-group .6	5	0	0	0	2003	5	0	conservation of forest	dense mangrove forest can develop individual income	CFI Leader	got information from FD before one month ahead of group formulation	not yet	discussed with FD	Good	no	Contributed labour for soil testing	selected by majority votes in group forming	as much as he/she can	possible	yes		
23	CF user sub-group .7	4	0	0	0	2003	4	0	to protect and keep forest and rehabilitation	developed forests can produce good habitats	Group leader U Myint Soe	got message from FD before group formation and discussed with members	not only decision making by leader but also include take advice from management committee	Good	Not yet contributed	not yet visible	selected by member's majority votes	as long as he/she can	possible	yes			
24	CF user sub-group .8	8	0	0	0	2003	7	0	to grow up the community forests successfully	successful mangrove can produce sufficient aqua products	Leader U Myint Soe	gets information first and inform others	decision were made by all members	100%	no	yes	by majority vote on 15th Feb 2003	no term of duty yet	possible	yes			
25	CF user sub-group .9	9	0	0	0	2003	9	0	to get fuel wood by weed-out in the forest. Nursery plantation	the Af-forestation can create development of habitats and can boost the economy of community	U Hla Myint (100 HH's head) gets information first	no initial meeting yet	no consultation to other	nil	nil	nil	by majority vote on 15/02/03	no term of duty yet	yes, it's possible	yes			
26	Catholic Christian Trustee (Nyaung Ta Pin)	4	0	3	0	2000	7	0	for Christian religion activities, leading role is required	promoting the number of the Christians and the long lasting of Christianity	Information received through the president of the trustee	mutual discussion and collective decision	take advice from elders	Good	collection of fund done in village	a donor from the village elected by the all Roman Catholic constructed the church		possible	yes		community forest fuel wood activities to be carried out constantly		
27	Christian Youth Association	5	4	0	0	1996	5	4	to promote the number of Christians and the long last of Christianity	Christianity can create peace & happiness for everybody	U Moris (leader) gets information from the priest (Aing Ma)	discussed with all members, decision making by chairman, V-chairman, secretary, Treasurer	they have consultation, advice from priest	Good	yes	yes	selected by member's majority votes	term of duty is 3 years	possible	yes			
28	Buddhist Trustee	4	0	0	0	1997	6	0	to enhance the quality and quantity of Buddhist	promoting the number of the Buddhists and the long lasting of Buddhism	decision is outcome of mutual discussion among members			all member participated some financial contribution	some physical contribution	by majority vote	none	yes, possible	yes		collecting the donations fund is not only regular but also ongoing activity. (Always needs fund for developing of religion)		
29	Women Income Generating Group	0	55	0	0	2001	0	21	to obtain more household income	give priority to women role in IG can achieve HH income	two leaders get information from VDC chairman	share information to all members and decision making by member's agreement	they take advises from VDC	Good	nil	nil	selected by member's majority votes	no	no	yes	some of members lost investment and the successors have responsibility to pay back the loan and interest for sufficient revolving fund		
30	Casual Labour Group	27	3	0	0	2000	27	3	to get more income for community	income generating activities especially in livestock breeding and fishery can promote living standard of community	VDC chair person (or) secretary	VDC chair person, secretary and village elders participated in decision making	UNDP	every members participate in discussion group	UNDP provide cash	no	there is no sub-group executives also	no	no	no	UNDP provided Revolving fund amount 320 thousands Kyats. Repayment + interest amount 160 thousands kyat		
31	Village People Militia	4	0	0	0	1980	unknown	unknown	village people's peaceful and secure community	self defending own community provides peaceful and secure daily life	Group leader get the information via leader of 100 HHs & leader of 10 HHs	final decision by group leader	from village elder	100% if probable	no	voluntary services	selected by community	no limitation	possible	yes			
32	Union Solidarity and Development Association (USDA)	0	0	60	50	1995	60	50	to build a modern developed country		via VPDC	decision is outcome of group discussion		weak in present condition	100K/member	nil	nominated by VT organizer	unknown	possible	unknown			
33	Village Woodlot Management Committee	23	0	0	0	2001	23	0	to develop forest for fire wood		U Hla Myint (VDC chairman) received from zone in all members decided decision (Work for patching up & weeding out)		request consultation from U Hlay Lin (Zone-b in charge from UNDP	Good (actively participate	nil	nil	all members agreed to select leader	nil	possible	yes	regular and ongoing activities are same		

Table 5.1-1 Group Characteristics

No.	The frequency of the general assembly meeting for the year 2002-2003			The frequency of the general assembly meeting for the year 2002-2003						Traditional liability for registration and reporting	Mention any limitation of village group activities by official or traditional norm	
	Frequency for 2002-2003	Name and position of person who convokes meeting and his case	Subject	Agenda (In general)	Place	Quorum	Strength of binding force of decision	Is There action discussion in the meeting or not ?	If there exist active discussions		official norm	Traditional norm
Thar Yar Kone												
1	only 1 time	chairman of VDC	annual progress reporting and discussion on further plan		Byu Shwe War Hall	more than 50%	75%	no		registered at HDI project office		
2	1 (11/2002)	chairman	to review the completion of plantation and success of activities scheduling of future activities		Byu Shwe War Hall, Thar Yar Kone village	75% , 80% attended	Over 50% of Management Committee and leaders of sub groups for urgent case.	no		registered at FD. Submitted annual report. Held a meeting when necessary		
3	1 time together with all members of the 5 groups	CF User's Group Management Committee	for Transplanting & weeding out		Byu Shwe War Hall	50%, 67% attended	50% of attendance			registered at Forest Department. Reported group progress to FD User's Group Management Committee in verbally		
4	1 - at the beginning of year 2002	chairman	don't know	don't know	Byu Shwe War (Mangrove Learning Centre)					already registered. Reported to CF User's Group Management Committee.		
5	1 time; together all members of CF User's Group	CFI chairman	review the annual progress of group activities and discuss about further plan		Byu Shwe War Hall, Mangrove Training Camp	75% ; 80% attended	50% of attendance	yes	explained till the members were satisfied	registered FD. Submitted the annual progress report		
6	once together with all CF User's Groups and the CF chairman of the Management Committee	User's MC	annual Program Report		Byu Shwe War Hall	Can't tell	don't know	no		registered at Forest Department. Held meeting when necessary. Reported to CF Users' Group Leader verbally	nil	nil
7	once together with the User's Management Committee									registered at Forest Department. Meeting when necessary.		
8	aim to hold the meeting annually		to discuss and review the activities of CF and to plan for future			67%	67% of attendance			already registered; allowed verbally	no	don't know
9	once in last week of December	management committee	discussion on annual progress and financial status, planning for coming year		at the church	60%	more than half of members	yes, but not much done to shyness	satisfied			
10										submitted the progress report to HDI WATSAN project		
11										report to VDC monthly financial and annual progress report		
12	not fix but all members meet time to time in case of emergency and solve the problem together						decided by all	yes		registered at HDI project office		
13	2 times	chairman(teacher)	to review previous activities and to lay down future plan		at school	all villagers		yes				
14	once a year	head of a religious order	to review the activities		church	100%				submitted to township for formation of association		
Nyaung Ta Pin												
15	once a month	U Hla Myint (100 Hts Head)	construction of the school building		VPDC office	75% of all member	decision is out come of mutual discussion of school committee and VPDC	yes		none		If the enrollment is less than 50, entrance for the examination at Ayrtaw BEMS is impossible
16	once a month	chairman or secretary can vote meeting with permission of village authority	assessment of CF activities	opening speech by chairman & village leader, then according to the meeting procedures	VDC office building	75% of members	committee members and village elder discussed together and decided by majority vote	yes, there was a action discussion in the meeting	non-executives were certified the explanation for their question			
17	no									no	first 10 acres should be accomplished within 10 months. The rest should be accomplished within 5 years	no
18	nil									nil	CFI registration , CFIs must be implemented completely within 5 year plan without fail	nil
19	nil									nil	nil	nil
20												
21											(1) First 10 Acres should be accomplished within 10 month (2) The rest should be accomplished within five year	
22											formation of CFI groups are registered and authorized by FD. CFIs must be implemented on 5 yrs plan without fail	
23											member can sell products of their forest by agreement of the group and approval of forest department. Re-forestation should be completed within 5 years.	
24										registered in Forest Department	need to weed-out 1 acre per year. need to patch up blanks. If forest department agree, want to sell some of fire wood that got by weeding out	
25	nil									no	to implement 10 acres within 10 months. to implement 41 acres within 5 yrs	
26	5 times	U Mann Win (chairman) , to collect fund for festivals	discussion the procedure of festivals and ways of the fund raising	distributing of the duties responsibility	church of the Nyaung Ta Pin village	15 members of Roman Catholic	decision making by (Central yes office (I Ma) and chairman	yes, explanation for the question, raced by the non-EC member were satisfied		established by Central office (I Ma)		
27	4th month (quarterly)	priest from Pain Ne Kone	Religious affairs	discussion for future plan & church blessing	church (Nyaung Ta Pin)	(15) person	priest, executive members (4) persons			yes	no	no
28	3 times	U Hla Nyein	Religious festivals	mutual discussion	monastery	all 4 member	agreements of all member	yes	satisfied		z	
29	12 times (1 times per month)	Chairman, VDC	discussion & sharing of rules and regulations	introduced by chairman, village elders. Problem solving in mutual discussion	VDC office		HH member's agreement	yes, satisfied			UNDP formed the group	
30	conducted the meeting at regular VPDC monthly meeting											
31	no formal meeting attend the VPDC meetings									no registration. Voluntary agreement on recruiting	no action unless VPDC give instructions	
32										registered - distributed membership cards	unknown	unknown
33	VDC + VPDC conduct meeting monthly	U Hla Myint (VPDC) as chairman of VDC	weeding out activities, patching up activities		VDC office		75%	yes	15 nos/member 23 no)	register at (008) project UNDP		

Table 5.1-2 Qualifications of Villages' Group Members

No.	Group's name	Qualification for Membership
Thar Yar Kone		
1	Village Development Committee	those who have paid 100 Ks for membership
2	Village Development Committee	those who have lived permanently for at least 3 years in the village
3	UG Management Committee (CF)	must be elected by all members of all CF User's Group
4	UG Management Committee (CF)	have lived at least 3 years in this village
5	UG Management Committee (CF)	must be a member of CF User's Group
6	CF user sub-group .1	those who have paid kyats 100 for membership fees
7	CF user sub-group .1	Villagers who have lived permanently at least 3 yrs in the village
8	CF user sub-group .2	a person who wished to do for development of village
9	CF user sub-group .3	have lived at least 3 years in the village
10	CF user sub-group .4	those who have lived permanently for at least 3 years in the village
11	CF user sub-group .4	those who have paid kyats 100 for membership fees
12	CF user sub-group .5	those who lived permanently at least 3 years in the village
13	CF user sub-group .5	those who have paid kyats 100 for membership fees
14	CF user sub-group .6	villagers who were left out in previous CFI plot allocation
15	CF user sub-group .6	have lived at least 3 years in the village
16	Christian Trustee Association (Thar Yar Kone)	Baptized villager who live permanently in the village
17	Village Water Supply and Sanitation Committee	have lived in the village
18	Casual Labour Group	casual labour
19	Casual Labour Group	landless
20	Farmers Group	farmer who live permanently in the village
21	Parent Teacher Association	must be parents
22	Parent Teacher Association	Interested person who can take responsibility
23	Women Religious Golden Association	The person who do not break the commandment
24	Women Religious Golden Association	The person who must be Baptist
Nyaung Ta Pin		
25	Village Peace and Development Council	must have ability to work hard
26	Village Peace and Development Council	to take responsibility of community affairs
27	Village Peace and Development Council	able to travel if required
28	Village Peace and Development Council	must be scarified
29	Mother and Child Care Association	must be female
30	Primary School Construction Committee	must be hh head
31	Primary School Construction Committee	must be native
32	UG Management Committee (CF)	member could explain to other about CF
33	UG Management Committee (CF)	member could attend the meeting
34	UG Management Committee (CF)	member must have basic education
35	UG Management Committee (CF)	member could make sacrifices
36	UG Management Committee (CF)	member must not involve in gambling and drug
37	CF user sub-group .1	must be interest in CF
38	CF user sub-group .1	must be native person
39	CF user sub-group .2	must be interest in CF activities
40	CF user sub-group .2	must have permanent resident in the village
41	CF user sub-group .3	member must be interested in CF activities
42	CF user sub-group .3	must be native
43	CF user sub-group .4	must be village community member
44	CF user sub-group .4	must be healthy
45	CF user sub-group .4	must be household head
46	CF user sub-group .5	must healthy and male only
47	CF user sub-group .5	must be native
48	CF user sub-group .5	must eagerness'
49	CF user sub-group .6	must understand in CFI activities
50	CF user sub-group .6	must be healthy
51	CF user sub-group .6	must have permanent dwelling unit in village
52	CF user sub-group .7	can read and write
53	CF user sub-group .7	must support and help village developing
54	CF user sub-group .7	must take responsibility
55	CF user sub-group .7	must attend every meeting
56	CF user sub-group .8	must be healthy and implement the CF activities
57	CF user sub-group .8	simple and honest

Table 5.1-2 Qualifications of Villages' Group Members

No.	Group's name	Qualification for Membership
58	CF user sub-group .9	must be healthy
59	CF user sub-group .9	must be village community member
60	Catholic Christian Trustee (Nyaung Ta Pin)	must be household head
61	Catholic Christian Trustee (Nyaung Ta Pin)	must be native
62	Catholic Christian Trustee (Nyaung Ta Pin)	must be Roman Catholic
63	Christian Youth Association	must be honest
64	Christian Youth Association	must be tolerate
65	Christian Youth Association	must be considerate
66	Christian Youth Association	must be faithful
67	Buddhist Trustee	must be native
68	Buddhist Trustee	must be truly beliefs on Buddhism
69	Buddhist Trustee	must have good character
70	Women Income Generating Group	member of household with insufficient and irregular income
71	Women Income Generating Group	must be interested in IG activities
72	Women Income Generating Group	must have permanent dwelling unit in village
73	Casual Labour Group	casual Labour only
74	Village People Militia	must be healthy
75	Village People Militia	must be male
76	Union Solidarity and Development Association (USDA)	must not involved in party policies
77	Union Solidarity and Development Association (USDA)	must sacrifice for religion
78	Union Solidarity and Development Association (USDA)	qualified in mobilization
79	Union Solidarity and Development Association (USDA)	eager to give voluntary service for the prosperity of community & nation
80	Village Woodlot Management Committee	must be household head
81	Village Woodlot Management Committee	must be male

Table 5.1-3 Objectives of the Villages' Group

No.	Group's name	Objectives
Thar Yar Kone		
1	Village Development Committee	to co-ordinate or liaise between the village & project
2	Village Development Committee	to distribute project aided articles to villagers
3	UG Management Committee (CF)	to be plenty of natural forest resources by conserving natural environment
4	UG Management Committee (CF)	to conserve mangrove forest
5	UG Management Committee (CF)	to meet daily basic needs
6	UG Management Committee (CF)	to benefit in long run
7	CF user sub-group .1	conservation of mangrove forest
8	CF user sub-group .1	livelihood improvement
9	CF user sub-group .1	to utilized fire wood
10	CF user sub-group .2	redevelopment of Mangrove Forest
11	CF user sub-group .2	to get fuel wood
12	CF user sub-group .3	conservation of the forest for long run use of natural
13	CF user sub-group .3	economic development of the village resources
14	CF user sub-group .3	to get own plot to work for better livelihood
15	CF user sub-group .4	livelihood improvement
16	CF user sub-group .4	Mangrove Forest Conservation
17	CF user sub-group .4	planting
18	CF user sub-group .5	conservation of mangrove forest for long run. production of fish, shrimp and crabs
19	CF user sub-group .5	economic Development of the area
20	CF user sub-group .5	to be able to trap crabs on own plot (livelihood improvement)
21	CF user sub-group .6	for betterment of mangrove forestation
22	CF user sub-group .6	for livelihood improvement
23	Christian Trustee Association (Thar Yar Kone)	everybody get salvation
24	Christian Trustee Association (Thar Yar Kone)	increment of Christian community
25	Christian Trustee Association (Thar Yar Kone)	maintenance of Christian Faith
26	Village Water Supply and Sanitation Committee	to build fly proof latrine
27	Village Water Supply and Sanitation Committee	to get drinking water
28	Casual Labour Group	to get aid from mangrove management group
29	Casual Labour Group	to enable to work on own business
30	Casual Labour Group	to maintain the mangrove forest
31	Casual Labour Group	to get support from fisheries production
32	Farmers Group	to develop in agriculture
33	Farmers Group	to overcome jobless situation
34	Farmers Group	to support fellow farmers by all means
35	Parent Teacher Association	to collect annual fund
36	Parent Teacher Association	to judge and improve for all school matters
37	Parent Teacher Association	to organized the parents for paying attention to their children's education
38	Parent Teacher Association	to work as a mediator between villagers and school official
39	Women Religious Golden Association	to send a person who propagate a religion
40	Women Religious Golden Association	to support for the propagation a religion
Nyaung Ta Pin		
41	Village Peace and Development Council	non-disintegration of the union
42	Village Peace and Development Council	consolidation of national sovereignty
43	Village Peace and Development Council	national reconsolidation
44	Mother and Child Care Association	to develop women and child health care
45	Mother and Child Care Association	to increase nutrition for children
46	Mother and Child Care Association	to protect from disease and to feed vaccine
47	Primary School Construction Committee	to become Basic Education Primary School
48	Primary School Construction Committee	to construct school building within two months
49	Primary School Construction Committee	to promote the education level of children
50	UG Management Committee (CF)	to Solve the problems
51	UG Management Committee (CF)	to unite the sub group
52	UG Management Committee (CF)	to Guide for CF activities
53	CF user sub-group .1	to get right the thirty years management role for CFI
54	CF user sub-group .1	to get benefit from CFI
55	CF user sub-group .1	to make the village development by the profit of CFI
56	CF user sub-group .1	to increase household income
57	CF user sub-group .2	to develop forest by patching up and weeding out

Table 5.1-3 Objectives of the Villages' Group

No.	Group's name	Objectives
58	CF user sub-group .2	to get forest plot individually and right to self control
59	CF user sub-group .2	to increase income
60	CF user sub-group .2	to support village development
61	CF user sub-group .3	to get benefit from CFI
62	CF user sub-group .3	to get right 30 years management role for CFI
63	CF user sub-group .3	to increase household income
64	CF user sub-group .4	to develop habitats
65	CF user sub-group .4	to get the fuel wood by weeding out the tree
66	CF user sub-group .4	to get timer to build houses
67	CF user sub-group .5	at prescribed growth, utilized for house construction by ratio quota timber
68	CF user sub-group .5	enhancing market of fishery product by promoting habitat
69	CF user sub-group .5	weeding the unnecessary trees and branches for fuel wood
70	CF user sub-group .6	keeping & protecting forest development
71	CF user sub-group .6	patching up for forest development
72	CF user sub-group .6	regular weeding out for forest development
73	CF user sub-group .7	each household can increase income
74	CF user sub-group .7	to develop forest
75	CF user sub-group .7	to support village development
76	CF user sub-group .8	to get sufficient income for community
77	CF user sub-group .8	to promote infrastructure (school, clinic, water pond)
78	CF user sub-group .9	to grow up forest successfully
79	CF user sub-group .9	to get fuel wood
80	CF user sub-group .9	to get sufficient aqua products
81	Catholic Christian Trustee (Nyaung Ta Pin)	mobilize to raise the fund
82	Catholic Christian Trustee (Nyaung Ta Pin)	sacred ground and worshipping houses are to be preserved
83	Catholic Christian Trustee (Nyaung Ta Pin)	to become new bloods religious
84	Christian Youth Association	to collect donated fund regularly
85	Christian Youth Association	to mobilize religious affairs
86	Buddhist Trustee	to construct new monastery
87	Buddhist Trustee	to steer the activities of Buddhism in the village
88	Women Income Generating Group	food security and increase women's income
89	Women Income Generating Group	to develop village by women's income supporting
90	Casual Labour Group	to gain more income for groups
91	Casual Labour Group	to have proper development in the village
92	Village People Militia	hunting the criminals and send to trial
93	Village People Militia	security of Government official
94	Village People Militia	security of the village
95	Village Woodlot Management Committee	to develop green forest
96	Village Woodlot Management Committee	to get fuel (fire wood)
97	Village Woodlot Management Committee	to get team work spirit

Table 5.1-4 Organization Set Up of Each Villages' Group

No.	Group's name	Member Name	Position
Thar Yar Kone			
1	Village Development Committee	U Chit Maung	Treasurer
2	Village Development Committee	U Johnson	Patron
3	Village Development Committee	U Saw Htoo Pa Lai	Auditor
4	Village Development Committee	U Saw Htoo Say	Chairman
5	Village Development Committee	U Saw Lwin	Secretary
6	UG Management Committee (CF)	U Saw Lwin	Secretary (1)
7	UG Management Committee (CF)	U Saw Sai Lwin	Vice-chairman
8	UG Management Committee (CF)	U Saw Htoo Say	Chairman
9	UG Management Committee (CF)	U Chit Maung	Treasurer
10	UG Management Committee (CF)	U Aung Nyunt	Secretary(2)
11	UG Management Committee (CF)	U Saw Htoo Lai	accountant
12	CF user sub-group .1	U Saw Shi Mo	Group Leader
13	CF user sub-group .2	U Chit Maung	Leader
14	CF user sub-group .3	U Saw Htoo Say	Leader
15	CF user sub-group .4	U Khin Bakh	Group Leader
16	CF user sub-group .5	U Kyaw Khin	Leader
17	CF user sub-group .6	U Pho Cho	Leader
18	Christian Trustee Association (Thar Yar Kone)	U Saw Htoo Palai	Preacher
19	Village Water Supply and Sanitation Committee	Saw Sea Mo	Secretary
20	Village Water Supply and Sanitation Committee	U Saw Nal Sin	Chairman
21	Casual Labour Group	U Saw Sea Mo	Group Leader
22	Farmers Group	U Saw Le Say	Group Leader
23	Parent Teacher Association	U Denial	Financial Sub Committee
24	Parent Teacher Association	U Johnson	Patron
25	Parent Teacher Association	U Saw Lwin	Financial Sub Committee
26	Parent Teacher Association	U Say Htoo	Patron
27	Parent Teacher Association	Vacant	Chairman
28	Women Religious Golden Association	Naw Say La Yar	Leader
Nyaung Ta Pin			
29	Village Peace and Development Council	-	100 HHs head
30	Village Peace and Development Council	-	10 HHs head
31	Mother and Child Care Association	Daw Hnin Wai	Leader
32	Primary School Construction Committee	U Chit Hlaing	Treasurer
33	Primary School Construction Committee	U Sein O	Treasurer
34	Primary School Construction Committee	U Than Aung	Secretary
35	Primary School Construction Committee	U Tin Hla	Chairman
36	UG Management Committee (CF)	U Hla Myint	Member
37	UG Management Committee (CF)	U San	Chairman
38	UG Management Committee (CF)	U Moe Zal	Bookkeeper
39	UG Management Committee (CF)	U Nyein Chan	Secretary
40	CF user sub-group .1	U Mann Tin	Reporter
41	CF user sub-group .1	U Moe Zal	Leader
42	CF user sub-group .2	U Kyi Thein	Leader
43	CF user sub-group .2	U Than Aung	Account
44	CF user sub-group .3	U Thant Zin Oo	Reporter
45	CF user sub-group .3	U Poe Si	Group Leader
46	CF user sub-group .5	U Chit Hlaing	Group Leader
47	CF user sub-group .6	U Hla Nyein	Group Leader
48	CF user sub-group .7	U Myint Oo	Leader
49	CF user sub-group .7	U Thein Shwe	Accountant
50	CF user sub-group .8	U Mg Aye	Recorder
51	CF user sub-group .8	U Myint Soe	Leader
52	CF user sub-group .9	-	Group Leader
53	Catholic Christian Trustee (Nyaung Ta Pin)	U Bar Lo	Vice-Chairman
54	Catholic Christian Trustee (Nyaung Ta Pin)	U Thar Hteik Oo	Secretary
55	Catholic Christian Trustee (Nyaung Ta Pin)	U Sein O	Auditor 1
56	Catholic Christian Trustee (Nyaung Ta Pin)	U Pe Oo	Auditor 2
57	Catholic Christian Trustee (Nyaung Ta Pin)	U Myo Naing	Joint Secretary
58	Catholic Christian Trustee (Nyaung Ta Pin)	U Man Win	Chairman
59	Catholic Christian Trustee (Nyaung Ta Pin)	U Moe Zal	Treasurer
60	Christian Youth Association	they have org chart	Not Available
61	Buddhist Trustee	U Hla Nyein	Chairman
62	Buddhist Trustee	U Chit Htwe	Secretary
63	Women Income Generating Group	they have organization	Not Available
64	Casual Labour Group	U Hla Myint	Leader
65	Union Solidarity and Development Association (USDA)	U Thant Zin Oo	Organizer
66	Village Woodlot Management Committee	U Khaing win	Leader
67	Village Woodlot Management Committee	U Kyin Thein	Leader
68	Village Woodlot Management Committee	U Moe Zel	Leader
69	Village Woodlot Management Committee	U Than Aung	Leader

Table 5.1-5 Relationship between Group Members

No.	Group's name	# of members by type of relation					
		Relative	Same Village	Same Business	Same Purpose	No Relation	Other
Thar Yar Kone							
1	Village Development Committee						
2	UG Management Committee (CF)		10				
3	CF user sub-group .1						47
4	CF user sub-group .2						40
5	CF user sub-group .3						3
6	CF user sub-group .4						25
7	CF user sub-group .5						36
8	CF user sub-group .6						15
9	Christian Trustee Association (Thar Yar Kone)				57		
10	Village Water Supply and Sanitation Committee						10
11	Casual Labour Group			40			
12	Farmers Group			8			
13	Parent Teacher Association				61		
14	Women Religious Golden Association				25		
Nyaung Ta Pin							
15	Village Peace and Development Council	3			6		
16	Mother and Child Care Association	3			5		
17	Primary School Construction Committee	2	6	5	6		
18	UG Management Committee (CF)	4	2	4	5		
19	CF user sub-group .1	5	2	10	10		
20	CF user sub-group .2	6	2	5			
21	CF user sub-group .3	7	7	7	7		
22	CF user sub-group .4	5	11	11	11		
23	CF user sub-group .5	5			11		
24	CF user sub-group .6	4		5	5		
25	CF user sub-group .7	3		4	4		
26	CF user sub-group .8	2		7	7		
27	CF user sub-group .9	7	9	9	9		
28	Catholic Christian Trustee (Nyaung Ta Pin)	3	7		7		
29	Christian Youth Association	9	4		9		
30	Buddhist Trustee				4		
31	Women Income Generating Group	39	10		55		
32	Casual Labour Group	25	15	30	30		
33	Village People Militia	2	1		4		
34	Union Solidarity and Development Association (USDA)	60	10	66	110		
35	Village Woodlot Management Committee	15	7	10	23		

Table 5.1-6 Method of Recruiting Funds and Sources of Budget

Serial no.	Group's name	Method of fund	Amount Kyats		% of Total		Duration of finding work
			Initial	Current	Initial	Current	
Thar Yar Kone							
1	Village Development Committee	Membersh	4,500				
2	Village Development Committee	Contributio	808,000	437,000			since
3	CF user sub-group .5	Membersh	100				
4	Christian Trustee Association (Thar Yar Kone)	Other		28,000		100	
5	Farmers Group	Membersh	800				
6	Parent Teacher Association	Contributio	5,000				
7	Women Religious Golden Association	Membersh	28,000				
Nyaung Ta Pin							
8	Catholic Christian Trustee (Nyaung Ta Pin)	Contributio	10,000	10,000	100	100	2001
9	Christian Youth Association	Membersh		7,000			
10	Buddhist Trustee	Other	50,000	60,000	100	100	
11	Women Income Generating Group	Membersh	2,100				
12	Women Income Generating Group	Contributio	310,000				started
13	Casual Labour Group	Contributio	3.2 Lakhs				
14	Village Woodlot Management Committee	Contributio	630,000				

Table 5.1-7 Financial Status of the Group

No.	Group's name	of financial	mount in Kyats
Thar Yar Kone			
5	Christian Trustee Association (Thar Yar Kone)	Donation	28,000
6	Parent Teacher Association	contribution	14,000
7	Women Religious Golden Association	Revenue	28,000
Nyaung Ta Pin			
1	Catholic Christian Trustee (Nyaung Ta Pin)	Revenue	10,000
2	Christian Youth Association	honorarium	9,000
3	Christian Youth Association	Expense	8,000
4	Christian Youth Association	Revenue	15,000

Table 5.1-8 Available Facilities and Equipments

No.	Group's name	Facilities
Thar Yar Kone		
1	UG Management Committee (CF)	Bought Kantpalar seeds from Department of Forest and distributed among all members
2	UG Management Committee (CF)	Distributed project aided boots and forest knives which received 3 times to each and every members
3	CF user sub-group .1	Have to buy their on own expense
4	CF user sub-group .1	Received 3 times of project aided boots and forest knives
5	CF user sub-group .2	boots & forest knives. Already got two times (the one, who can afford to buy his/her own equipment, used group's equipment)
6	CF user sub-group .3	Have to buy them on own expense now
7	CF user sub-group .3	Received 3 times of project aided boots and forest knives
8	CF user sub-group .4	Have to buy them now on their own expense
9	CF user sub-group .4	Received 3 times of project aided boots and forest knives
10	CF user sub-group .4	Bought Kant Palar seeds from FD
11	CF user sub-group .6	Equipments such as boots, gun (forest knives) and boots required for group activities are needed
12	CF user sub-group .6	Even if not available from project, there is no justification to buy themselves
13	Christian Trustee Association (Thar Yar Kone)	1 church (compound 0.5 acre), 1 cupboard, 60 benches, 1 loud speaker, 1 guitar, 1 preaching stand, 1 table mat, 1bell, vases etc
14	Village Water Supply and Sanitation Committee	No facilities and equipments owned by committee
15	Casual Labour Group	Boat
16	Casual Labour Group	fishing net
17	Casual Labour Group	fowl
18	Casual Labour Group	Pig
19	Casual Labour Group	Trap for crab
20	Parent Teacher Association	Land 1.5 acre (school compound)
Nyaung Ta Pin		
21	Primary School Construction Committee	School ground (0.12 acre)
22	Primary School Construction Committee	Furniture (1 Table, 1 chair, 4 benches)
23	CF user sub-group .1	No Facilities and equipment
24	CF user sub-group .2	No
25	CF user sub-group .3	Dah (Tree cutting Knife)
26	CF user sub-group .4	Dah (wood cutting knives), Jungle's boots, boat (small)
27	CF user sub-group .5	5 Dah (forest knives)
28	CF user sub-group .9	Dah (forest knives) 9 nos (own)
29	CF user sub-group .9	Jungle boots 9 pairs
30	Catholic Christian Trustee (Nyaung Ta Pin)	Church and facilities
31	Catholic Christian Trustee (Nyaung Ta Pin)	Community forest (3 acre)
32	Catholic Christian Trustee (Nyaung Ta Pin)	Religious ground (0.5 acre)
33	Christian Youth Association	chair (2) nos
34	Christian Youth Association	cup, saucers plate dish (60) nos
35	Christian Youth Association	cupboard (1) no
36	Christian Youth Association	spoon (60) nos
37	Christian Youth Association	Table (1) No
38	Buddhist Trustee	Bowl and plate= 64 sets
39	Casual Labour Group	Interest and revolving fund can be remitted some member
40	Village People Militia	People Militia uniform
41	Union Solidarity and Development Association (USDA)	A flag of USDA
42	Village Woodlot Management Committee	they have forest 57.5 acres for fire wood
43	Village Woodlot Management Committee	they have no facilities and equipments

Table 5.1-9 Activities of the Villages' Group (Include CFI Activities)

No.	Group's name	Special / Regular / On going	Activities	Purpose	Concrete activities of members	Period	Accomplishment	Obstacles
Thar Yar Kone								
1	Village Development Committee	Regular	buying boats and nets, etc.	To help members		since 1998	members get what they need	
2	Village Development Committee	Regular	seek means and ways to refund the project money	To help members			able to pay back the project money	
3	UG Management Committee (CF)	Regular	chairman of VPDC	to help members	the executive committee	time to time	meeting the necessities	
4	UG Management Committee (CF)	Regular	communicate with FD	to submit progress report	chairman	once a Year	FD know actual situation	
5	UG Management Committee (CF)	Regular	cooperate with sub groups	to carry out activates	chairman	time to time	complete the activities	
6	UG Management Committee (CF)	On Going	25 acres of the conserved forest	available for study by interested persons	all members	all times	students who prepared dissertation get knowledge	should be fully participated
7	UG Management Committee (CF)	On Going	3 acres of the model forest plot	available for study by interested persons	all members	all times	students who prepared dissertation get knowledge	should be fully participated
8	CF user sub-group .1	Regular	weeding Out, Planting	forest conservation	all members	since 1997	complete	people from near by villags steel the forest tree
9	CF user sub-group .1	On Going	planting, weeding out					
10	CF user sub-group .2	Regular	planting, weeding-out, look after own area for protection	to developed a forest	all members	since 1997	planting 64 acres, weeding-out 228 acres	
11	CF user sub-group .3	Regular	planting	forest conservation	all members planting	since 1997	completed 2 acre	the forest resources were stolen by the thieves
12	CF user sub-group .3	Regular	weeding out	forest conservation	all members weeding out	since 1997	completed 70.3 acres	
13	CF user sub-group .4	Regular	weeding & Planting	taking care of mangrove forest	7 members	since 1997	Improved in Forest Conversation	difficult in planting due to thorn bushes
14	CF user sub-group .4	On Going	weeding, planting and re-planting	taking care of mangrove forest				
15	CF user sub-group .5	Regular	weeding, re-planting	maintenance of mangrove forest	active participation	winter, raining season	on-going process completed	people from near by villags steel the forest tree
16	CF user sub-group .6	Regular	weeding out and planting the model forest plot	to know the feasibility of forest in that area and participation of members	will start in May 2003, 5 yrs plan			before starting the implementation, half the plot was destroyed because villagers from other village made and embankment. U Win Naing, FD prohibited them, but they continue their activities. there is no permanent pastor
17	Christian Trustee Association (Thar Yar Kone)	Regular	attending Sunday service, helping needing people	advancement of Christian faith	preaching, attending service	weekly		
18	Village Water Supply and Sanitation Committee	Regular	cleaned around the pond	to get clean water	led by Village WATSAN Committee and collaborated by all villagers	once a year	1-pond	
19	Village Water Supply and Sanitation Committee	Regular	well re-digging	to get clean water	led by village WATSAN committee and collaborated by all villagers	summer, once a year	1-dug well	can't get good drinking water in the southern part of village
20	Parent Teacher Association	Regular	discuss for improvement of children's education.	to improve children's education	PTA and villagers			Poor
21	Parent Teacher Association	Regular	fill 4 water pots by 4 groups in the village. Persuade the children to come to school regularly	to improve children's education	PTA and villagers			poor
22	Parent Teacher Association	Regular	renovation of school property. Acquiring new school property	to improve children's education	PTA and villagers			poor
23	Parent Teacher Association	Special	VPDC and PTA manage to reduce the dropout					
24	Women Religious Golden Association	Regular	sunday church collected by Donation. Vegetables sale. Rice Donation	to donate in the propagation a religion			nil	nil
Nyaung Ta Pin								
25	Village Peace and Development Council	Regular	for peace & development	to setup regulation	intervention	daily	smooth management	nil
26	Village Peace and Development Council	Regular	check immigrants	to setup security	management	daily	security of community	nil
27	Village Peace and Development Council	Regular	arrange monthly meeting	to setup regulation	participation	monthly	solution	nil
28	Village Peace and Development Council	Special	arrangement for other agencies activities	to inform	management	some time	development	nil
29	Village Peace and Development Council	Special	reporting (if it's required) to inform VPDC	to inform	observation	some time	sharing information	nil
30	Village Peace and Development Council	On Going	Village Peace & development work					
31	Mother and Child Care Association	Regular	give health education	to know health knowledge	poor	according to requirement	award health knowledge	less participation in health training
32	Mother and Child Care Association	Regular	feed Vitamin (A) tablets	to prevent from disease	poor	according to requirement	vitamin rich	les participation in health education
33	Mother and Child Care Association	Regular	conduct training for community	could support for health care	poor	according to requirement	feeding polio vaccine	less interest in training
34	Mother and Child Care Association	Special	feeding polio vaccine	to prevent polio	poor	according to requirement	partially complete	less interest in health care
35	Mother and Child Care Association	Special	feeding ATT vaccine	to prevent disease	poor	according to requirement	partially complete	less interest in health care
36	Mother and Child Care Association	On Going	health education	to know health knowledge	poor			difficult to organize
37	Primary School Construction Committee	Regular	construction of school building		fund raising, collect material	2002 - 03		not fully activated because community is building mangrove
38	Primary School Construction Committee	Regular	necessary preparation for hiring teacher		fund raising, Getting information to get teacher	3/03 - 05/03		
39	Primary School Construction Committee	Special	fund collecting	to construct brick structure school building	collecting fund, discussed to fix the quota	3/03 - 5/03		not enough money
40	Primary School Construction Committee	On Going	fund collecting	to construct school building	collection HH by HH	3/03 - 5/03		
41	Primary School Construction Committee	On Going	site selection	to construct school buildings	conduct meeting and ground checking	3/03 - 5/03		
42	UG Management Committee (CF)	Regular	protecting the forest		patrol			
43	UG Management Committee (CF)	Regular	preparation of guidance to the CF groups members					
44	UG Management Committee (CF)	Regular	enhance the morals of CF members					
45	UG Management Committee (CF)	On Going	participating in survey to divided CF area			3/03		
46	UG Management Committee (CF)	On Going	collecting the seeds for nursery			2/03-4/03		difficult for livelihood and transportation
47	UG Management Committee (CF)	On Going	selecting the members to establish CF groups			2/03		
48	CF user sub-group .1	Regular	nursery	to develop forest	seed collecting	5/03 to 6/03		
49	CF user sub-group .1	Regular	protecting the forest	to develop forest	patrol	5/03		
50	CF user sub-group .1	Regular	reforestation	to develop forest	plantation, weeding, patching	5/03		less income in this period
51	CF user sub-group .1	Special	fire protection	to protect forest	fire break line	11/03 to 12/03		
52	CF user sub-group .1	On Going	conducting meeting	CF acre field activities				
53	CF user sub-group .1	On Going	seed collecting	plantation				
54	CF user sub-group .1	On Going	soil test	soil test for plantation				
55	CF user sub-group .1	On Going	voluntary in earth survey	CF acre filed marking				
56	CF user sub-group .2	Regular	reforestation	to grow tree	patching up	5/03 to 3/04		less income
57	CF user sub-group .2	Regular	protecting the forest	to keep forest from illegal cutting	patrol	5/03 to 3/04		transportation
58	CF user sub-group .2	Regular	nursery	plantation	weeding out, plantation	5/03 to 3/04		lack of hand tools
59	CF user sub-group .2	On Going	soil testing	plantation	digging sample	2/03 to 5/03		transportation
60	CF user sub-group .2	On Going	cadastral Survey	mapping	guide	2/03 to 5/03	73 acres	less income
61	CF user sub-group .2	On Going	nursery	plantation	seeds collection	2/03 to 5/03		
62	CF user sub-group .3	Regular	nursery	plantation	collection of seeds	6/03 to 9/03		far from village
63	CF user sub-group .3	Regular	forest protection	to protect forest	patrol	5/03		High land, Overlap with prawn pond
64	CF user sub-group .3	Regular	reforestation	to develop forest	plantation, weeding, patching	5/03		less income
65	CF user sub-group .3	On Going	earth survey	demarcation for quota	CF acre marking	2/03 to 4/03		no wages
66	CF user sub-group .3	On Going	soil test	CFI Block		2/03 to 4/03		
67	CF user sub-group .3	On Going	meeting	discussion	CF area selection	2/03		
68	CF user sub-group .4	On Going	embarking pillars		escorting	15 Feb, 2003 to now	could start quickly	less income in implementation period
69	CF user sub-group .4	On Going	soil test		carrying instruments	15 Feb, 2003 to now	selected correctly the kind of plant	less income in implementation period
70	CF user sub-group .4	On Going	cadastral survey		guide the route to enter the forest	15 Feb, 2003 to now	could start quickly	less income in implementation period

Table 5.1-9 Activities of the Villages' Group (Include CFI Activities)

No.	Group's name	Special / Regular / On going	Activities	Purpose	Concrete activities of members	Period	Accomplishment	Obstacles
71	CF user sub-group .4	On Going	discussed about the tide			2003		less income in implementation period
72	CF user sub-group .5	Regular	nursery		seed collecting	5/03 - 6/03		
73	CF user sub-group .5	Regular	protecting the forest		patrol	5/03		
74	CF user sub-group .5	Regular	reforestation	to develop forest	plantation, weeding, patching	5/03		less income in this period
75	CF user sub-group .5	Special	fire protection	to protect forest	fire breaking line	11/03 - 12/03		
76	CF user sub-group .5	On Going	voluntary survey work for CF area marking					
77	CF user sub-group .5	On Going	participated in mess meeting for CF acre dividing					
78	CF user sub-group .6	Regular	nursery	to develop forest	plantation	05/03 - 6/04		less income
79	CF user sub-group .6	Regular	protecting	to develop forest	keep, care, patrol	05/03 - 6/04		less income
80	CF user sub-group .6	Regular	reforestation	to develop forest	weeding out, patching up	05/03 - 6/04		less income
81	CF user sub-group .6	Special	to construct compartment security huts	To protect	collecting materials & construction	05/03		less income
82	CF user sub-group .6	On Going	voluntary work in cadastral survey and soil testing					
83	CF user sub-group .7	Regular	reforestation	to grow trees	weeding out patching up	5/03 - 3/04	cadastral survey	HH income
84	CF user sub-group .7	Regular	Nursery	greening	seed collection, plantation	5/03 - 3/04		lack of hand tool
85	CF user sub-group .7	Regular	protecting the forest	to develop forest	patrol	5/03 - 3/04		lack of boat
86	CF user sub-group .7	On Going	attend meeting share information	to implement	not yet		not yet	
87	CF user sub-group .8	Regular	weeding out process	to grow up	weeding out	10 months		Dah, Boots, Boats and less income in implementation period
88	CF user sub-group .8	Regular	patching up the plants	to promote density	helping	5 yrs		Dah, Boots, Boats and less income in implementation period
89	CF user sub-group .8	Regular	protect the forest	to grow up	patrol	always		Dah, Boots, Boats and less income in implementation period
90	CF user sub-group .8	On Going	attending meeting					
91	CF user sub-group .9	Regular	protecting the forest	to grow up	work sharing in schedule	whole yrs	nil	natural barriers
92	CF user sub-group .9	Regular	conservation of mangrove	to grow-up, to promote density	weeding out, patching up	whole yrs	nil	less income in implementation
93	CF user sub-group .9	Special	to participate in training	capacity building	to attend training	nil	nil	less income in training period
94	CF user sub-group .9	On Going	cadastral survey	to know respective group area	to help the MSN for surveying	one week		
95	CF user sub-group .9	On Going	boundary demarcation	to know feature in respective area				
96	Catholic Christian Trustee (Nyaung Ta Pin)	Regular	donating of the requirement of priest	for meritorious intention	arranged the Meal, drinking water sheltering, for moving place to place		Increased spiritual strength	
97	Catholic Christian Trustee (Nyaung Ta Pin)	Regular	maintenance and purchase the facilities for church	to better facilities	collecting the donation (handful of rice)			
98	Catholic Christian Trustee (Nyaung Ta Pin)	Special	ancestors worshipping (at grave yard)	to get to the heaven for the pass	blessed for the passed away people	2/11	everybody of the community happy and	
99	Catholic Christian Trustee (Nyaung Ta Pin)	Special	Virgin Mary day	accenting to heaven	organized the people to held the virgin Mary day	15/8	everybody of the community happy and	
100	Catholic Christian Trustee (Nyaung Ta Pin)	Special	X-mas festival	to be always memorize the birth of charts	organized to have proper merry x-ms	25/12	everybody of the community happy and pleasure	
101	Catholic Christian Trustee (Nyaung Ta Pin)	On Going	preparation of blessing for tour monthly					
102	Catholic Christian Trustee (Nyaung Ta Pin)	On Going	protecting the fire wood forest (CF)	not to waste	patrol	2001- now	less the wastage	
103	Christian Youth Association	Regular	Christmas festival	to always memorize birth of Christ	participation	Dec 25	good participation	no
104	Christian Youth Association	Regular	collect donation	fund raising	rice	every Sunday	fund accumulated	no
105	Christian Youth Association	Regular	ceremony of blessing (quarterly)	to get to the heaven	participation	quarterly	good participation	no
106	Buddhist Trustee	Regular	supervision of the celebration of religious festivals		collecting of donation fund, distribution the duty		peaceful celebration	
107	Buddhist Trustee	Special	construction of the monastery		fund raising, selecting the religious ground		grants of religious ground on when the monastery is to be built	
108	Buddhist Trustee	On Going	collecting the donation fund for the construction of monastery					
109	Women Income Generating Group	Regular	local trading (crab)	to get profit	marketing	daily	increased income	
110	Women Income Generating Group	Regular	pig breeding	to get profit	feeding		increased income	
111	Women Income Generating Group	Regular	selling merchandise	to get profit	marketing	daily	increased income	transportation
112	Casual Labour Group	Special	nursery Work		packed the plants			
113	Casual Labour Group	Special	weeding out		remove, cut the wild plants			
114	Casual Labour Group	On Going	cadastral survey		pillar erection			less income in implementation period
115	Casual Labour Group	On Going	participated in protection of mangrove		guard, patrol	5 yrs		less income in implementation period
116	Casual Labour Group	On Going	soil test		digging profiles			
117	Village People Militia	Regular	escorting the officials	for security	escorting		peaceful community	nil
118	Village People Militia	Regular	guarding the celebrations and funerals	for security	patrol and guarding		peaceful community	nil
119	Village People Militia	Regular	hunting the criminals & sending to trial	to reduce crimes	hand & send		peaceful community	nil
120	Village People Militia	On Going	security for project works					
121	Village Woodlot Management Committee	Regular	patching up	to promote density	nursery, plantation	yearly	not yet	need knives and boots. We have no nursery plants
122	Village Woodlot Management Committee	Regular	protecting the forest	to prevent for wastage	probing the forest	weekly		
123	Village Woodlot Management Committee	Regular	weeding out	to develop forest	cutting wild plants	yearly	complete weeding out work	need knives and boots. We have no nursery plants
124	Village Woodlot Management Committee	On Going	same as regular activities					

Tabl 5.1-10 Previous Accomplishments of Group Works

No.	Village name	Group's name	Previous accomplishments(include CF)	Type	Output	# of Participants	Contribution	Peroid
Thar Yar Kone								
1	Thar Yar Kone	Village Development Committee	liaison with other groups and governing bodies	co-operate				since 1998
2	Thar Yar Kone	Village Development Committee	co-ordination among group members	co-operate				since 1998
3	Thar Yar Kone	UG Management Committee (CF)	CF	cooperative		212	labour	since 1997
4	Thar Yar Kone	UG Management Committee (CF)	the model plot	cooperative	3 acres	75% of members	labour	since 1997
5	Thar Yar Kone	UG Management Committee (CF)	the model conserved forest	cooperative	25 acres	75% of members	labour	since 1997
6	Thar Yar Kone	CF user sub-group .1	planting	cooperative	84 acres	all members	labour	since 1997
7	Thar Yar Kone	CF user sub-group .1	weeding out	cooperative	151 acres			
8	Thar Yar Kone	CF user sub-group .2	planting	cooperative work	40 acres	40		30 years
9	Thar Yar Kone	CF user sub-group .3	weeding out		70.3 acre	8	labour	since 1997
10	Thar Yar Kone	CF user sub-group .3	planting		2 acre	8	labour	since 1997
11	Thar Yar Kone	CF user sub-group .4	Kantpalar Planting 14 acre	corporate	Only 1 acre left due to thorn bushes	7 members	labour	3 year
12	Thar Yar Kone	CF user sub-group .5	weeding-out	cooperative	70 acres completed	20	labour	summer
13	Thar Yar Kone	Christian Trustee Association (Thar Yar Kone)	construction of new church	cooperative	completed	all members	money & labour	8 months
14	Thar Yar Kone	Village Water Supply and Sanitation Committee	distributed latrine pans		Every house received latrine pan	all members and all villagers	labour	1998- 2002
15	Thar Yar Kone	Village Water Supply and Sanitation Committee	dug pond		1 pond	all member and all villager	labour	1997
16	Thar Yar Kone	Village Water Supply and Sanitation Committee	dug tube well		1 tube well	all members and all villagers	labour	1999
17	Thar Yar Kone	Village Water Supply and Sanitation Committee	dug well		1 dug well	all members and all villagers	labour	1998
18	Thar Yar Kone	Farmers Group	helping each other among group members	selling quota rice	land not having rationalized	all members		
19	Thar Yar Kone	Parent Teacher Association	see regular activities					
Nyaung Ta Pin								
20	Nyaung Ta Pin	Village Peace and Development Council	renovation of village road	voluntary	smooth road	all villagers	labour	3-days
21	Nyaung Ta Pin	Village Peace and Development Council	renovation of jetty	voluntary	well condition jetty	all villagers	labour	5-days
22	Nyaung Ta Pin	Mother and Child Care Association	health education	discussion				
23	Nyaung Ta Pin	Primary School Construction Committee	promote the level of education of children		pass 1st standard.	13		up to now
24	Nyaung Ta Pin	Primary School Construction Committee	promote the level of education of children		pass 2nd standard	10	labour	up to now
25	Nyaung Ta Pin	Catholic Christian Trustee (Nyaung Ta Pin)	performed the religion festivals	X-mas, virgin marry	Christians			2001 to now
26	Nyaung Ta Pin	Catholic Christian Trustee (Nyaung Ta Pin)	performed the requirement of Church furniture	furniture	nearly completed	all religion		2001 to now
27	Nyaung Ta Pin	Christian Youth Association	established CF	voluntary labour	CF compartment	all members	labour	2001
28	Nyaung Ta Pin	Christian Youth Association	provision of furniture & requirements	selling rice, buying requirement	Facilities	all members	donated handful of rice	2002
29	Nyaung Ta Pin	Buddhist Trustee	select the ground for monastery			all members		
30	Nyaung Ta Pin	Women Income Generating Group	nursery farm	fire wood	sufficient seedling	20	nursery seeds labour	6/01 - 8/01
31	Nyaung Ta Pin	Union Solidarity and Development Association (USDA)	successfully organized the association					
32	Nyaung Ta Pin	Village Woodlot Management Committee	already completed forest (57.5) acre	labour contribution		23 persons	57.5 acres	4 months
33	Nyaung Ta Pin	Village Woodlot Management Committee	donate cashes that got from UNDP (wages for forest plantation of fire wood) (Christian church, school and VDC construction					

Table 5.1-11 Long-term and Short-term Plans of the Group

No.	Group's name	Type of Plan	Activities	Purpose	Expected Period	Obstacles	Expected Advantage
ar Yar Kone							
1	UG Management Committee (CF)	Long Term	to improve villager's livelihood by conserving the forest	To improve villager's livelihood by conserving the forest			
2	CF user sub-group .6	Long Term	planting, weeding out, selling forest product from weeding	To benefit the posterity			Can benefit if trees are cut and sold at the prescribed growing period of the trees
3	Casual Labour Group	Long Term	not able to answer				
4	Casual Labour Group	Short Term	not able to answer				
5	Farmers Group	Short Term	helping each other among group members]				
6	Parent Teacher Association	Long Term	have an idea for new school construction by asking for donation	to improve children's education	always	poor	more literate. Development of village
7	Parent Teacher Association	Short Term	to come to school regularly	to reduce dropout rate	always	Participation of parents	Reduce dropout rate. More literate
8	Women Religious Golden Association	Short Term	to increase number of members				
Nyaung Ta Pin							
9	Village Peace and Development Council	Long Term	model village	systematic	5 yrs	no	developed village
10	Village Peace and Development Council	Long Term	to improve enrollment	to promote enrollment	5 yrs	no	Educated persons
11	Village Peace and Development Council	Long Term	water supply & sanitation	safety	3 yrs	Lack of fund	improved health
12	Village Peace and Development Council	Short Term	re-forestation	developing	1 yr	less income	good habitats
13	Village Peace and Development Council	Short Term	renovation of school	enrollment advancing	1 yrs	less fund	increased enrollment
14	Village Peace and Development Council	Short Term	to construct monastery	to get at best one Beikku in village	1 yr	no	can worship
15	Village Peace and Development Council	Short Term	tube well drilling	safety	1 yr	lack of fund	safe drinking water
16	Village Peace and Development Council	Long Term	Developed forest	income	5 yrs	no	good habitats
17	Primary School Construction Committee	Long Term	to uplift the school to BEPS	to promote education level	2004 - 05	Shortage of fund	Agencies providing
18	Primary School Construction Committee	Short Term	construction of the school building	to open class room	2002 - 03	shortage of fund	Donation from rich people
19	CF user sub-group .6	Long Term	weeding out 30 acres	To develop	5 yrs	Less income	More income from forest products
20	CF user sub-group .6	Short Term	weeding out 5 acres (each member)	To develop	1 yr	Less income	More income from forest products
21	CF user sub-group .7	Short Term	nursery plantation (5) acres each member	to develop	10 months	less income	to develop
22	CF user sub-group .7	Short Term	patching up	to develop	10 month	Less income	to develop
23	CF user sub-group .7	Short Term	weeding out	to grow	10 month	less income	to develop
24	CF user sub-group .7	Long Term	forest conservation total(35) acres	To develop	5 years	lack of Hand tools	income to get fuel
25	CF user sub-group .8	Short Term	patching up		1acre/yr	boats, boots and less income in implementation period	successful green forest and sufficient pasture
26	CF user sub-group .8	Short Term	weeding out		1acre/yr	boats, boots and less income in implementation period	successful green forest and sufficient pasture
27	CF user sub-group .8	Short Term	weeding up 1 acre/yr			boats, boots and less income in implementation period	successful green forest and sufficient pasture
28	CF user sub-group .9	Long Term	to implement 41 acres (mangrove)		5 yrs		
29	CF user sub-group .9	Short Term	to implement 10 acres (mangrove)		10 month (within)		
30	Catholic Christian Trustee (Nyaung Ta Pin)	Short Term	to collect fund	to held festival, to fulfilling for the requirement of priest	Once a week (Sunday)		to develop religion
31	Catholic Christian Trustee (Nyaung Ta Pin)	Long Term	CF (fuel wood) plantation	to get fund	2001-2003	Carrying the nursery plant (2) weeding out	to build the new church
32	Christian Youth Association	Long Term	renovation of church	better facilities	2-years	Shortage of fund	sustainable
33	Christian Youth Association	Short Term	preparation on ceremony of blessing (quarterly)	Sharing information to each other	3 days	lighting	Good hospitality for visitor/participants
34	Buddhist Trustee	Long Term	to construct Buddhist ordination hall, building for discussion of Dama and nassing for beikkus				
35	Buddhist Trustee	Short Term	to construct new monastery				
36	Women Income Generating Group	Long Term	local trading	IG	3 yrs	Transportation	more profit
37	Women Income Generating Group	Long Term	pig breeding	IG	3 yrs	Animal food	more profit
38	Women Income Generating Group	Short Term	chicken breeding	IG	1 yr	Investment	more profit
39	Casual Labour Group	Long Term	to develop community forest	to get more income for community		no	
40	Casual Labour Group	Short Term	pig firming, catching crab, fishery	to get more income			
41	Village People Militia	Short Term	security				
42	Village Woodlot Management Committee	Short Term	forest 57.5 acres to be developed	to get fire wood, to get income	10 yrs	nil	to get fire wood, to sell extra wood
43	Village Woodlot Management Committee	Long Term	school construction	to develop education	10 yrs	Difficult transport, less income	school children attend in our school
44	Village Woodlot Management Committee	Long Term	water tank	to get clean water	3 yrs	Difficult transport, less income	Good health

Table 5.1-12 Training for Members

No.	Group's name	Level of training	Name	Where	Who conducted	# of participants	Comments
Thar Yar Kone							
1	Village Development Committee	Basic	(1)MFT (2) ENT(3) FSST (4)RHST (5) SB	(1) Shwe Kyun Thar (2) Laputta (3) Laputta (4) Laputta (5) Poe Loung	1 to 4 FD and (5) Dept. of Fisheries	4, 4, 4, 1, 2	gain knowledge
2	Village Development Committee	Advance	(1) MFC (2) BNP	(1) Hmawbi (2) Laputta	Forest Department	2, 2	gain knowledge
3	UG Management Committee (CF)	Basic	Eucalyptus Nursery training, mangrove Nursery training, Mangrove general training, Rice husk stove training, Fuel Saving Stove making Training	Laputta	Forest Department	16	benefited on implementation of CF activities and villagers
4	UG Management Committee (CF)	Advance	Nursery Training	Hmawbi	Forest Department	2	benefited on implementation of CF activities
5	CF user sub-group .1	Advance	Forest Conservation Training	Hmawbi	Forest Department	1	beneficial for all villagers
6	CF user sub-group .1	Basic	(1) Eucalyptus nursery training (2) Mangrove Nursery Training (3) Mangrove general training (4) rice husk stove training		Forest Department	1, 1, 2, 1	not successful in Eucalyptus plantation, most training are beneficial for the group and individual members as well
7	CF user sub-group .2	Basic	Weeding-out training, Multiplier courses of training of fuel saving stove	Chan Thar Kone village	Chairman	1,1	benefited and no problem
8	CF user sub-group .3	Basic	5 kinds of Training & Multiple Courses	Shwe Kone Thar Village; Laputta; Thar Yar Kone Village	Forest Department	10	benefited. Saved seedling, fire wood and money
9	CF user sub-group .4	Basic	Training on Eucalyptus Nursery	Laputta TS	Forest Department	1	gain knowledge but not so much effective
10	CF user sub-group .4	Advance	Study Tour on Forestry	Hmawbi	Forest Department	1	
11	CF user sub-group .5	Basic	(1)Mangrove forest nursery (2) Fertilizer making	(1) Laputta and (2) in Polaung village	Forest Department	1	trainee benefited but not so much effective because members gave priority to livelihood and were not interested in and there was no multiplier training
12	CF user sub-group .5	Advance	Forest Conservation	Hmawbi	Forest Department	1	technology is applicable but there was no multiplier training . So it is not so much effective for other members
13	Christian Trustee Association (Thar Yar Kone)	Basic	Basic religious training	in the village	Christian trustee association	57	gain knowledge for those who want to baptize
14	Association (Thar Yar Kone)	Advance	refresher course	Pathein	Karen Baptist Christian trustee	2	gain more knowledge about the "Bible". Due to lack of traveling expenses, can't participate
15	Village Water Supply and Sanitation Committee	Basic	Water and Sanitation Training	Byu Shwe War Hall, Thar Yar Kone village	HDI WATSAN project	2	benefited, No problem
16	Women Religious Golden Association	Basic	Women affair	church	Divisional Baptist Association, Pathein	25	got knowledge and benefited
Nyaung Ta Pin							
17	Mother and Child Care Association	Basic	Maternity care training (2 times)	Ayataw	Health Department	1 person	using drugs, health care
18	Christian Youth Association	Basic	Religious & social affairs	Aing Ma	The Sea Religious Order	300	strongly religious and gain upgrade moral
19	Casual Labour	Basic	Education & Health Training	Ayataw			

Table 5.1-13 Incentive System in the Year 2002-03

No.	Group's name	Present Condition	Type	Person/ organization who decide the incentive	Problems	Comment of group leader	Does the majority of the members like the incentive	Is the system sustained?	Chance to boost the incentive
Nyang Ta Pin									
1	UG Management Committee (CF)	Management role for CF by the right of individual		Forest Department	no	good	yes	may be	may be
2	CF user sub-group .1	Promote the management role for forest development	to get fire wood by weeding out, Thirty year grants to grow tree for CF	Forest Department	not yet	ownership for CF	yes	may be	may be
3	CF user sub-group .2	FD provided forest compartment to members individually with 30 years right		Forest Department	no	satisfied	yes	may be	sufficient
4	CF user sub-group .5	Promote the management role for forest development	(1) To get fuel wood by weeding out (2) Thirty year grants to grow tree for CF	Forest Department	no	No comment	yes	don't know	don't know
5	CF user sub-group .6	Forest compartment will be provided to members	individually depending on their request and capability		no	satisfied	yes	may be	sufficient
6	CF user sub-group .7		each members get at least 5 acres (right of 30-year grantee	Forest Department	no	satisfied	very much	possible	may be
7	CF user sub-group .8	Production and management of individual mangrove plots	30 yrs lease	TSP forest department	no problem	provided land is good and suitable for Byu plantation	yes	Yes	need, to boost the incentive
8	CF user sub-group .9	production and management of individual mangrove plots	30 yrs lease	TSP forest department	no problem	satisfied	yes	Yes	don't know
9	Village People Militia	Yes	exemption of tax collected by VPDC	VPDC			unknown		
10	Village Woodlot Management Committee	the group in the owner of project	get waged for weeding out by UNDP. Get 2 acre (or) 3 acre per household. Get weeding out fuel & wages from UNDP 10000- each acre	UNDP project	no	good	yes	yes	need to promote the incentive

Table 5.1-14 Linkage with Other Agencies and Villages' Group

No.	Group's name	Link with Agency/group	Name	For what	# of linkages	Result
Thar Yar Kone						
1	Village Development Committee	agencies	all other groups in the village	coordinating and distribution project aided materials	whenever necessary	completed
2	Village Development Committee	Villages' group	Groups in other village	exchanging knowledge & experience	whenever necessary	gain Knowledge
3	Village Development Committee	Villages' group	VPDC	coordination when problem come up	as much as needed	problems resolved
4	Village Development Committee	agencies	Forest Dept.	progress reporting	whenever necessary	FD was informed
5	UG Management Committee (CF)	agencies	Forest Department	to know the rules and direction of forest	whenever necessary	can follow the directions
6	UG Management Committee (CF)	Villages' group	VPDC	to attend the training	as required	
7	CF user sub-group .1	agencies	Forest Department	C/O CF User Management Committee	whenever necessary	
8	CF user sub-group .3	agencies	Forest Department	contract for helping in Forest Rules and Regulation, Technology and training	as necessary	got advices from FD
9	CF user sub-group .3	Villages' group	VPDC	Forest Conservation	as necessary	prohibited Trespassing
10	CF user sub-group .6	agencies	Forest Department	will discuss for the progress of group activities	once a year	can take necessary action
11	CF user sub-group .6	Villages' group	VPDC	if there is any obstacles		
12	Christian Trustee Association (Thar Yar Kone)	Villages' group	Baptized Christian Trustee (Yangon)			knowledge exchange
13	Christian Trustee Association (Thar Yar Kone)	Villages' group	Christian associations at other villages			knowledge exchange
14	Christian Trustee Association (Thar Yar Kone)	agencies	Women's group youth association.		Whenever necessary	
15	Village Water Supply and Sanitation Committee	Villages' group	VPDC	to educate villagers about Water and Sanitation	as necessary	going well
16	Casual Labour Group	agencies	UDC	under control of VDC		
17	Farmers Group	Villages' group	Trade Co-operation	selling quota rice	2 times	completed
18	Parent Teacher Association	Villages' group	Basic Primary School, Chan Thar Kone	asked their help for curriculum and teaching methods	always	Increase pass rate
19	Women Religious Golden Association	agencies	Christian Trustee	controlled	as necessary	
20	Women Religious Golden Association	Villages' group	VPDC		may be	
Nyaung Ta Pin						
21	Village Peace and Development Council	agencies	People's Militia	supporting	if it's required	smooth running
22	Village Peace and Development Council	agencies	USDA	supporting	if it's required	smooth running
23	Village Peace and Development Council	Villages' group	VPDC	instruction & reporting	monthly	smooth regulation
24	Village Peace and Development Council	agencies	Fire Brigade	supporting	if it's required	smooth running
25	Village Peace and Development Council	agencies	MCWA	supporting	if it's required	smooth running
26	Mother and Child Care Association	agencies	UNDP	provided drugs supply programme	1	community know using of drugs and bought easily
27	Mother and Child Care Association	Villages' group	Health Department	Contact Ayataw Health Department	as requirement	feeding vaccine. using drugs
28	Mother and Child Care Association	Villages' group	VPDC	Co-ordinate with Ayataw health department	as requirement	to give knowledge
29	Primary School Construction Committee	Villages' group	Basic Education Middle School (Ayartaw)	Examination for students		attended the exam
30	Primary School Construction Committee	Villages' group	VPDC	Meeting for school building construction	3 time (once a month)	fund raising
31	UG Management Committee (CF)	Villages' group	VPDC	through VPDC		smooth activities
32	UG Management Committee (CF)	agencies	JICA	planning		
33	UG Management Committee (CF)	Villages' group	Forest Department	leading role on CF activities		well organized
34	CF user sub-group .1	agencies	JICA	planning		
35	CF user sub-group .1	Villages' group	Forest Department	leading role on CF activities		well organized
36	CF user sub-group .1	Villages' group	VPDC	permission to establishment		established
37	CF user sub-group .2	Villages' group	Forest Department	held meeting	1	member quota area
38	CF user sub-group .2	Villages' group	VPDC	daily social welfare		
39	CF user sub-group .3	agencies	JICA	planning		
40	CF user sub-group .3	Villages' group	Forest Department	FD leading role on CF activities		well organized
41	CF user sub-group .3	Villages' group	VPDC	communicate with others agencies and group	frequently	
42	CF user sub-group .4	agencies	Forest Department	give Education & Instructions	4	to get knowledge
43	CF user sub-group .4	Villages' group	CFI Management Committee	give Instruction		
44	CF user sub-group .5	Villages' group	Forest Department	leading role on CF activities		well organized
45	CF user sub-group .5	Villages' group	VPDC	permission for establishment		established
46	CF user sub-group .5	agencies	Forest Department	guide line		
47	CF user sub-group .5	agencies	JICA	planning		
48	CF user sub-group .6	Villages' group	Forest Department	meeting for formulation	1	got Forest Compartment
49	CF user sub-group .7	Villages' group	VPDC	invite meeting discussion	2	got permission
50	CF user sub-group .7	agencies	JICA	invite meeting, request priority needs	3- times (within 5-days)	understand program
51	CF user sub-group .7	Villages' group	CFI Management Committee	give instruction	3	cadastral survey. Group formation. Know quota area
52	CF user sub-group .8	agencies	JICA	technologies	make plan	technologies
53	CF user sub-group .8	Villages' group	CFI Management Committee	arrangement	NIL	NIL
54	CF user sub-group .8	Villages' group	VPDC	make arrangement. collect labour	1	NIL
55	CF user sub-group .9	agencies	JICA	CFI activities	3 times	Record land feature. Cadastral survey
56	CF user sub-group .9	Villages' group	Forest Department	forming groups. Cadastral survey	3 times	cadastral survey. soil test
57	Catholic Christian Trustee (Nyaung Ta Pin)	agencies	Christian Youth Association	festivals	5	festival conducted smoothly
58	Catholic Christian Trustee (Nyaung Ta Pin)	agencies	VPDC		5	safe for security
59	Catholic Christian Trustee (Nyaung Ta Pin)	Villages' group	VPDC	for permission to celebrate festival		peaceful collaboration
60	Catholic Christian Trustee (Nyaung Ta Pin)	agencies	Central office (I Ma)	priest trips	12	getting the necessities of priest
61	Catholic Christian Trustee (Nyaung Ta Pin)	agencies	Central office (Pathein)	priest trips	1	clear guide line
62	Christian Youth Association	agencies	Aing Ma	correspondence	3 times	shared
63	Christian Youth Association	agencies	Pein Ne Kone	correspondence	3 times	shared
64	Christian Youth Association	Villages' group	VPDC	discuss the procedure of festivals	3	secured celebration
65	Buddhist Trustee	Villages' group	VPDC	organized to attend meeting	3	labour collection achieved
66	Women Income Generating Group	agencies	UNDP	staffs came & discussed	2 times	suggestion
67	Women Income Generating Group	Villages' group	VPDC	invitation for the meeting	1 time/month	suggestion
68	Casual Labour Group	agencies	UNDP	provided cash contribution for involving funds	2	
69	Casual Labour Group	Villages' group	VPDC	give discussion and advices	monthly	
70	Village People Militia	Villages' group	VPDC	contact VPDC when necessary	once a month regularly and whenever necessary	smooth relation
71	Union Solidarity and Development Association (USDA)	Villages' group	VPDC	discussion once a month		
72	Village Woodlot Management Committee	agencies	UNDP 008 project	provide consultation. Technologies & wages for weeding.	monthly	57.5 acres of forest but not successfully grow
73	Village Woodlot Management Committee	Villages' group	VPDC	give suggestion monthly		

Table 5.2-1 General Household Characteristics

No.	Hhold No	Main Livelihood	Household members			Ethnicity	Religion	Living years	Is this native?	Where did the household immigrate from?		Rice consumption		Water uses	
			Total	Male	Female					Township	Village tract	Source	Means	Source	Means
Thar Yar Kone															
1	1	Casual Labour	3	1	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
2	2	Agriculture	7	3	4	Kayin	Christian	32	Not native village	Laputta	Dani Seik	In the village	Buying	In the village	Self fetching
3	3	Casual Labour	2	1	1	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
4	4	Casual Labour	2	1	1	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
5	5	Casual Labour	5	3	2	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
6	6	Casual Labour	2	1	1	Kayin	Christian	3	Not native village	Laputta	Myit Pauk	In the village	Buying	In the village	Self fetching
7	7	Casual Labour	8	6	2	Kayin	Christian	1	Not native village	Laputta	Myit Pauk	In the village	Buying	In the village	Self fetching
8	8	Agriculture	5	4	1	Kayin	Christian		Native village			Self production	From self production	In the village	Self fetching
9	9	Casual Labour	5	3	2	Myanmar	Christian	1	Not native village	Bogalay	Kayan	In the village	Buying	In the village	Self fetching
10	10	Agriculture	3	2	1	Kayin	Christian		Native village			Self production	From self production	In the village	Self fetching
11	11	Agriculture	3	1	2	Kayin	Christian		Native village			Self production	From self production	In the village	Self fetching
12	12	Casual Labour	5	3	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
13	13	Agriculture	3	2	1	Kayin	Christian		Native village			Self production	Buying	In the village	Self fetching
14	14	Casual Labour	6	3	3	Kayin	Christian	8	Not native village	Malamyainggyun	Kyar Home	In the village	Buying	In the village	Self fetching
15	15	Agriculture	8	5	3	Kayin	Christian		Native village			Thit Poke village	Borrowing from other	In the village	Self fetching
16	16	Casual Labour	5	2	3	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
17	17	Casual Labour	5	1	4	Kayin	Christian	1	Not native village	Laputta	Hlwa Zar	In the village	Buying	In the village	Self fetching
18	18	Agriculture	7	4	3	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
19	19	Agriculture	8	4	4	Kayin	Christian		Native village			Self production	From self production	In the village	Self fetching
20	22	Agriculture	7	4	3	Kayin	Christian		Native village			Self production	From self production	In the village	Self fetching
21	23	Agriculture	6	2	4	Kayin	Christian	7	Not native village	Laputta	Pyinalan	Self production	From self production	In the village	Self fetching
22	24	Agriculture	8	4	4	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
23	25	Casual Labour	3	1	2	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
24	26	Agriculture	2	1	1	Kayin	Christian	20	Not native village	Malamyainggyun	Ja Home	Self production	From self production	In the village	Buying water from tanker boat
25	27	Casual Labour	4	2	2	Kayin	Christian	5	Not native village	Laputta	Pyinalan	In the village	Buying	In the village	Self fetching
26	28	Agriculture	4	1	3	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
27	29	Casual Labour	7	1	6	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
28	30	Casual Labour	1	1	0	Myanmar	Buddhist	16	Not native village	Kwan Gyan Gone	Not mentioned	In the village	Buying	In the village	Other person fetching
29	31	Casual Labour	4	4	0	Myanmar	Buddhist	7 months	Not native village	Malamyainggyun	Phayargyi	In the village	Buying	In the village	Self fetching
30	32	Agriculture	6	2	4	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
31	33	Casual Labour	3	1	2	Kayin	Christian	2	Not native village	Laputta	Pyin Sa Lu	In the village	Buying	In the village	Self fetching
32	34	Casual Labour	3	1	2	Kayin	Christian		Native village			Tenant farmer	From self production	In the village	Self fetching
33	35	Casual Labour	9	4	5	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
34	39	Casual Labour	2	1	1	Kayin	Christian	3	Not native village	Laputta	Pyinalan	Tenant farmer	From self production	In the village	Self fetching
35	40	Agriculture	6	3	3	Kayin	Christian		Native village			Other people	Borrowing from other	In the village	Self fetching
36	41	Agriculture	2	1	1	Kayin	Christian		Native village			Self production	From self production	In the village	Self fetching
37	42	Casual Labour	2	1	1	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
38	43	Casual Labour	2	1	1	Kayin	Christian	3	Not native village	Laputta	Myit Pauk	Self production	From self production	In the village	Self fetching
39	44	Agriculture	6	3	3	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
40	45	Casual Labour	10	7	3	Kayin	Christian	0	Not native village	Laputta	Maung Nge	Thit Poke village	Buying	In the village	Self fetching
41	46	Agriculture	4	3	1	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
42	47	Casual Labour	4	2	2	Others	Christian	10	Not native village	Laputta	Pyinalan	Thit Poke village	Buying	In the village	Self fetching
43	48	Agriculture	8	5	3	Kayin	Christian	55	Not native village	Laputta	Ye Twin Seik	Thit Poke village	Buying	In the village	Self fetching
44	49	Agriculture	4	3	1	Kayin	Christian	53	Not native village	Laputta	Dani Seik	In the village	Buying	In the village	Self fetching
45	50	Casual Labour	2	1	1	Kayin	Christian	15	Not native village	Laputta	Pyinalan	Thit Poke village	Buying	In the village	Self fetching
46	51	Casual Labour	4	1	3	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
47	52	Casual Labour	7	6	1	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
48	53	Casual Labour	9	5	4	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
49	54	Casual Labour	3	2	1	Kayin	Christian	26	Not native village	Laputta	Sar Chat	In the village	Buying	In the village	Self fetching
50	55	Casual Labour	9	5	4	Kayin	Christian	6	Not native village	Laputta	Myit Pauk	Thit Poke village	Buying	In the village	Self fetching
51	56	Agriculture	4	2	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
52	57	Trader	3	2	1	Kayin	Christian	2	Not native village	Laputta	Not mentioned	Thit Poke village	Buying	In the village	Self fetching
53	58	Casual Labour	5	2	3	Kayin	Christian	23	Not native village	Laputta	Myin Kat Seik	In the village	Buying	In the village	Self fetching
54	59	Casual Labour	6	1	5	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
55	60	Casual Labour	7	3	4	Kayin	Christian	1	Not native village	Laputta	Sar Kyin	In the village	Buying	In the village	Self fetching
56	61	Snack sellers (Rice Pancake)	5	3	2	Myanmar	Buddhist	17	Not native village	Pathein	Urban	In the village	Buying	In the village	Self fetching
57	63	Casual Labour	4	2	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
58	64	Casual Labour	9	5	4	Kayin	Christian	41	Not native village	Laputta	Myit Pauk	In the village	Buying	In the village	Self fetching
59	65	Casual Labour	3	2	1	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
60	66	Casual Labour	5	3	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
61	67	Casual Labour	6	1	5	Kayin	Christian		Native village			Chan Thar Kone	Buying	In the village	Self fetching
62	68	Casual Labour	4	3	1	Myanmar	Buddhist	10	Not native village	Laputta	Tha Pyay Kwin	In the village	Buying	In the village	Self fetching
63	69	Casual Labour	7	6	1	Myanmar	Buddhist	32	Not native village	Bogalay	Not mentioned	In the village	Buying	In the village	Self fetching

Table 5.2-1 General Household Characteristics

No.	Hhold No	Main Livelihood	Household members			Ethnicity	Religion	Living years	Is this native?	Where did the household immigrate from?		Rice consumption		Water uses	
			Total	Male	Female					Township	Village tract	Source	Means	Source	Means
64	70	Casual Labour	3	1	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
65	71	Casual Labour	8	6	2	Kayin	Christian	38	Not native village	Laputta	Sar Chat	In the village	Buying	In the village	Self fetching
66	72	Casual Labour	3	1	2	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
67	73	Casual Labour	6	4	2	Kayin	Christian		Native village			Chan Thar Kone	Buying	In the village	Self fetching
68	74	Casual Labour	5	1	4	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
69	75	Casual Labour	4	3	1	Kayin	Christian	0	Not native village	Laputta	Pyin Sa Lu	Thit Poke village	Buying	In the village	Self fetching
70	76	Casual Labour	4	2	2	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
71	77	Casual Labour	4	3	1	Kayin	Christian		Native village			Thit Poke village	Buying	In the village	Self fetching
72	78	Casual Labour	4	3	1	Kayin	Christian	4	Not native village	Laputta	Dani Seik	In the village	Buying	In the village	Self fetching
73	79	Casual Labour	2	1	1	Kayin	Christian		Native village			In the village	Buying	In the village	Self fetching
Nyaung Ta Pin															
74	1	Agriculture	2	2	0	Kayin	Christian	1	Not native village	Laputta	Sar Chat	Self production	From self production	Thit Poke	Self fetching
75	3	Agriculture	7	3	4	Myanmar	Buddhist	35	Not native village	Laputta	Dani Seik	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
76	5	Casual Labour	9	6	3	Myanmar	Buddhist	1	Not native village	Laputta	Bo Kone	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
77	7	Casual Labour	3	1	2	Myanmar	Buddhist	6	Not native village	Laputta	Bo Kone	In the village	Buying	Chan Thar Kone	Self fetching
78	9	Casual Labour	9	3	6	Myanmar	Buddhist	6	Not native village	Laputta	Bo Kone	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
79	11	Dependant	2	0	2	Myanmar	Buddhist	21	Not native village	Bogalay	Bogalay	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
80	13	Casual Labour	4	3	1	Kayin	Christian		Native village			Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
81	15	Casual Labour	4	3	1	Myanmar	Buddhist	1	Not native village	Laputta	Kanyin Kine	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
82	17	Casual Labour	3	1	2	Myanmar	Buddhist	0	Native village			In the village	Buying	In the village	Buying water from tanker boat
83	19	Casual Labour	3	2	1	Myanmar	Buddhist	0	Not native village	Laputta	Sar Chat	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
84	21	Agriculture	8	4	4	Myanmar	Buddhist	23	Not native village	Laputta	Sar Chat	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
85	23	Casual Labour	3	2	1	Myanmar	Buddhist		Native village			In the village	Buying	Chan Thar Kone	Buying water from tanker boat
86	25	Agriculture	2	2	0	Myanmar	Buddhist	32	Not native village	Laputta	Myauk Let Kone	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
87	27	Casual Labour	3	1	2	Myanmar	Buddhist	3	Not native village	Laputta	Urban	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
88	29	Agriculture	7	4	3	Kayin	Christian	35	Not native village	War Khama	Not mentioned	Thit Poke village	Buying	In the village	Buying water from tanker boat
89	31	Prawn,Shop,Agriculture	4	2	2	Kayin	Christian		Native village			Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
90	33	Agriculture,Casual Labour	4	3	1	Kayin	Christian	21	Not native village	Laputta	Bing Daunt Chaung	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
91	35	Casual Labour	7	3	4	Kayin	Christian		Native village			In the village	Buying	Chan Thar Kone	Buying water from tanker boat
92	37	Casual Labour+crabs	4	2	2	Kayin	Christian		Native village			In the village	Buying	Chan Thar Kone	Buying water from tanker boat
93	39	Trader	2	1	1	Kayin	Buddhist	6	Not native village	Malamyainggyun	Hti Seik	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
94	41	Agriculture	6	4	2	Kayin	Christian	35	Not native village	Laputta	Dani Seik	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
95	43	Casual Labour	11	7	4	Kayin	Christian	38	Not native village	Laputta	Dani Seik	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
96	45	Trader	5	4	1	Kayin	Christian	10	Not native village	Laputta	Dani Seik	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
97	47	Trader	7	4	3	Myanmar	Buddhist	0	Not native village	Malamyainggyun	Shout Chaung	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
98	49	Liquor Shop	5	3	2	Myanmar	Buddhist	15	Not native village	Myaung Mya	Do Be Kone	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
99	51	Painter and Handicraft	3	2	1	Myanmar	Buddhist	4	Not native village	War Khama	Lay Kyin	In the village	Buying	In the village	Buying water from tanker boat
100	53	Casual Labour	4	1	3	Kayin	Christian		Native village			In the village	Buying	Chan Thar Kone	Buying water from tanker boat
101	55	Casual Labour	3	2	1	Kayin	Christian	35	Not native village	Laputta	Dani Seik	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
102	57	Casual Labour	2	1	1	Kayin	Christian	18	Not native village	Laputta	Dani Seik	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
103	59	Traditional Practitioner	3	1	2	Myanmar	Buddhist	3	Not native village	Kyone Ma Ngay	Urban	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
104	61	Casual Labour	3	2	1	Myanmar	Buddhist		Native village			In the village	Buying	Chan Thar Kone	Buying water from tanker boat
105	63	Agriculture + Casual Labour	6	5	1	Myanmar	Buddhist	34	Not native village	Bogalay	Myin Ka kone	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
106	65	Crabs catching	3	1	2	Myanmar	Buddhist	10	Not native village	Myaung Mya	Ma Yan Pin	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
107	67	Crabs catching	6	3	3	Myanmar	Buddhist	1	Not native village	Myaung Mya	Not mentioned	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
108	69	Crabs catching	7	2	5	Myanmar	Buddhist	22	Not native village	Laputta	Sar Kyin	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
109	71	Agriculture	2	1	1	Myanmar	Buddhist	24	Not native village	Kyone Ma Ngay	Kyune Pyat Thatt	Thit Poke village	Buying	In the village	Self fetching
110	73	Casual Labour	6	2	4	Kayin	Christian	12	Not native village	Laputta	Pain Ne Kone	In the village	Buying	In the village	Self fetching
111	75	Agriculture	7	3	4	Kayin	Christian	36	Not native village	Laputta	Ye Twin Seik	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
112	77	Agriculture	9	7	2	Myanmar	Buddhist	39	Not native village	Laputta	Not mentioned	Thit Poke village	Buying	Poe Laung village	Buying water from tanker boat
113	79	Casual Labour	7	4	3	Kayin	Buddhist	2 months	Not native village	Laputta	A Law Kyaw	In the village	Buying	In the village	Self fetching
114	81	Casual Labour	4	2	2	Myanmar	Buddhist	6	Not native village	Laputta	Sar Chat	In the village	Buying	In the village	Self fetching
115	83	Casual Labour	5	3	2	Myanmar	Buddhist	1	Not native village	Laputta	Sar Chat	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
116	85	Casual Labour	1	1	0	Kayin	Christian	40	Not native village	Malamyainggyun	Kyat Khin Chaung	In the village	Buying	In the village	Buying water from tanker boat
117	87	Casual Labour	3	2	1	Kayin	Buddhist	4 months	Not native village	Malamyainggyun	Kyat Hlar	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
118	89	Casual Labour	3	2	1	Myanmar	Buddhist	8	Not native village	Laputta	Sar Chat	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
119	91	Casual Labour	4	2	2	Myanmar	Buddhist	5	Not native village	Laputta	Sar Chat	In the village	Buying	Thit Poke village	Buying water from tanker boat
120	93	Casual Labour	2	1	1	Kayin	Christian	5	Not native village	Laputta	Pyinalan	In the village	Buying	In the village	Self fetching
121	95	Casual Labour	9	6	3	Kayin	Buddhist	5	Not native village	Laputta	Kati par	In the village	Buying	In the village	Self fetching
122	97	Casual Labour	6	3	3	Myanmar	Buddhist	18	Not native village	War Khama	Lapan Taung	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
123	99	Agriculture	2	1	1	Myanmar	Buddhist	18	Not native village	Laputta	Urban	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
124	101	Casual Labour	9	4	5	Myanmar	Buddhist	9	Not native village	Laputta	Urban	Thit Poke village	Buying	Chan Thar Kone	Buying water from tanker boat
125	103	Casual Labour	3	1	2	Myanmar	Buddhist	2	Not native village	Laputta	Urban	In the village	Buying	Chan Thar Kone	Buying water from tanker boat
126	105	Casual Labour	5	4	1	Myanmar	Buddhist	2	Not native village	Laputta	Bing Daunt Chaung	Thit Poke village	Buying	Poe Laung village	Buying water from tanker boat

Table 5.2-2 Household Income by Source

No.	HH	Source of Income	Income amount (kyats)
Thar Yar Kone			
1	1	Agri-farming	100,000
2	1	Prawn / shrimp catching	80,000
3	2	Agri-farming	300,000
4	2	Coconut and other garden products selling	140,000
5	2	Timber / bamboo selling	100,000
6	2	Prawn / shrimp catching	200,000
7	4	Crab trapping	120,000
8	4	Pulling out rice seedlings / transplanting / harvesting / threshing	8,000
9	4	Making Nipa thatch / selling	3,000
10	4	Pulling out rice seedlings / transplanting / harvesting / threshing	20,000
11	7	Crab trapping	200,000
12	7	Pulling out rice seedlings / transplanting / harvesting / threshing	35,000
13	7	Pulling out rice seedlings / transplanting / harvesting / threshing	35,000
14	9	Pulling out rice seedlings / transplanting / harvesting / threshing	6,000
15	9	Pulling out rice seedlings / transplanting / harvesting / threshing	80,000
16	9	Crab trapping	160,000
17	9	Earth working	24,000
18	3	Crab trapping	225,000
19	3	Fire wood selling	90,000
20	3	Crab trading	10,000
21	5	Crab trapping	160,000
22	5	Pulling out rice seedlings / transplanting / harvesting / threshing	40,000
23	6	Crab trapping	72,000
24	6	Pulling out rice seedlings / transplanting / harvesting / threshing	14,000
25	6	Teacher	70,000
26	8	Agri-farming	280,000
27	8	Crab trapping	40,000
28	10	Agri-farming	67,500
29	10	Crab trapping	50,000
30	11	Agri-farming	280,000
31	11	Crab trapping	27,000
32	11	Coconut and other garden products selling	6,000
33	12	Crab trapping	72,000
34	12	Pulling out rice seedlings / transplanting / harvesting / threshing	11,000
35	12	Other casual	182,500
36	13	Agri-farming	201,000
37	13	Crab trapping	20,000
38	14	Fishing	50,000
39	14	Earth working	20,000
40	14	Crab trapping	10,000
41	14	Pulling out rice seedlings / transplanting / harvesting / threshing	10,000
42	14	Pulling out rice seedlings / transplanting / harvesting / threshing	5,000
43	14	Cutting tree / forest cleaning	45,000
44	15	Agri-farming	33,000
45	15	Boat building	200,000
46	15	Crab trapping	180,000
47	16	Pulling out rice seedlings / transplanting / harvesting / threshing	140,000
48	16	Crab trapping	50,000
49	17	Crab trapping	56,000
50	17	Pulling out rice seedlings / transplanting / harvesting / threshing	500
51	17	Pulling out rice seedlings / transplanting / harvesting / threshing	180,000
52	18	Agri-farming	1,000,000
53	19	Agri-farming	470,400
54	19	Crab trapping	85,000
55	19	Coconut and other garden products selling	15,000
56	22	Agri-farming	60,000
57	22	Coconut and other garden products selling	84,000
58	22	Crab trapping	60,000
59	23	Agri-farming	38,000
60	23	Crab trapping	49,000
61	24	Crab trapping	54,000
62	24	Coconut and other garden products selling	126,000
63	24	Coconut and other garden products selling	9,000
64	24	Coconut and other garden products selling	1,000
65	25	Crab trapping	60,000
66	25	Pulling out rice seedlings / transplanting / harvesting / threshing	10,000
67	25	Pulling out rice seedlings / transplanting / harvesting / threshing	10,000
68	26	Agri-farming	50,000
69	26	Coconut and other garden products selling	84,000
70	26	Crab trapping	6,000
71	27	Crab trapping	180,000
72	27	Earth working	90,000
73	27	Pulling out rice seedlings / transplanting / harvesting / threshing	48,000
74	27	Pulling out rice seedlings / transplanting / harvesting / threshing	7,500
75	28	Fishing	220,000
76	29	Crab trapping	150,000
77	29	Pulling out rice seedlings / transplanting / harvesting / threshing	10,000
78	29	Pulling out rice seedlings / transplanting / harvesting / threshing	40,000
79	30	Guarding / farm watching	36,000
80	31	Agri-farming	45,000
81	31	Crab trapping	35,000
82	32	Agri-farming	318,000
83	33	Crab trapping	60,000
84	33	Pulling out rice seedlings / transplanting / harvesting / threshing	5,000
85	33	Boat building	12,000
86	33	Cutting tree / forest cleaning	12,000

Table 5.2-2 Household Income by Source

No.	HH	Source of Income	Income amount (kyats)
87	34	Coconut and other garden products selling	42,000
88	34	Pulling out rice seedlings / transplanting / harvesting / threshing	36,000
89	34	Crab trapping	12,000
90	35	Pulling out rice seedlings / transplanting / harvesting / threshing	4,000
91	35	Crab trapping	144,000
92	35	Coconut and other garden products selling	15,000
93	35	Timber / bamboo selling	4,000
94	35	Selling food in the village	10,000
95	35	Making Nipa thatch / selling	12,000
96	39	Pulling out rice seedlings / transplanting / harvesting / threshing	9,500
97	39	Crab trapping	70,000
98	40	Pulling out rice seedlings / transplanting / harvesting / threshing	14,400
99	40	Crab trapping	82,400
100	40	Cutting tree / forest cleaning	100,000
101	41	Agri-farming	52,500
102	41	Crab trapping	75,000
103	41	Grocery	25,000
104	41	Coconut and other garden products selling	4,500
105	42	Crab trapping	100,000
106	42	Earth working	25,000
107	42	Pulling out rice seedlings / transplanting / harvesting / threshing	12,000
108	43	Crab trapping	30,000
109	43	Agri-farming	100,000
110	44	Fishing	250,000
111	44	Coconut and other garden products selling	60,000
112	44	Cutting tree / forest cleaning	100,000
113	45	Earth working	70,000
114	45	Crab trapping	30,000
115	45	Pulling out rice seedlings / transplanting / harvesting / threshing	30,000
116	46	Coconut and other garden products selling	60,000
117	46	Crab trapping	24,000
118	46	Cutting tree / forest cleaning	60,000
119	47	Making Nipa thatch / selling	50,000
120	47	Crab trapping	80,000
121	48	Coconut and other garden products selling	240,000
122	48	Crab trapping	120,000
123	48	Other casual	20,000
124	49	Coconut and other garden products selling	90,000
125	49	Coconut and other garden products selling	4,000
126	49	Pulling out rice seedlings / transplanting / harvesting / threshing	12,500
127	49	Earth working	10,000
128	50	Crab trapping	30,000
129	50	Pulling out rice seedlings / transplanting / harvesting / threshing	109,000
130	51	Crab trapping	200,000
131	51	Crab trading	250,000
132	52	Coconut and other garden products selling	10,000
133	52	Crab trapping	300,000
134	53	Crab trapping	220,000
135	53	Coconut and other garden products selling	45,000
136	53	Cutting tree / forest cleaning	80,000
137	54	Pulling out rice seedlings / transplanting / harvesting / threshing	67,000
138	54	Earth working	50,000
139	54	Coconut and other garden products selling	36,000
140	54	Crab trapping	115,200
141	55	Crab trapping	450,000
142	55	Earth working	6,000
143	55	Pulling out rice seedlings / transplanting / harvesting / threshing	32,000
144	55	Pulling out rice seedlings / transplanting / harvesting / threshing	20,000
145	56	Crab trapping	96,000
146	56	Prawn / shrimp catching	30,000
147	56	Coconut and other garden products selling	60,000
148	56	Livestock breeding	43,000
149	56	Fire wood selling	80,000
150	57	Pulling out rice seedlings / transplanting / harvesting / threshing	54,000
151	57	Coconut and other garden products selling	24,000
152	57	Livestock breeding	72,000
153	58	Crab trapping	100,000
154	58	Pulling out rice seedlings / transplanting / harvesting / threshing	9,000
155	58	Pulling out rice seedlings / transplanting / harvesting / threshing	5,000
156	58	Cutting tree / forest cleaning	21,000
157	59	Pulling out rice seedlings / transplanting / harvesting / threshing	5,000
158	59	Pulling out rice seedlings / transplanting / harvesting / threshing	500
159	59	Cutting tree / forest cleaning	10,000
160	59	Agri-farming	30,000
161	60	Crab trapping	120,000
162	60	Cutting tree / forest cleaning	30,000
163	61	Selling food in the village	90,000
164	61	Crab trapping	120,000
165	61	Coconut and other garden products selling	5,600
166	63	Earth working	200,000
167	63	Coconut and other garden products selling	12,000
168	63	Pulling out rice seedlings / transplanting / harvesting / threshing	10,000
169	64	Crab trapping	160,000
170	64	Pulling out rice seedlings / transplanting / harvesting / threshing	4,000
171	64	Pulling out rice seedlings / transplanting / harvesting / threshing	4,000
172	64	Cutting tree / forest cleaning	50,000
173	65	Earth working	72,048

Table 5.2-2 Household Income by Source

No.	HH	Source of Income	Income amount (kyats)
174	65	Crab trapping	72,000
175	65	Cutting tree / forest cleaning	30,000
176	66	Crab trapping	90,000
177	66	Pulling out rice seedlings / transplanting / harvesting / threshing	45,000
178	67	Crab trapping	168,000
179	67	Coconut and other garden products selling	75,600
180	67	Livestock breeding	13,000
181	68	Crab trapping	150,000
182	68	Coconut and other garden products selling	24,000
183	68	Cutting tree / forest cleaning	40,000
184	68	Earth working	4,000
185	68	Selling food in the village	30,000
186	69	Crab trapping	270,000
187	69	Pulling out rice seedlings / transplanting / harvesting / threshing	15,000
188	69	Earth working	72,000
189	70	Crab trapping	36,000
190	70	Earth working	144,000
191	70	Cutting tree / forest cleaning	12,500
192	71	Crab trapping	500,000
193	71	Prawn / shrimp catching	450,000
194	72	Crab trapping	160,000
195	72	Pulling out rice seedlings / transplanting / harvesting / threshing	50,000
196	72	Pulling out rice seedlings / transplanting / harvesting / threshing	45,000
197	73	Crab trapping	58,000
198	73	Pulling out rice seedlings / transplanting / harvesting / threshing	8,000
199	73	Earth working	20,000
200	73	Cutting tree / forest cleaning	66,000
201	73	Coconut and other garden products selling	2,500
202	73	Prawn / shrimp catching	150,000
203	73	Coconut and other garden products selling	12,000
204	74	Crab trapping	190,000
205	74	Pulling out rice seedlings / transplanting / harvesting / threshing	10,000
206	74	Earth working	5,000
207	74	Fishing	15,000
208	74	Making Nipa thatch / selling	10,000
209	74	Fire wood selling	10,000
210	74	Prawn / shrimp catching	30,000
211	74	Coconut and other garden products selling	3,000
212	75	Fishing	8,000
213	75	Earth working	12,000
214	75	Crab trapping	4,800
215	76	Crab trading	180,000
216	76	Prawn trading	50,000
217	76	Crab trapping	12,000
218	76	Grocery	12,000
219	77	Crab trapping	150,000
220	78	Crab trapping	160,000
221	78	Cutting tree / forest cleaning	50,000
222	79	Crab trapping	200
223	79	Pulling out rice seedlings / transplanting / harvesting / threshing	42,000
224	79	Prawn / shrimp catching	60,000
Nyaung Ta Pin			
225	1	Agri-farming	72,000
226	1	Crab trapping	36,000
227	3	Crab trapping	150,000
228	3	Coconut and other garden products selling	33,750
229	5	Crab trapping	480,000
230	5	Searching large golden brown grub (Thinbaung worms) (Eatable)	50,000
231	7	Crab trapping	180,000
232	9	Crab trapping	500,000
233	11	Coconut and other garden products selling	120,000
234	13	Crab trapping	60,000
235	13	Grocery	50,000
236	13	Coconut and other garden products selling	120,000
237	13	Boat hiring	96,000
238	15	Fishing	350,000
239	17	Crab trapping	360,000
240	19	Fishing	432,000
241	21	Coconut and other garden products selling	200,000
242	21	Crab trapping	220,000
243	21	Making Nipa thatch / selling	50,000
244	23	Crab trapping	200,000
245	23	Making Nipa thatch / selling	100,000
246	25	Coconut and other garden products selling	105,000
247	25	Fishing	144,000
248	25	Making Nipa thatch / selling	45,000
249	27	Crab trapping	200,000
250	29	Agri-farming	1,540,000
251	29	Coconut and other garden products selling	252,000
252	29	Prawn / shrimp catching	200,000
253	29	Crab trapping	100,000
254	29	Making Nipa thatch / selling	135,000
255	31	Crab trading	360,000
256	31	Grocery	360,000
257	31	Coconut and other garden products selling	210,000
258	33	Crab trapping	240,000
259	33	Coconut and other garden products selling	140,000

Table 5.2-2 Household Income by Source

No.	HH	Source of Income	Income amount (kyats)
260	35	Crab trapping	240,000
261	35	Boat building	15,000
262	37	Crab trapping	180,000
263	37	Fire wood selling	30,000
264	39	Crab trading	48,000
265	39	Food staff for crabs production	12,000
266	39	Grocery	40,000
267	41	Coconut and other garden products selling	230,000
268	41	Crab trapping	252,000
269	41	Carpenter	60,000
270	43	Crab trapping	84,000
271	43	Searching large golden brown grub (Thinbaung worms) (Eatable)	80,000
272	43	Other casual	70,000
273	45	Crab trading	500,000
274	45	Grocery	300,000
275	47	Crab trading	360,000
276	49	Liquor selling	20,000
277	49	Grocery	18,000
278	49	Other casual	90,000
279	51	Selling food in the village	200,000
280	51	Crab trapping	48,000
281	53	Prawn / shrimp catching	200,000
282	53	Other casual	40,000
283	55	Making Nipa thatch / selling	80,000
284	55	Cutting tree / forest cleaning	42,000
285	57	Crab cage making	162,000
286	57	Cutting tree / forest cleaning	60,000
287	59	Medical care (Traditional)	100,000
288	59	Prawn / shrimp catching	50,000
289	61	Crab trapping	162,000
290	61	Cutting tree / forest cleaning	50,000
291	63	Coconut and other garden products selling	150,000
292	63	Crab trapping	90,000
293	63	Grocery	60,000
294	65	Crab trapping	202,500
295	67	Crab trapping	216,000
296	69	Crab trapping	216,000
297	69	Fishing	36,000
298	71	Coconut and other garden products selling	80,000
299	71	Making Nipa thatch / selling	45,000
300	73	Crab trapping	180,000
301	75	Coconut and other garden products selling	210,000
302	75	Coconut and other garden products selling	100,000
303	75	Cattle hiring	80,000
304	75	Prawn / shrimp catching	100,000
305	77	Prawn / shrimp catching	300,000
306	77	Coconut and other garden products selling	210,000
307	79	Crab trapping	300,000
308	81	Crab trapping	140,000
309	83	Crab trapping	120,000
310	85	Crab trapping	90,000
311	87	Crab trapping	225,000
312	89	Crab trapping	160,000
313	91	Crab trapping	190,000
314	93	Crab trapping	48,000
315	93	Other casual	12,000
316	95	Crab trapping	100,000
317	95	Other casual	50,000
318	97	Crab trapping	230,000
319	99	Crab trading	360,000
320	99	Prawn / shrimp catching	80,000
321	99	Agri-farming	40,000
322	99	Livestock breeding	150,000
323	101	Crab trapping	480,000
324	103	Crab trapping	144,000
325	103	Fishing	8,000
326	103	Searching large golden brown grub (Thinbaung worms) (Eatable)	7,500
327	105	Crab trapping	240,000

Table 5.2-3 Important Persons in the Village

No.	HH	Order of Important	Name of the important person	Reason	Relationship
Thar Yar Kone					
1	1	1	Saw John Son	For livelihood improvement	Parents
2	1	2	Naw Lay Ar	For health purpose	Other relatives
3	1	3	Saw Lai Say	For livelihood improvement	Other relatives
4	1	4	U Soe Khin	For health purpose	Other relatives
5	1	5	U Kyi Win	For health purpose	Other relatives
6	4	1	U Saw Lwin	For health purpose	Head of household
7	4	2	U Kyi Win	For health purpose	Other relatives
8	4	3	U Saw Htoo Lai	For health purpose	Other relatives
9	4	4	U Saw Joe San Yel	For money matters / investment	Sibling (brother and sister)
10	7	1	U Saw Lai Say	For livelihood improvement	No Relationship
11	7	2	U Saw Denial	For livelihood improvement	No Relationship
12	7	3	U Saw Htoo Say	For livelihood improvement	No Relationship
13	9	1	U Kyi Win	For advice, directions and education for the job	No Relationship
14	9	2	Daw Sel Lar	For livelihood improvement	Parent-in-law
15	9	3	U Saw Lai Say	For livelihood improvement	Son-in-law / daughter-in-law
16	3	1	U Saw Johnson	For livelihood improvement	Parents
17	5	1	U Kyi Win	For livelihood improvement	Sibling (brother and sister)
18	5	2	U Ngwe Hla	For livelihood improvement	Other relatives
19	6	1	U Ngwe Hla	For livelihood improvement	No Relationship
20	6	2	U Saw Lwin	For livelihood improvement	Other relatives
21	8	1	All villagers	For health purpose	Other relatives
22	8	2	All villagers	For livelihood improvement	Other relatives
23	10	1	U Saw Htoo Say	For money matters / investment	Sibling (brother and sister)
24	10	2	U Saw Lai Say	To get a chance for livelihood	Sibling (brother and sister)
25	10	3	U Saw Lwin	To get a chance for livelihood	Parent-in-law
26	11	1	U Aung Mya Sein	For livelihood improvement	Grand children
27	11	2	U Lai Say	For livelihood improvement	Other relatives
28	11	3	U Kyi Win	For health purpose	Other relatives
29	12	1	U Lai Say	To get a chance for livelihood	No Relationship
30	12	2	U Kyar Aye	For livelihood improvement	Other relatives
31	13	1	U Lai Say	For livelihood improvement	Other relatives
32	13	2	U John Son	For advice, directions and education for the job	Other relatives
33	13	3	U Kyi Win	To get a chance for livelihood	Other relatives
34	15	1	U Saw Lai Say	For money matters / investment	Other relatives
35	15	2	U Saw Lai	For money matters / investment	Other relatives
36	15	3	U Saw Ngwe Hla	For money matters / investment	Sibling (brother and sister)
37	15	4	U Saw Htoo Say	For livelihood improvement	Other relatives
38	16	1	U Saw Htoo Palai	For money matters / investment	Other relatives
39	17	1	U Saw Htoo Palai	For money matters / investment	Other relatives
40	18	1	U Kauk Yoe	For health purpose	No Relationship
41	18	2	U Kyi Win	For health purpose	Sibling (brother and sister)
42	18	3	Daw Pain	For health purpose	Other relatives
43	19	1	Relatives	For livelihood improvement	Other relatives
44	22	1	U Lai Say	For money matters / investment	Other relatives
45	22	2	U Htoo Palai	Helping in selling out quota paddy to government purchasing depot	Other relatives
46	22	3	U Ngwe Hla	For money matters / investment	Other relatives
47	23	1	U Saw Lai Say	For livelihood improvement	Other relatives
48	23	2	U Khin Back	For livelihood improvement	Other relatives
49	23	3	U Kyi Win	For health purpose	Other relatives
50	24	1	U Zaw Win	For money matters / investment	No Relationship
51	24	2	U Kyi Win	For health purpose	No Relationship
52	24	3	U Lai Say	For livelihood improvement	No Relationship
53	25	1	U Aung Mya Sein	For livelihood improvement	Parents
54	25	2	U Kyi Win	For health purpose	No Relationship
55	25	3	U Lai Say	For livelihood improvement	No Relationship
56	26	1	U Saw Lai Say	For livelihood improvement	No Relationship
57	27	1	U Kyi Win	For health purpose	Other relatives
58	27	2	Daw Pwar Lay	For health purpose	Head of household
59	28	1	U Saw Roger	For livelihood improvement	Parents
60	30	1	U Mann Sauk	To get a chance for livelihood	No Relationship
61	31	1	U Pho Tawt	For livelihood improvement	No Relationship
62	32	1	U Ngwe Hla	For money matters / investment	Sibling (brother and sister)
63	33	1	Daw Sel Lar	For livelihood improvement	Parent-in-law
64	33	2	U Kyi Win	For health purpose	Other relatives
65	34	1	U Kyi Win	For health purpose	Sibling (brother and sister)
66	34	2	U Saw Lai Say	For livelihood improvement	Other relatives
67	34	3	U Saw Johnson	For money matters / investment	No Relationship
68	35	1	U Kyi Win	For health purpose	No Relationship
69	39	1	Daw Lay Bon	For livelihood improvement	Son-in-law / daughter-in-law

Table 5.2-3 Important Persons in the Village

No.	HH	Order of Important	Name of the important person	Reason	Relationship
70	40	1	U Ngwe Hla	For livelihood improvement	Sibling (brother and sister)
71	42	1	U Thar Htoo	For livelihood improvement	Head of household
72	42	2	Daw San San Maw	For livelihood improvement	Sibling (brother and sister)
73	43	1	U Ngwe Hla	For livelihood improvement	No Relationship
74	44	1	U Soe Khin	For livelihood improvement	Parents
75	44	2	Daw Pain	For health purpose	No Relationship
76	45	1	U Soe Khin	To get a chance for livelihood	Other relatives
77	46	1	U Saw Htoo Say	For livelihood improvement	Other relatives
78	46	2	U Zaw Win	For livelihood improvement	No Relationship
79	47	1	U Soe Khin	For livelihood improvement	Other relatives
80	47	2	Daw Phee Pain	For health purpose	No Relationship
81	48	1	U Saw Johnson	For advice, directions and education for the job	Parent-in-law
82	48	2	U Saw Lai Htoo	For advice, directions and education for the job	Other relatives
83	49	1	Daw Phee Pain	For health purpose	Other relatives
84	49	2	U Kyi Win	For health purpose	Sibling (brother and sister)
85	49	3	U Zaw Win	For health purpose	No Relationship
86	50	1	U Aye Thar	For livelihood improvement	Other relatives
87	50	2	U Saw Lai Say	For livelihood improvement	No Relationship
88	50	3	U Kyi Wiin	For health purpose	No Relationship
89	51	1	U Kyaw Khin	For livelihood improvement	Parent-in-law
90	51	2	Daw Yee Nar	For livelihood improvement	Parents
91	52	1	U Soe Khin	For livelihood improvement	Parents
92	53	1	Relatives	For livelihood improvement	Other relatives
93	53	2	Saw Sir Ei Saw	For livelihood improvement	Son / daughter
94	55	1	U Aye Thar	For livelihood improvement	No Relationship
95	55	2	U Kyi Win	For health purpose	No Relationship
96	56	1	All my relatives	For livelihood improvement	Other relatives
97	57	1	U Aye Thar	For money matters / investment	Other relatives
98	58	1	U Lar Pwe	For livelihood improvement	Other relatives
99	58	2	U Kyi Win	For health purpose	No Relationship
100	58	3	U Saw Htoo Say	For livelihood improvement	No Relationship
101	59	1	U Saw Sar War	For livelihood improvement	Son / daughter
102	59	2	U Myint Aung	For livelihood improvement	Son-in-law / daughter-in-law
103	59	3	U Peter Byu	For livelihood improvement	Sibling (brother and sister)
104	60	1	U Saw Boe Yar	For livelihood improvement	Head of household
105	60	2	U Saw lar Mo	For livelihood improvement	Other relatives
106	60	3	Daw Pain	For health purpose	Other relatives
107	61	1	U Win Naing	For livelihood improvement	Other relatives
108	61	2	U Gyaw Lai	For health purpose	No Relationship
109	61	3	Daw Mayri Htun	For livelihood improvement	No Relationship
110	61	4	U Myint Naing	For livelihood improvement	Sibling (brother and sister)
111	63	1	U Kyi Win	Help out to finish the work	Other relatives
112	64	1	U Saw Lar Pwe	For livelihood improvement	Other relatives
113	64	2	U Saw Boe Yar	For livelihood improvement	Parents
114	64	3	U Saw Lai Say	For livelihood improvement	Other relatives
115	65	1	U Saw Lai Say	For livelihood improvement	No Relationship
116	65	2	U Saw Lwin	For livelihood improvement	No Relationship
117	65	3	U Saw Htoo Say	For livelihood improvement	No Relationship
118	66	1	U Lar Pwe	For money matters / investment	Sibling (brother and sister)
119	66	2	U Shee Moe	For money matters / investment	Sibling (brother and sister)
120	66	2	U Shee Moe	For money matters / investment	Sibling (brother and sister)
121	67	1	Daw Kyin Phoe	For health purpose	No Relationship
122	67	2	Daw Ree Nar	For health purpose	No Relationship
123	68	1	U Saw Htoo Say	For livelihood improvement	No Relationship
124	70	1	U Sein Maung	For health purpose	Parents
125	71	1	U Saw Htoo Say	For livelihood improvement	Other relatives
126	71	2	U Ngwe Hla	For livelihood improvement	Sibling (brother and sister)
127	71	3	U Saw Do Faw	Help out to finish the work	Son / daughter
128	72	1	U Ngwe Hla	For livelihood improvement	Sibling (brother and sister)
129	73	1	U Nelson	For advice, directions and education for the job	Sibling (brother and sister)
130	74	1	U Lar Bwe	For livelihood improvement	Sibling (brother and sister)
131	74	2	Father	For livelihood improvement	Parents
132	76	1	U Lar Sat	For health purpose	Sibling (brother and sister)
133	76	2	U View Dae	For health purpose	Sibling (brother and sister)
134	76	3	Crab Merchant	For livelihood improvement	No Relationship
135	77	1	U Lar Pwe	For livelihood improvement	Parents
136	77	2	U Lai Say	For livelihood improvement	Sibling (brother and sister)
137	77	3	U Kyi Win	For health purpose	Sibling (brother and sister)
138	78	1	U Saw Lar Pwe	For livelihood improvement	Sibling (brother and sister)
139	78	2	U Saw Lar Sat	For livelihood improvement	Sibling (brother and sister)
140	79	1	U Kyi Win	For health purpose	No Relationship
141	79	2	U Saw Al Kalai	For livelihood improvement	Spouse
142	79	2	U Saw Peta Byue	For livelihood improvement	Sibling (brother and sister)

Table 5.2-3 Important Persons in the Village

No.	HH	Order of Important	Name of the important person	Reason	Relationship
Nyaung Ta Pin					
143	1	1	U Thant Zin Oo	For money matters / investment	Sibling (brother and sister)
144	1	2	U Nyein Chan	For money matters / investment	Other relatives
145	1	3	U Hla Myint	For livelihood improvement	No Relationship
146	3	1	U Sein Myint	For money matters / investment	Sibling (brother and sister)
147	3	2	U Hla Kyaing	For money matters / investment	Sibling (brother and sister)
148	5	1	U Chit Shwe	For livelihood improvement	Sibling (brother and sister)
149	5	2	U Chit Sein	For livelihood improvement	Sibling (brother and sister)
150	5	3	U Hla Aung	For livelihood improvement	Parents
151	7	1	U Hla Nyein	For livelihood improvement	Parents
152	9	1	U Thein Soe	Help out to finish the work	Other relatives
153	11	1	Maung Thein Soe	For livelihood improvement	Son / daughter
154	13	1	Daw Tin	For livelihood improvement	Grand children
155	17	1	Daw Hla Yee	For livelihood improvement	Sibling (brother and sister)
156	19	1	U Hla Kyaing	For livelihood improvement	Other relatives
157	21	1	Ko Soe Lwin	For money matters / investment	No Relationship
158	21	2	Ko Win Kyaw	For money matters / investment	No Relationship
159	23	1	U Hla Kyaing	For livelihood improvement	Other relatives
160	25	1	U Chit Hlaing	For livelihood improvement	Sibling (brother and sister)
161	29	1	U Kan Myint	For health purpose	No Relationship
162	31	1	Daw Tin	For livelihood improvement	Other relatives
163	35	1	U Mann Win	For livelihood improvement	Sibling (brother and sister)
164	37	1	U Mann Tu	For money matters / investment	Parents
165	39	1	U Jue	For livelihood improvement	No Relationship
166	39	2	U Mann Tu	For livelihood improvement	No Relationship
167	39	3	U Tun Nyein	For livelihood improvement	No Relationship
168	41	1	U Win Kyaw	For money matters / investment	No Relationship
169	41	2	U Sein Oo	For livelihood improvement	No Relationship
170	43	1	Ko Nyein Chan	For livelihood improvement	Other relatives
171	43	2	U Kyin Thien	For livelihood improvement	Other relatives
172	43	3	U Win	For livelihood improvement	Sibling (brother and sister)
173	45	1	U Chit Hlaing	For livelihood improvement	No Relationship
174	45	2	U Than Aung	For livelihood improvement	No Relationship
175	45	3	U Mann Win	For livelihood improvement	No Relationship
176	45	4	U Net	For livelihood improvement	Other relatives
177	47	1	U Chit Hlaing	For livelihood improvement	No Relationship
178	47	2	U Tin Hla	For livelihood improvement	No Relationship
179	47	3	U Kyi Myint	For livelihood improvement	Parents
180	49	1	U Nyunt Tin	For livelihood improvement	Parent-in-law
181	49	2	Daw Khin Toat	For livelihood improvement	Parents
182	49	3	Daw Khin Mar Kyi	For livelihood improvement	Sibling (brother and sister)
183	51	1	U Chit Hlaing	For livelihood improvement	No Relationship
184	51	2	U Yaw Han	For livelihood improvement	No Relationship
185	51	3	U Kan Myint	For health purpose	No Relationship
186	53	1	U Tun Nyein	For livelihood improvement	Parents
187	53	2	Ma Thida	For livelihood improvement	Spouse
188	55	1	U Win	For money matters / investment	Other relatives
189	57	1	Daw Jue	For money matters / investment	Parents
190	59	1	U Chit Hlaing	For livelihood improvement	No Relationship
191	61	1	Ko Nyein Chan	For livelihood improvement	Other relatives
192	61	2	Daw Me Thet	For livelihood improvement	Other relatives
193	63	1	U Chit Hlaing	For livelihood improvement	No Relationship
194	63	2	U Nyein Chan	For livelihood improvement	No Relationship
195	63	3	U Yaw Han	For livelihood improvement	No Relationship
196	65	1	U Nyein Chan	For money matters / investment	No Relationship
197	65	2	Daw Me Si	For livelihood improvement	Spouse
198	67	1	Daw Pon	For livelihood improvement	No Relationship
199	67	2	Maung Aung Myo	Help out to finish the work	Son / daughter
200	69	1	U Chit Hlaing	For money matters / investment	Parent-in-law
201	71	1	U Khin Maung Hla	For livelihood improvement	Son / daughter
202	71	2	U Chit Hlaing	For livelihood improvement	No Relationship
203	73	1	U Chit Hlaing	For money matters / investment	Other relatives
204	73	2	U Hla Myint	For money matters / investment	Other relatives
205	73	3	Daw Htwe Sein	For money matters / investment	Other relatives
206	75	1	U Chit Hlaing	For livelihood improvement	No Relationship
207	75	2	U Than Aung	For livelihood improvement	No Relationship
208	75	3	U Sein Oo	For livelihood improvement	No Relationship
209	75	4	U Tun Nyein	For livelihood improvement	No Relationship
210	75	5	U Mann Tu	For livelihood improvement	No Relationship
211	77	1	U Hla Myint	For livelihood improvement	Son / daughter
212	77	2	U Win	For livelihood improvement	No Relationship
213	79	1	U Myint Oo	For money matters / investment	No Relationship

Table 5.2-3 Important Persons in the Village

No.	HH	Order of Important	Name of the important person	Reason	Relationship
214	81	1	U Myint Oo	Help out to finish the work	No Relationship
215	83	1	U Myint Oo	Help out to finish the work	No Relationship
216	85	1	U Myint Oo	For livelihood improvement	Other relatives
217	85	2	U Win Naing	For money matters / investment	No Relationship
218	85	3	U Akhat	For livelihood improvement	Son / daughter
219	87	1	U Myint Oo	For money matters / investment	No Relationship
220	89	1	U Myint Oo	For livelihood improvement	No Relationship
221	91	1	U Myint Oo	For livelihood improvement	Other relatives
222	93	1	U Mann Ta Yoat	For livelihood improvement	Parents
223	93	2	Naw Pai Lar	For livelihood improvement	Parents
224	95	1	U Myint Oo	For livelihood improvement	No Relationship
225	95	2	U Mann Ne	For livelihood improvement	No Relationship
226	97	1	U Tin Oo	For money matters / investment	No Relationship
227	99	1	U Hla Than	For livelihood improvement	No Relationship
228	99	2	U Ye	For livelihood improvement	No Relationship
229	99	3	U Aye Hlaing	For livelihood improvement	No Relationship
230	103	1	U Hla Than	For livelihood improvement	No Relationship
231	103	2	U Ye	For livelihood improvement	No Relationship
232	105	1	U Hla Than	For money matters / investment	No Relationship
233	105	2	U Thein Shwe	For money matters / investment	Other relatives

Table 5.2-4 Persons Close to the Household

No.	Hhold No	Serial No.	Name of closed person	Relationship	Purpose	Type of cooperation	Reason of cooperation
Thar Yar Kone							
1	1	1	Saw John Son	Parents	To get help to finish the work on time	Employer and employee	Help out to finish the work
2	2	1	U Saw Lai Say	No Relationship	To be able to sell the quota paddy	Mutual helping	Helping in selling out quota paddy to government purchasing depot
3	4	1	U Saw Joe San Yel	Sibling (brother and sister)	To get help to finish the work on time	Employer and employee	Help out to finish the work
4	7	1	U Saw Lai Say	No Relationship	To get a job / small business	Employer and employee	For livelihood improvement
5	9	1	U Saw Say Hmu	Sibling (brother and sister)	To get help to finish the work on time	Employer and employee	Help out to finish the work
6	9	2	U Kyi Win	No Relationship	To get help to finish the work on time	Employer and employee	Help out to finish the work
7	3	1	U Saw Johnson	Parents	To get a job / small business	Helping in work	For livelihood improvement
8	5	1	U Kyi Win	Sibling (brother and sister)	To get help to finish the work on time	Helping in work	Work as an apprentice
9	6	1	U Kyi Win	Other relatives	To get a job / small business	Helping in work	For livelihood improvement
10	6	2	U Ngwe Hla	Other relatives	To get a job / small business	Supplier and creditor	For livelihood improvement
11	8	1	U Kyi Win	Other relatives	To get help to finish the work on time	Same business	Help out to finish the work
12	8	2	U Myint	No Relationship	To get help to finish the work on time	Employer and employee	Help out to finish the work
13	10	1	U Saw Htoo Say	Sibling (brother and sister)	To get money for investment	Supplier and creditor	For livelihood improvement
14	10	2	U Saw Lai Say	Sibling (brother and sister)	To get a job / small business	Supplier and creditor	For livelihood improvement
15	10	3	U Saw Lwin	Parent-in-law	To get a job / small business	Employer and employee	Help out to finish the work
16	11	1	U Lai Say	Other relatives	To get help to finish the work on time	Helping in work	Help out to finish the work
17	11	2	U Sai Khay	Sibling (brother and sister)	To get help to finish the work on time	Helping in work	Help out to finish the work
18	11	3	U Sae Ni	No Relationship	To get help to finish the work on time	Helping in work	Help out to finish the work
19	12	1	U Htun Yee	No Relationship	To get a job / small business	Employer and employee	For livelihood improvement
20	13	1	U Lai Say	Other relatives	To get help to finish the work on time	Employer and employee	Help out to finish the work
21	14	1	U Bar Bu	Other relatives	To get a job / small business	Collective use of facilities and equipments	For livelihood improvement
22	15	1	U John Son	Other relatives	To get a job / small business	Mutual helping	For education purpose
23	15	2	U Saw Lai Say	Other relatives	To get advices and suggestions	Mutual helping	Helping in selling out quota paddy to government purchasing depot
24	15	3	U Kyi Win	Other relatives	To be able to sell the quota paddy	Mutual helping	Helping in selling out quota paddy to government purchasing depot
25	16	1	U Saw Htoo Palai	Other relatives	To get help to finish the work on time	Helping in work	Help out to finish the work
26	17	1	U Saw Htoo Pali	Other relatives	To get a job / small business	Employer and employee	For livelihood improvement
27	18	1	Saw El Hte Caw	Son / daughter	To get help to finish the work on time	Helping in work	Help out to finish the work
28	18	2	U Tun Shwe	No Relationship	To get help to finish the work on time	Mutual helping	Help out to finish the work
29	18	3	U Thein Hte	No Relationship	To get help to finish the work on time	Mutual helping	Help out to finish the work
30	19	1	U Denial	Other relatives	To get help to finish the work on time	Collective labour	Help out to finish the work
31	19	2	U Sae Nay	No Relationship	To get help to finish the work on time	Collective labour	Help out to finish the work
32	19	3	U Saw Nwe War	Other relatives	To get help to finish the work on time	Collective labour	Help out to finish the work
33	22	1	Saw Lai Say	Other relatives	To get help to finish the work on time	Collective use of facilities and equipments	Hiring of cattle and other farm implements / utilities
34	22	2	U Htoo Palai	Other relatives	To get a job / small business	Collective use of facilities and equipments	For livelihood improvement
35	22	3	U Kyi Win	Other relatives	To get help to finish the work on time	Collective use of facilities and equipments	Hiring of cattle and other farm implements / utilities
36	22	4	U Chit Tee	Other relatives	To get help to finish the work on time	Collective labour	Help out to finish the work
37	23	1	U John Son	Other relatives	To get help to finish the work on time	Mutual helping	Help out to finish the work
38	23	2	U Htoo Lai	Other relatives	To get help to finish the work on time	Mutual helping	Help out to finish the work
39	24	1	U Kyi Win	No Relationship	To get a job / small business	Owner and tenant	For health purpose
40	24	2	Kids	Son / daughter	To get help on voluntary service	Helping in work	Help out to finish the work
41	24	3	son-in-laws	Son-in-law / daughter-in-law	To get help on voluntary service	Helping in work	Help out to finish the work
42	25	1	U Denial	Sibling (brother and sister)	To get a job / small business	Helping in work	Work as an apprentice
43	25	2	Sayar Sai Kay	Sibling (brother and sister)	To get a job / small business	Helping in work	Work as an apprentice
44	26	1	U Thamun	Son / daughter	To get help to finish the work on time	Helping in work	Help out to finish the work
45	27	1	U Say Htoo	Parent-in-law	To get help to finish the work on time	Supplier and creditor	Help out to finish the work
46	30	1	U Mann Sauk	No Relationship	To get a job / small business	Employer and employee	To get a chance for livelihood
47	31	1	U Chit Htun	Son / daughter	To get help on voluntary service	Collective labour	Help out to finish the work
48	33	1	U Johnson	Other relatives	To get advices and suggestions	Mutual helping	For advice, directions and education for the job
49	34	1	U Pierre	No Relationship	To get money for investment	Supplier and creditor	Selling coconuts
50	34	2	U Kyi Win	Sibling (brother and sister)	To get a job / small business	Employer and employee	For livelihood improvement
51	35	1	Daw Lay Bon	Spouse	To get help to finish the work on time	Collective labour	Help out to finish the work
52	35	2	Naw Sel War	Son / daughter	To get help to finish the work on time	Collective labour	Help out to finish the work
53	35	3	Saw Sel Hmu	Son / daughter	To get help to finish the work on time	Collective labour	Help out to finish the work
54	41	1	U Khin Zaw	No Relationship	To get a job / small business	Seller and buyer (Wholesale and retail)	For livelihood improvement
55	43	1	Daw Mae Lay	Parent-in-law	To get advices and suggestions	Helping in work	For advice, directions and education for the job
56	44	1	U Saw Htoo Say	Parent-in-law	To get help to finish the work on time	Supplier and creditor	For livelihood improvement
57	46	1	U Saw Htoo Say	Other relatives	To get help to finish the work on time	Helping in work	Help out to finish the work
58	47	1	Daw Naw Shar Phaw	Spouse	To get help to finish the work on time	Same business	Help out to finish the work
59	49	1	Ma More Thu	Son / daughter	To get help to finish the work on time	Employer and employee	Help out to finish the work
60	50	1	U Aye Thar	Other relatives	To get a job / small business	Helping in work	For livelihood improvement
61	51	1	U Phoe Hnyet	No Relationship	To get a job / small business	Supplier and creditor	For livelihood improvement
62	53	1	Saw Sir El Saw	Son / daughter	To get help to finish the work on time	Same business	Help out to finish the work
63	53	2	Naw Sir El Phaw	Son / daughter	To get help to finish the work on time	Same business	Help out to finish the work
64	54	1	Saw Hae Kalay	Son / daughter	To get help to finish the work on time	Money supporter and	Help out to finish the work
65	55	1	U Aye Thar	No Relationship	To get a job / small business	Owner and tenant	For livelihood improvement

Table 5.2-4 Persons Close to the Household

No.	Hhold No	Serial No.	Name of closed person	Relationship	Purpose	Type of cooperation	Reason of cooperation
66	55	2	U Saw Mwe Say	Son / daughter	To get help to finish the work on time	Helping in work	Help out to finish the work
67	55	3	U Saw Mwe Htoo	Son / daughter	To get help to finish the work on time	Helping in work	Help out to finish the work
68	56	1	U Naing Oo	No Relationship	To get help to finish the work on time	Collective labour	Help out to finish the work
69	57	1	U Soe Khin	No Relationship	To get advices and suggestions	Mutual helping	For livelihood improvement
70	58	1	U Saw Htoo Say	No Relationship	To get help to finish the work on time	Collective labour	Help out to finish the work
71	58	2	U Kyi Win	No Relationship	To get a job / small business	Collective labour	For livelihood improvement
72	58	3	U Lar Pwe	Other relatives	To get a job / small business	Collective labour	For livelihood improvement
73	59	1	Daw Htwe	Sibling (brother and sister)	To get help to finish the work on time	Employer and employee	Help out to finish the work
74	59	2	Naw Bwe Say	Sibling (brother and sister)	To get help to finish the work on time	Employer and employee	Help out to finish the work
75	60	1	U Saw Peter Byu	Other relatives	To get help to finish the work on time	Owner and tenant	Help out to finish the work
76	60	2	Naw Say Lar	Other relatives	To get help to finish the work on time	Owner and tenant	Help out to finish the work
77	63	1	Naw Sell Mu	Other relatives	To get help to finish the work on time	Collective labour	Help out to finish the work
78	64	1	U Saw Htoo War	No Relationship	To get help to finish the work on time	Employer and employee	Help out to finish the work
79	66	1	U Htoo War	No Relationship	To get a job / small business	No able to answer	For livelihood improvement
80	66	2	U Kyar Aye	Other relatives	To get help to finish the work on time	No able to answer	Help out to finish the work
81	67	1	Naw Kari Lay	Sibling (brother and sister)	To get help on voluntary service	Helping in work	For livelihood improvement
82	69	1	Naw Ku Ku	No Relationship	To get money for investment	Supplier and creditor	For livelihood improvement
83	69	2	U Kyaw Oo	No Relationship	To get a job / small business	Owner and tenant	To get a chance for livelihood
84	71	1	U Saw Htoo Say	Other relatives	To get a job / small business	Supplier and creditor	Help out to finish the work
85	71	2	U Saw Lwin	Other relatives	To get help to finish the work on time	Collective labour	For advice, directions and education for the job
86	72	1	Naw El Pali Phaw	Spouse	To get help to finish the work on time	Same business	Help out to finish the work
87	75	1	U Lar Pwe	Other relatives	To get a job / small business	No able to answer	For livelihood improvement
88	75	2	U Aung Kyi Lin	Sibling (brother and sister)	To get help to finish the work on time	Helping in work	Help out to finish the work
89	76	1	U Khin Zaw (crab merchant)	No Relationship	To get a job / small business	Supplier and creditor	To get a chance for livelihood
90	77	1	U Lar Pwe	Other relatives	To get a job / small business	No able to answer	For livelihood improvement
91	78	1	Saw Lar Lai	Other relatives	To get help to finish the work on time	Mutual helping	Help out to finish the work
92	79	1	U Chit Maung	No Relationship	To get a job / small business	Employer and employee	For livelihood improvement
93	1	1	U Hla Htun	No Relationship	To get help to finish the work on time	Mutual helping	Help out to finish the work
94	1	2	U Sein Myint	No Relationship	To get help to finish the work on time	Mutual helping	Help out to finish the work
95	3	1	U Aju	No Relationship	To get money for investment	Money supporter and	For money matters / investment
96	7	1	Saya Yaw	No Relationship	To get money for investment	Employer and employee	For money matters / investment
97	9	1	U Thein Soe	Other relatives	To get help to finish the work on time	Mutual helping	Help out to finish the work
98	9	2	U Thein Oo	Other relatives	To get help to finish the work on time	Helping in work	Help out to finish the work
99	9	3	U Chit Sein	Other relatives	To get help to finish the work on time	Helping in work	Help out to finish the work
100	11	1	Maung Thein Soe	Son / daughter	To get money for investment	Money supporter and	For money matters / investment
Nyaung TA Pin							
101	23	1	U Naung Naung	Sibling (brother and sister)	To get help on voluntary service	Collective use of facilities and equipments	
102	23	2	U Hla Kyaing	Other relatives	To get help to finish the work on time	Collective use of facilities and equipments	
103	29	1	U Tin Hla	No Relationship	To get help to finish the work on time	Same religion	Help out to finish the work
104	29	2	U Tin Oo	No Relationship	To get help to finish the work on time	Collective use of facilities and equipments	Help out to finish the work
105	31	1	U Yaw Han	Other relatives	To get help to finish the work on time	Collective use of facilities and equipments	Help out to finish the work
106	35	1	U Nyein Chan	Other relatives	To get help to finish the work on time	Collective labour	Help out to finish the work
107	37	1	U Mann Tu	Parents	To get money for investment	Collective use of facilities and equipments	For money matters / investment
108	39	1	U Tin Sann	No Relationship	To get money for investment	Seller and buyer (Wholesale and retail)	For money matters / investment
109	41	1	U Win Kyaw	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
110	43	1	Daw Khin Than	Spouse	To get money for investment	Same business	For money matters / investment
111	43	2	Ma Than Than Khine	Son / daughter	To get money for investment	Same business	For money matters / investment
112	43	3	Maung Min Min	Son / daughter	To get help to finish the work on time	Same business	Help out to finish the work
113	43	4	U Nyein Chan	Other relatives	To get a job / small business	Employer and employee	For livelihood improvement
114	45	1	U Net	Other relatives	To get money for investment	Creditor and Debtor	For money matters / investment
115	45	2	Daw Hnin Wai	Spouse	To get help to finish the work on time	Same business	Help out to finish the work
116	47	1	Ma Mi Thet	Spouse	To get money for investment	Helping in work	For money matters / investment
117	47	2	Daw Mya Aye	Other relatives	To be able to sell the quota paddy	Helping in work	Help out to finish the work
118	47	3	U Zaw Win Naing	No Relationship	To get money for investment	Seller and buyer (Wholesale and retail)	For money matters / investment
119	47	4	U Soe Lwin	No Relationship	To get money for investment	Seller and buyer (Wholesale and retail)	For money matters / investment
120	49	1	Ko Kyin Nar	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
121	49	2	Ma Htay Htay	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
122	53	1	Ma Thidar	Spouse	To get money for investment	Same business	For money matters / investment
123	55	1	U Win	Other relatives	To get money for investment	Money supporter and	For money matters / investment
124	57	1	Daw Jue	Parents	To get money for investment	Money supporter and	For money matters / investment
125	59	1	U Kyi Than	No Relationship	To get help to finish the work on time	Helping in work	Help out to finish the work
126	59	2	Ko Myo	No Relationship	To get help to finish the work on time	Helping in work	Help out to finish the work
127	61	1	Ko Nyein Chan	Other relatives	To get help to finish the work on time	Employer and employee	Help out to finish the work
128	61	2	Daw Me That	Other relatives	To get help to finish the work on time	Employer and employee	Help out to finish the work
129	63	1	Daw Pon	Spouse	To get money for investment	Same business	For money matters / investment
130	63	2	Maung Taw Mar	Son / daughter	To get help to finish the work on time	Same business	Help out to finish the work
131	63	3	U Win Kyaw	No Relationship	To get help to finish the work on time	Employer and employee	Help out to finish the work
132	63	4	U Nyein Chan	No Relationship	To get help to finish the work on time	Employer and employee	Help out to finish the work
133	63	5	U Yaw Han	No Relationship	To get help to finish the work on time	Employer and employee	Help out to finish the work
134	65	1	U Nyein Chan	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
135	67	1	U Nyein Chan	No Relationship	To get money for investment	Collective labour	For money matters / investment
136	69	1	U Nyein Chan	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment

Table 5.2-4 Persons Close to the Household

No.	Hhold No	Serial No.	Name of closed person	Relationship	Purpose	Type of cooperation	Reason of cooperation
137	69	2	U Bo Htiike	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
138	71	1	U Khin Maung Hla	Son / daughter	To get help to finish the work on time	Mutual helping	Help out to finish the work
139	71	2	U Win Kyaw	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
140	71	3	Ko Myint Win	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
141	73	1	U Yaw Han	No Relationship	To get money for investment	Money supporter and	For money matters / investment
142	73	2	U Chit Hlaing	Other relatives	To get money for investment	Money supporter and	For money matters / investment
143	73	3	Daw Than Than	Spouse	To get help to finish the work on time	Money supporter and	Help out to finish the work
144	75	1	U Win Kyaw	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
145	75	2	Saw Eai Lit	Son / daughter	To get help to finish the work on time	Same business	Help out to finish the work
146	77	1	U Than Myint	No Relationship	To get money for investment	Creditor and Debtor	For money matters / investment
147	79	1	U Myint Oo	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
148	85	1	U Myint Oo	No Relationship	To get help to finish the work on time	Supplier and creditor	Help out to finish the work
149	87	1	U Myint Oo	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
150	93	1	Ma Kyi Myint	Spouse	To get money for investment	Same business	For money matters / investment
151	93	2	Saw Ba Khat	Sibling (brother and sister)	To get help to finish the work on time	Same business	Help out to finish the work
152	95	1	Ko Myint Oo	No Relationship	To get money for investment	Same business	For money matters / investment
153	95	2	U Yan Naing Oo	Son / daughter	To get help to finish the work on time	Same business	Help out to finish the work
154	99	1	U Hla Than	No Relationship	To get help to finish the work on time	Helping in work	Help out to finish the work
155	99	2	Daw Nge Yin	Parents	To get money for investment	Money supporter and	For money matters / investment
156	99	3	U Aye Hlaing	Head of household	To get help to finish the work on time	Helping in work	Help out to finish the work
157	103	1	Daw Khin Own San	Spouse	To get help to finish the work on time	Money supporter and	For money matters / investment
158	103	2	U Hla Sann	No Relationship	To get advices and suggestions	Seller and buyer (Wholesale and retail)	For money matters / investment
159	105	1	U Hla Than	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment
160	105	2	U Tin Soe	No Relationship	To get money for investment	Supplier and creditor	For money matters / investment

Table 5.2-5 Debts Status

No.	HH	Debt amount	Condition for reimbursement	Grace period	Interest rate per month	Reimbursement Period	Penalty	Reason for borrowing
Thar Yar Kone								
1	1	10,000	Be pay back by labour charges	0	None	Be paid on raining season	None	For livelihood
2	2	50,000	No need to repay while working because of advance payment	0	None	Last sale on 10/02	To file a suit	Having investment for business
3	2	60,000	No need to repay while working because of advance payment	0	None	Till paddy harvesting time	None	Having investment for business
4	4	10,000	No need to repay while working because of advance payment	0	None	None	None	For livelihood
5	9	10,000	No need to repay while working because of advance payment	0	None	5/03	None	For livelihood
6	3	7,000	Not answer	0	None	None	None	For livelihood
7	6	3,000	Not answer	0	20%	None	None	For livelihood
8	6	2,000	Not answer	0	None	None	None	Having investment for business
9	8	3,000	No need to repay while working because of advance payment	0	None	None	None	For livelihood
10	12	11,000	No need to repay while selling because of advance payment	0	None	Be paid on partially	None	Having investment for business
11	13	7,000	Be pay back by labour charges	0	None	None	None	For livelihood
12	13	3,500	Be pay back by labour charges	0	None	None	None	For livelihood
13	14	60,000	No need to repay while working because of advance payment	0	40 basket of paddy	Only one year	None	Having investment for business
14	15	245,000	Able to repay	0	None	After 6 months	None	To sell quota rice
15	16	50,000	Be pay back at convenience time	0	None	None	None	For livelihood
16	17	50,000	Be pay back at convenience time	0	None	None	None	For livelihood
17	23	15,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
18	25	5,000	Able to repay	0	10%	None	None	Expense for giving birth to a child
19	26	240,000	Not answer	0	None	None	None	To sell quota rice
20	32	50,000	Not answer	0	None	None	None	For livelihood
21	33	70,000	No need to repay while working because of advance payment	0	None	Within one year	None	For taking care of poor health
22	34	4,000	No need to repay while working because of advance payment	0	None	None	None	For livelihood
23	35	3,000	Able to repay	2	20%	3/03	6000	For funeral
24	40	90,000	Difficult to repay	0	None	None	None	For livelihood
25	42	500	Able to repay	0	None	None	None	For livelihood
26	43	4,000	Be pay back at convenience time	0	None	None	None	For livelihood
27	44	100,000	No need to repay while selling because of advance payment	0	10%	Next paddy harvesting time	None	Expense for schooling
28	44	10,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
29	44	20,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
30	46	50,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
31	47	2,000	Not answer	0	None	None	None	For livelihood
32	48	5,000	No need to repay while working because of advance payment	0	None	Till coconut picking time	None	For livelihood
33	49	3,000	No need to repay while selling because of advance payment	0	None	Till coconut picking time	None	For livelihood
34	50	5,000	Be pay back by labour charges	0	None	None	None	Sharing in village administrative expense
35	50	30,000	Be pay back by labour charges	0	None	None	None	To pay for elder brother's debt
36	51	15,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
37	52	100,000	Not answer	0	15%	Within 3 months	None	Having investment for business
38	53	4,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
39	55	100,000	Be pay back by labour charges	0	None	At any convenient time	None	For livelihood
40	56	4,500	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
41	57	17,000	Be pay back by labour charges	0	10%	Pay back by labour charges	None	For taking care of poor health
42	58	3,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
43	58	2,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
44	59	1,000	Able to repay	0	None	None	None	Having investment for business
45	59	1,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
46	60	3,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
47	61	20,000	Able to repay	0	None	Within 6 months	None	For taking care of poor health

Table 5.2-5 Debts Status

No.	HH	Debt amount	Condition for reimbursement	Grace period	Interest rate per month	Reimbursement Period	Penalty	Reason for borrowing
48	64	2,000	No need to repay while working because of advance payment	0	None	None	None	For livelihood
49	66	10,000	Not answer	0	None	None	None	For taking care of poor health
50	68	15,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
51	69	36,000	No need to repay while working because of advance payment	0	None	Next paddy harvesting time	None	For livelihood
52	70	9,000	No need to repay while working because of advance payment	0	10%	Next paddy harvesting time	None	For livelihood
53	71	2,000	No need to repay while working because of advance payment	0	None	None	None	For livelihood
54	72	5,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
55	73	30,000	Not answer	0	None	None	None	For livelihood
56	74	20,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
57	75	5,000	Not answer	0	None	None	None	For livelihood
58	76	50,000	No need to repay while working because of advance payment	0	None	Within one year	None	Having investment for business
59	77	3,000	Not answer	0	None	None	None	For livelihood
60	78	2,000	No need to repay while selling because of advance payment	0	None	None	None	For livelihood
Nyaung Ta Pin								
61	3	10,000	Be pay back at convenience time	0	None	At any convenient time	None	For livelihood
62	5	3,000	Able to repay	0	10%	Within one month	None	Having investment for business
63	7	1,000	No need to repay	0	None	None	None	For livelihood
64	9	3,000	Able to repay	0	None	At any convenient time	None	For taking care of poor health
65	13	60,000	Be pay back at convenience time	0	10%	None	None	Having investment for business
66	15	1,000	Not answer	0	Daily back interest rate 100%	None	None	Having investment for business
67	17	500	Be pay back at convenience time	0	None	None	None	Having investment for business
68	21	10,000	No need to repay while selling because of advance payment	0	None	Till coconut picking time	None	Having investment for business
69	21	20,000	No need to repay while selling because of advance payment	0	None	None	None	Having investment for business
70	23	4,000	Be pay back at convenience time	0	None	At any convenient time	None	For taking care of poor health
71	25	20,000	No need to repay while working because of advance payment	0	None	None	None	Having investment for business
72	29	40,000	Be pay back at convenience time	0	None	Within 5 months	None	Having investment for business
73	31	80,000	Be pay back at convenience time	0	None	None	None	Having investment for business
74	33	5,000	No need to repay while working because of advance payment	0	None	None	None	Having investment for business
75	35	5,000	Be pay back at convenience time	0	None	None	None	For taking care of poor health
76	37	5,000	No need to repay	0	None	None	None	For taking care of poor health
77	41	20,000	No need to repay while selling because of advance payment	0	None	At any convenient time	None	For livelihood
78	43	45,000	Not able to repay	0	None	03/03	To file a suit	For taking care of poor health
79	45	80,000	Pay interest regularly	0	6%	None	None	Having investment for business
80	45	100,000	Pay interest regularly	0	None	None	None	Having investment for business
81	45	100,000	Pay interest regularly	0	None	None	None	Having investment for business
82	47	200,000	Able to repay	0	None	At Prawn catching time	None	Having investment for business
83	47	100,000	Able to repay	0	None	At Prawn catching time	None	Having investment for business
84	49	17,000	Not able to repay	0	None	None	None	For livelihood
85	49	47,000	Not able to repay	0	None	None	None	For livelihood
86	51	8,000	Able to repay	0	None	At any convenient time	None	Having investment for business
87	51	3,000	Able to repay	0	None	To be pay back with value of crabs	None	For livelihood
88	53	10,000	Able to repay	0	None	Repay 2000kyats per month	None	For livelihood
89	53	55,000	Not answer	0	None	At Prawn catching time	None	Having investment for business
90	55	5,000	No need to repay	0	None	At any convenient time	None	For livelihood
91	57	20,000	No need to repay	0	None	At any convenient time	None	For livelihood

Table 5.2-5 Debts Status

No.	HH	Debt amount	Condition for reimbursement	Grace period	Interest rate per month	Reimbursement Period	Penalty	Reason for borrowing
92	61	50,000	Able to repay	0	None	Year 2003	None	Don't Know
93	63	3,000	Able to repay	0	None	To be pay back with value of crabs	None	For livelihood
94	63	18,000	Able to repay	0	None	To be pay back with value of coconuts	None	For livelihood
95	63	8,000	Able to repay	0	None	To be pay back with value of crabs	None	For livelihood
96	65	15,000	No need to repay while selling because of advance payment	0	None	At any convenient time	None	For livelihood
97	67	17,000	No need to repay while working because of advance payment	0	None	At any convenient time	None	For livelihood
98	69	6,000	No need to repay while working because of advance payment	0	None	At any convenient time	None	For livelihood
99	71	2,000	Able to repay	0	None	None	None	For livelihood
100	71	3,000	Able to repay	0	None	None	None	For livelihood
101	73	5,000	No need to repay while working because of advance payment	0	None	At crabs catching time	None	For livelihood
102	75	30,000	Able to repay	0	None	None	None	For livelihood
103	77	15,000	No need to repay while selling because of advance payment	0	None	To be pay back with value of coconuts	None	For livelihood
104	77	60,000	Able to repay	0	10%	7/03	None	Having investment for business
105	79	5,000	No need to repay while selling because of advance payment	0	None	At any convenient time	None	For livelihood
106	83	20,000	Not answer	0	None	None	None	Having investment for business
107	87	10,000	No need to repay while selling because of advance payment	0	None	To be pay back with value of crabs	None	For livelihood
108	89	20,000	No need to repay while selling because of advance payment	0	None	At any convenient time	None	Having investment for business
109	91	25,000	No need to repay while working because of advance payment	0	None	Till both are partners	None	For livelihood
110	93	12,000	No need to repay while selling because of advance payment	0	None	Till both are partners	None	For livelihood
111	95	1,000	Able to repay	0	None	28/2/03	None	For livelihood
112	105	2,000	No need to repay while selling because of advance payment	0	None	At any convenient time	None	For livelihood

Table 5.2-6 Key Person in the Village

No.	HH	Order of importance	Name of Key Person	In which group he/she in
Thar Yar Kone				
1	1	1	Saw John Son	Parent Teacher Association
2	1	2	Saw Lai Say	Village Peace and Development Council
3	1	3	U Soe Khin	Not involve in group
4	2	1	Saw John Son	Farmers Group
5	2	2	U Soe Khin	Not involve in group
6	2	3	U Lai Say	Village Peace and Development Council
7	4	1	U Saw Lai Say	Village Peace and Development Council
8	4	2	U Htoo Say	Village Development Committee
9	4	3	U Say Hmu	Christian Youth Association
10	7	1	U Saw Lai Say	Village Peace and Development Council
11	7	2	U Saw Htoo Say	UG Management Committee (CF)
12	7	3	U Saw Maung Chit	CF user sub-group .2
13	9	1	U Saw Lai Say	Village Peace and Development Council
14	9	2	U Kyi Win	Not involve in group
15	9	3	U Saw Hoo Say	UG Management Committee (CF)
16	3	1	U Saw Johnson	Farmers Group
17	3	2	U Saw Lai Say	Village Peace and Development Council
18	3	3	U Soe Khin	Christian Trustee Association (Thar Yar Kone)
19	5	1	U Saw Lai Say	Village Peace and Development Council
20	5	2	U Htoo Pali	Christian Trustee Association (Thar Yar Kone)
21	5	3	U Kyi Win	Farmers Group
22	6	1	U Saw Lai Say	Village Peace and Development Council
23	8	1	U Saw Lai Say	Village Peace and Development Council
24	8	2	U Saw Johnson	Village Development Committee
25	8	3	U Saw Htoo Say	UG Management Committee (CF)
26	10	1	U John Son	Village Development Committee
27	10	2	U Htoo Phalai	Christian Trustee Association (Thar Yar Kone)
28	10	3	U Saw Lai Say	Village Peace and Development Council
29	11	1	U Lai Say	Village Peace and Development Council
30	11	2	U Kyi Win	Farmers Group
31	11	3	U Htoo Say	Village Development Committee
32	12	1	U Saw Lai Say	Village Peace and Development Council
33	12	2	U Saw Htoo Say	Village Development Committee
34	12	3	U Saw Hohnson	Village Development Committee
35	13	1	U John Son	Village Development Committee
36	13	2	U Saw Lai Say	Village Peace and Development Council
37	13	3	U Saw Htoo Say	UG Management Committee (CF)
38	14	1	U Saw lai Say	Village Peace and Development Council
39	14	2	U Saw Johnson	Village Development Committee
40	14	3	U Denial	Farmers Group
41	15	1	U Saw Lai Say	Village Peace and Development Council
42	15	2	U Saw Htoo Say	UG Management Committee (CF)
43	15	3	U Kyi Win0	Not involve in group
44	16	1	U Saw Lai Say	Village Peace and Development Council
45	16	2	U Saw Htoo Say	UG Management Committee (CF)
46	16	3	U Saw Htoo Palai	Women Religious Golden Association
47	17	1	U Saw Lai Say	Village Peace and Development Council
48	17	2	U Saw Htoo Say	Village Development Committee
49	17	3	U Saw Htoo Pali	Christian Trustee Association (Thar Yar Kone)
50	18	1	U Htoo Say	Union Solidarity and Development Association (USDA)
51	18	2	U Htoo Pali	Christian Trustee Association (Thar Yar Kone)
52	18	3	U Chit Maung	Farmers Group
53	19	1	U Saw Lai Say	Village Peace and Development Council
54	19	2	U Kyi Win	Farmers Group
55	19	3	U Saw Htoo Pali	Christian Trustee Association (Thar Yar Kone)
56	22	1	U Saw Htoo Say	UG Management Committee (CF)
57	22	2	U Saw Lai Say	Village Peace and Development Council
58	22	3	U John Son	Christian Trustee Association (Thar Yar Kone)
59	23	1	U Lai Say	Village Peace and Development Council
60	23	2	U Saw Htoo Say	UG Management Committee (CF)
61	23	3	U Saw Lwin	CF user sub-group .4
62	24	1	U Saw Lai Say	Village Peace and Development Council
63	24	2	U Kyi Win	Farmers Group
64	24	3	U Denial	Farmers Group
65	25	1	U Lai Say	Village Peace and Development Council
66	25	2	U Denial	Farmers Group
67	25	3	U Aung Mya Sein	Christian Trustee Association (Thar Yar Kone)
68	26	1	U Saw Lai Say	Village Peace and Development Council
69	26	2	Saw Tha Mu	Village Peace and Development Council
70	26	3	U Roger	Village Peace and Development Council
71	27	1	U Saw Lai Say	Village Peace and Development Council
72	27	2	U Soe Khin	UG Management Committee (CF)
73	27	3	U Kyaw Khin	UG Management Committee (CF)
74	28	1	U Saw Lai Say	Village Peace and Development Council

Table 5.2-6 Key Person in the Village

No.	HH	Order of importance	Name of Key Person	In which group he/she in
75	28	2	U Johnson	Parent Teacher Association
76	29	1	U Saw Lai Say	Village Peace and Development Council
77	29	2	U Saw Thamu	Village Peace and Development Council
78	30	1	U Saw Lai Say	Village Peace and Development Council
79	30	2	U Saw Htoo Say	UG Management Committee (CF)
80	30	3	U Kyaw Khin	Not involve in group
81	31	1	U Saw Lai Say	Village Peace and Development Council
82	31	2	U Saw Htoo Say	UG Management Committee (CF)
83	32	1	U Saw Lai Say	Village Peace and Development Council
84	32	2	U Soe Khin	Parent Teacher Association
85	32	3	U Htoo Say	UG Management Committee (CF)
86	33	1	U Johnson	Village Development Committee
87	33	2	U Saw Lai Say	Village Peace and Development Council
88	33	3	U Kyi Win	Farmers Group
89	34	1	U Saw Lai Say	Village Peace and Development Council
90	34	2	U Saw Johnson	Village Development Committee
91	34	3	U Kyi Win	Farmers Group
92	35	1	U Saw Lai Say	Village Peace and Development Council
93	35	2	U Kyaw Yin	Christian Trustee Association (Thar Yar Kone)
94	35	3	U Kyi Win	Not involve in group
95	39	1	U Saw Lai Say	Village Peace and Development Council
96	39	2	U Soe Khin	Not involve in group
97	39	3	U Saw Htoo Say	UG Management Committee (CF)
98	40	1	U Saw Lai Say	Village Peace and Development Council
99	40	2	U Htoo Say	UG Management Committee (CF)
100	40	3	U Soe Khin	Not involve in group
101	41	1	U Lai Say	Village Peace and Development Council
102	41	2	U John Son	Not involve in group
103	41	3	U Htoo Say	UG Management Committee (CF)
104	42	1	U Saw Lai Say	Village Peace and Development Council
105	42	2	U Saw Tha Mu	Village Peace and Development Council
106	42	3	U Kyaw Khin	CF user sub-group .5
107	43	1	U Saw Lai Say	Village Peace and Development Council
108	44	1	U Soe Khin	Not involve in group
109	44	2	U Kyaw Khin	CF user sub-group .5
110	44	3	U Jaw Lay	Women Religious Golden Association
111	46	1	U Saw Lai Say	Village Peace and Development Council
112	46	2	U Saw Htoo Say	UG Management Committee (CF)
113	47	1	U Saw Lai Say	Village Peace and Development Council
114	47	2	U Johnson	Not involve in group
115	47	3	U Kyi Win	Not involve in group
116	48	1	U Saw Johnson	Not involve in group
117	48	2	U Saw Soe Khin	UG Management Committee (CF)
118	48	3	U Saw Lai Say	Village Peace and Development Council
119	49	1	U Soe Khin	Not involve in group
120	49	2	U Saw Lai Say	Village Peace and Development Council
121	49	3	U Saw Htoo Say	UG Management Committee (CF)
122	50	1	U Lai Say	Village Peace and Development Council
123	50	2	U Kyi Win	Not involve in group
124	50	3	U Johnson	Not involve in group
125	51	1	U Soe Khin	Women Religious Golden Association
126	51	2	U Lai Say	Village Peace and Development Council
127	51	3	U Saw Hla Sael	Village People Militia
128	52	1	U Saw Lai Say	Village Peace and Development Council
129	52	2	U Soe Khin	Not involve in group
130	52	3	U Johnson	Not involve in group
131	53	1	U Soe Khin	Women Religious Golden Association
132	53	2	U Lai Say	Village Peace and Development Council
133	53	3	U Johnson	Not involve in group
134	54	1	U Saw Lai Say	Village Peace and Development Council
135	54	2	U Soe Khin	Christian Trustee Association (Thar Yar Kone)
136	54	3	U Johnson	Not involve in group
137	55	1	U Saw Lai Say	Village Peace and Development Council
138	55	2	U Saw Htoo Say	Village Development Committee
139	56	1	U Saw Lai Say	Village Peace and Development Council
140	56	2	U Saw Htoo Palai	Christian Trustee Association (Thar Yar Kone)
141	56	3	U Saw Htoo Say	Village Development Committee
142	57	1	U Saw Lai Say	Village Peace and Development Council
143	57	2	U Saw Say Thar	UG Management Committee (CF)
144	57	3	U Saw U Gyi	Farmers Group
145	58	1	U Lar Pwe	CF user sub-group .1
146	58	2	U Saw Do Phaw	CF user sub-group .1
147	58	3	U Saw Lwin	Village Peace and Development Council
148	59	1	U Saw Lwin	Village Peace and Development Council

Table 5.2-6 Key Person in the Village

No.	HH	Order of importance	Name of Key Person	In which group he/she in
149	59	2	U Saw Lai Say	Village Peace and Development Council
150	59	3	U Chit Maung	Christian Trustee Association (Thar Yar Kone)
151	60	1	U Saw Lwin	Village Peace and Development Council
152	60	2	U Saw Lai Say	Village Peace and Development Council
153	60	3	U Htoo Say	UG Management Committee (CF)
154	61	1	U Saw LAi SAy	Village Peace and Development Council
155	61	2	U Khin Back	Farmers Group
156	61	3	U Saw Tha Hmu	Village Peace and Development Council
157	63	1	U Johnson	Not involve in group
158	63	2	U Saw Lai Say	Village Peace and Development Council
159	63	3	U Soe Khin	Christian Trustee Association (Thar Yar Kone)
160	64	1	U Saw Lai Say	Village Peace and Development Council
161	64	2	U Saw Johnson	Not involve in group
162	64	3	U Saw Htoo Say	UG Management Committee (CF)
163	65	1	U John Son	Village Development Committee
164	65	2	U Soe Khin	Village Peace and Development Council
165	65	3	U Boe Yar	CF user sub-group .1
166	66	1	U Lai Say	Village Peace and Development Council
167	66	2	U Saw Johnson	Not involve in group
168	66	3	U Soe Khin	Not involve in group
169	67	1	U Saw Lai Say	Village Peace and Development Council
170	67	2	U Saw Lwin	Village Peace and Development Council
171	67	3	U Sae Htoo	Village Peace and Development Council
172	68	1	U Johnson	Not involve in group
173	68	2	U Soe Khin	Not involve in group
174	68	3	U Saw Lai Say	Village Peace and Development Council
175	69	1	U Saw Htoo Say	Village Development Committee
176	69	2	U Saw Lai Say	Village Peace and Development Council
177	69	3	U John Son	Village Development Committee
178	70	1	U Saw Lai Say	Village Peace and Development Council
179	70	2	U Saw Htay Say	Village Development Committee
180	70	3	U Khin Back	Farmers Group
181	71	1	U Johnson	Not involve in group
182	71	2	U Saw Lai Say	Village Peace and Development Council
183	71	3	U Saw Htoo Pali	Christian Trustee Association (Thar Yar Kone)
184	73	1	U Johnson	Not involve in group
185	73	2	U Soe Khin	Not involve in group
186	73	3	U Saw Lai Say	Village Peace and Development Council
187	74	1	U Saw Lai Say	Village Peace and Development Council
188	74	2	U John Son	Not involve in group
189	74	3	U Soe Khin	Not involve in group
190	75	1	U Saw Lai Say	Village Peace and Development Council
191	76	1	U Saw Lai Say	Village Peace and Development Council
192	76	2	U Saw Htoo Say	UG Management Committee (CF)
193	76	3	U Saw Johnson	Not involve in group
194	77	1	U Lai Say	Village Peace and Development Council
195	77	2	U Htoo Say	UG Management Committee (CF)
196	77	3	U Htoo Pali	Christian Trustee Association (Thar Yar Kone)
197	78	1	U Saw lai Say	Village Peace and Development Council
198	78	2	U Saw Lwin	Village Peace and Development Council
199	78	3	U Khing Back	Fire Brigade
200	79	1	U Say Lai Way	Village Peace and Development Council
201	79	2	U Saw Htoo Say	Village Development Committee
202	79	3	U Saw Htoo Palai	Christian Trustee Association (Thar Yar Kone)
Nyaung Ta Pin				
203	1	1	U Hla Myint	Village Peace and Development Council
204	1	2	U Nyein Chan	UG Management Committee (CF)
205	1	3	U Thant Zin Oo	Union Solidarity and Development Association (USDA)
206	3	1	U Hla Myint	Village Peace and Development Council
207	3	2	U Thant Zin	Union Solidarity and Development Association (USDA)
208	3	3	U Chit Hlaing	Not involve in group
209	5	1	U Hla Myint	Village Peace and Development Council
210	5	2	U Mann Win	UG Management Committee (CF)
211	5	3	U Hla Nyein	CF user sub-group .6
212	7	1	Ko Thant Zaw Oo	Union Solidarity and Development Association (USDA)
213	7	2	U Mann Win	UG Management Committee (CF)
214	7	3	U Hla Myint	Village Peace and Development Council
215	9	1	U Hla Myint	Village Peace and Development Council
216	9	2	U San	UG Management Committee (CF)
217	9	3	U A Win	UG Management Committee (CF)
218	11	1	U Chit Hlaing	Buddhist Trustee
219	11	2	U A Win	Christian Trustee Association (Thar Yar Kone)

Table 5.2-6 Key Person in the Village

No.	HH	Order of importance	Name of Key Person	In which group he/she in
220	11	3	U Hla Myint	Village Peace and Development Council
221	13	1	U Mann Win	UG Management Committee (CF)
222	13	2	U Hla Myint	Village Peace and Development Council
223	13	3	U Nyein Chan	UG Management Committee (CF)
224	15	1	U Chit Hlaing	Union Solidarity and Development Association (USDA)
225	15	2	Ko Thant Zin Oo	Union Solidarity and Development Association (USDA)
226	15	3	Ko Hla Myint	Village Peace and Development Council
227	17	1	U Chit Hlaing	Not involve in group
228	17	2	U Mann Win	UG Management Committee (CF)
229	17	3	U Hla Myint	Village Peace and Development Council
230	21	1	U Chit Hlaing	Not involve in group
231	21	2	U Mann Win	UG Management Committee (CF)
232	21	3	U Nyein Chan	Not involve in group
233	23	1	U Chit Hlaing	Not involve in group
234	23	2	U Mann Win	UG Management Committee (CF)
235	23	3	U Nyein Chan	UG Management Committee (CF)
236	25	1	U Chit Hlaing	Not involve in group
237	25	2	U Hla Myint	Village Peace and Development Council
238	25	3	U Thant Zin Oo	Union Solidarity and Development Association (USDA)
239	27	1	U Hla Myint	Village Peace and Development Council
240	27	2	U Sein Oo	Not involve in group
241	27	3	U Chit Hlaing	Not involve in group
242	29	1	U Mann Win	Village Development Committee
243	31	1	U Mann Win	CF user sub-group .1
244	31	2	U Hla Myint	Village Peace and Development Council
245	33	1	U Mann Tin Hla	Parent Teacher Association
246	33	2	U Chit Hlaing	Not involve in group
247	33	3	U Than Aung	Parent Teacher Association
248	35	1	U Mann Win	CF user sub-group .4
249	35	2	u Chit Hlaing	Not involve in group
250	35	3	U Hla Myint	Village Peace and Development Council
251	37	1	U Mann Tu	CF user sub-group .1
252	37	2	U Chit Hlaing	CF user sub-group .5
253	37	3	U Than Aung	Parent Teacher Association
254	39	1	U Hla Myint	Village Peace and Development Council
255	39	2	U Kyin Thein	Village Peace and Development Council
256	39	3	U Mann Tu	CF user sub-group .1
257	41	1	U Hla Myint	Village Peace and Development Council
258	41	2	U Chit Hlaing	CF user sub-group .5
259	41	3	U Win	Christian Trustee Association (Thar Yar Kone)
260	43	1	U Hla Myint	Village Peace and Development Council
261	43	2	U Kyin Thein	Village Peace and Development Council
262	43	3	U Pe Oo	Village Peace and Development Council
263	45	1	U Win	Christian Trustee Association (Thar Yar Kone)
264	45	2	U Chit Hlaing	CF user sub-group .5
265	45	3	U Than Aung	Parent Teacher Association
266	47	1	U Chit Hlaing	UG Management Committee (CF)
267	47	2	U Tin Hla	CF user sub-group .6
268	47	3	U Than Aung	CF user sub-group .6
269	49	1	Thant Zin Oo	Union Solidarity and Development Association (USDA)
270	49	2	U Yaw Han	CF user sub-group .1
271	49	3	U Jue	Union Solidarity and Development Association (USDA)
272	51	1	U Chit Hlaing	CF user sub-group .5
273	51	2	U Hla Myint	Village Peace and Development Council
274	51	3	U Kyin Thein	Village Peace and Development Council
275	53	1	U Chit Hlaing	CF user sub-group .5
276	53	2	U Maung San	UG Management Committee (CF)
277	53	3	U Kyin Thein	Village Peace and Development Council
278	55	1	U Win	Christian Trustee Association (Thar Yar Kone)
279	55	2	U Hla Myint	Village Peace and Development Council
280	55	3	U Chit Hlaing	CF user sub-group .5
281	57	1	U Chit Hlaing	CF user sub-group .5
282	57	2	U Hla Myint	Village Peace and Development Council
283	57	3	U Win	Christian Trustee Association (Thar Yar Kone)
284	59	1	U Hla Myint	Village Peace and Development Council
285	59	2	U Nyein Chan	UG Management Committee (CF)
286	59	3	U Chit Hlaing	UG Management Committee (CF)
287	61	1	Ko Hla Myint	Village Peace and Development Council
288	63	1	U Chit Hlaing	CF user sub-group .5
289	63	2	U Tun Nyein	Parent Teacher Association
290	63	3	U Than Aung	Parent Teacher Association
291	65	1	U Than Aung	CF user sub-group .2
292	65	2	U Chit Hlaing	CF user sub-group .5

Table 5.2-6 Key Person in the Village

No.	HH	Order of importance	Name of Key Person	In which group he/she in
293	65	3	Saya Yaw Han	CF user sub-group .1
294	67	1	U Chit Hlaing	Buddhist Trustee
295	67	2	U Than Aung	CF user sub-group .2
296	67	3	U Tun Nyein	CF user sub-group .2
297	69	1	U Chit Hlaing	CF user sub-group .5
298	69	2	U Tin Hla	Parent Teacher Association
299	69	3	U Thant Aung	CF user sub-group .2
300	71	1	U Chit Hlaing	CF user sub-group .5
301	71	2	U Tin Hla	Parent Teacher Association
302	71	3	U Than Aung	Parent Teacher Association
303	73	1	U Chit Hlaing	CF user sub-group .5
304	73	2	U Tin Hla	Parent Teacher Association
305	73	3	U Mann Tu	CF user sub-group .2
306	75	1	U Chit Hlaing	Not involve in group
307	75	2	U Tin Hla	CF user sub-group .8
308	75	3	U Hla Myint	Village Peace and Development Council
309	77	1	U Chit Hlaing	Not involve in group
310	77	2	U Than Aung	Parent Teacher Association
311	77	3	U Chit Htwe	Buddhist Trustee
312	79	1	U Myint Oo	Village Peace and Development Council
313	79	2	U Hla Myint	Village Peace and Development Council
314	81	1	U Nyein Chan	CF user sub-group .1
315	81	2	U Chit Hlaing	Not involve in group
316	81	3	U Tin Hla	Not involve in group
317	83	1	U Hla Myint	Village Peace and Development Council
318	83	2	U Chit Hlaing	Not involve in group
319	83	3	U Mann Tin	Not involve in group
320	85	1	U Myint Oo	Village Peace and Development Council
321	85	2	U Mann Ne	Not involve in group
322	85	3	U Hla Myint	Village Peace and Development Council
323	87	1	U Hla Myint	Village Peace and Development Council
324	87	2	U Myint Oo	Village Peace and Development Council
325	89	1	U Myint Oo	Village Peace and Development Council
326	89	2	U Mann Ne	Not involve in group
327	91	1	U Chit Hlaing	Not involve in group
328	91	2	U Mann Ne	Not involve in group
329	91	3	U Myint Soe	Not involve in group
330	93	1	U Myint Oo	Village Peace and Development Council
331	93	2	U Mann Ta Yoat	Not involve in group
332	93	3	U Myint Soe	Not involve in group
333	95	1	U Chit Hlaing	Not involve in group
334	95	2	U Pann Ne	Not involve in group
335	95	3	U Mann Tu	Not involve in group
336	97	1	U Hla Myint	Village Peace and Development Council
337	97	2	U Tin Hla	Village Peace and Development Council
338	97	3	U Kan Myint	Village Peace and Development Council
339	99	1	U Sann	UG Management Committee (CF)
340	99	2	U Nyein Chan	UG Management Committee (CF)
341	99	3	U Tin Oo	Not involve in group
342	101	1	U Mann Tin Hla	Not involve in group
343	101	2	U Chit Hlaing	Not involve in group
344	101	3	Saya Kan Myint	Not involve in group
345	103	1	U Hla Myint	Village Peace and Development Council
346	103	2	U Hla Than	Village Peace and Development Council
347	103	3	U Kan Myint	Not involve in group
348	105	1	U Hla Than	Village Peace and Development Council
349	105	2	U Tin Oo	Not involve in group

Table 5.2-7 Emergency and Initiative

No.	HH NO.	Name of emergency	Name of initiator	Status	In collaboration with	Results
Thar Yar Kone						
1	1	Emergency case	Saw John Son	Patron	Not mentioned	Succeed
2	2	Education	U Lai Say	Leader of 100 houses	10 HH's Head	Succeed
3	4	Village disputes	U Htoo Say	Chairman	Not mentioned	Succeed
4	8	Development of village and social affair	U Saw Lai Say	Chairman	Not mentioned	Succeed
5	16	Health	Village Leader	No	All Villagers	Not stated
6	18	Emergency case	Neighbor	Neighbor	Not mentioned	Not stated
7	32	Education	U Saw Htoo Say	Leader of 100 houses	All Villagers	Succeed
8	50	Development of village and social affair	U Lai Say	Leader of 100 houses	Not mentioned	Succeed
9	52	Village security	U Johnson	Village elderly person	Not mentioned	Succeed
10	53	Emergency case	U Kyi Win	Community Health Worker	neighboring villagers	Partially succeed
11	74	Development of village and social affair	Village Leader	No	All Villagers	Succeed
12	76	Development of village and social affair	U Saw Lwin, U Htoo Pali, U Lar Pwe, U Lai Say	Member	Not mentioned	Succeed
13	77	Development of village and social affair	U Lai Say	Leader of 100 houses	Not mentioned	Succeed
Nyaung Ta Pin						
14	1	Mangrove development and construction	U Hla Myint	No	villagers	Partially succeed
15	3	Cleanliness of environment	U Hla Myint	Leader of 100 houses	vill elders	Succeed
16	7	Education	U Mann Win	Villager	VPDC & villagers	Succeed
17	9	Emergency case	U Chit Hlaing	Village elderly person	Saya Chit Htwe and villagers	Succeed
18	17	Mangrove development and construction	U Chit Hlaing	Village elderly person	the whole village	Succeed
19	21	Development of village and social affair	U Thant Zin Oo	Leader of 100 houses	the whole village	Succeed
20	23	Emergency case	U Thant Zin Oo	Leader of 100 houses	village's youth	Succeed
21	25	Health	U Chit Hlaing, U Hla Myint, U Thant Zin Oo	Village elderly person	villagers	Succeed
22	27	Health	Daw Aye Mon	Villager	relatives	Succeed
23	29	To construct/maintain religious building	U Mann Win	Leader of Christian Religious Group	villagers	Succeed
24	33	Health	Village Leader	No	All Villagers	Not stated
25	35	Health	U Hla Myint	Leader of 100 houses	villagers	Succeed
26	35	Health	U Mann Win	Member	villagers	Succeed
27	41	To construct/maintain religious building	U Chit Hlaing	No	villagers	Succeed
28	41	Social occasion	U Chit Hlaing	No	villagers	Succeed
29	41	Mangrove development and construction	U Hla Myint	Leader of 100 houses	village elders	Succeed
30	43	Work directed by village tract	U Hla Myint	Leader of 100 houses	VPDC & village elders	Succeed
31	43	Emergency case	VPDC & village elders	No	village youth	Succeed
32	43	Management	U Nyein Chan	Secretary	VPDC	Succeed
33	45	Work directed by village tract	Ko Hla MYint	Leader of 100 houses	village elders	Succeed
34	45	Health	Ko Kyin Thein	Leader of 10 houses	village elders	Succeed
35	45	Management	Ko Nyein Chan	Secretary	VPDC & village elders	Succeed
36	49	Emergency case	Thant Zin Oo	Organizer	village elder	Succeed
37	51	Health	U Kyin Thein	Leader of 10 houses	VPDC & village elders	Succeed
38	63	To construct/maintain religious building	U Chit Hlaing	Village elderly person	School Committee	Succeed
39	63	Health	Daw Hnin Wai	Community Health Worker	VPDC	Succeed
40	65	To construct/maintain religious building	U Jue	Leader of Christian Religious Group	CFI	Succeed
41	65	Mangrove development and construction	U Than Aung	Village elderly person	village elders	Succeed
42	69	Cleanliness of environment	U Thant Zin Oo	Secretary	VDC	Succeed
43	69	To construct/maintain village road	U Chit Hlaing	Village elderly person	village elders	Succeed
44	71	Village disputes	U Chit Hlaing	Village elderly person	Thant Zin Oo	Succeed
45	71	To collect quota money	U Tin Hla	Village elderly person	village elders	Succeed
46	71	Education	U Than Aung	Village elderly person	village elder	Succeed
47	73	To construct/maintain village road	U Mann Tu	Village elderly person	villagers	Partially succeed
48	73	Education	U Tin Hla	Village elderly person	villagers	Partially succeed
49	73	To collect quota money	U Chit Hlaing	Village elderly person	villagers	Partially succeed
50	75	Development of village and social affair	U Chit Hlaing	Village elderly person	VPDC & village elders	Succeed
51	75	Development of village and social affair	U Mann Tin Hla	Village elderly person	VPDC & village elders	Succeed
52	75	Management	U Hla Myint	Leader of 100 houses	VPDC & village elders	Succeed
53	77	Social occasion	U Chit Hlaing	Village elderly person	the whole village	Succeed
54	77	Education	U Than Aung	Secretary	the whole village	Succeed
55	77	Development of village and social affair	U Chit Htwe	No	the whole village	Succeed
56	81	Emergency case	U Chit Hlaing	Village elderly person	villagers	Succeed
57	85	Work directed by village tract	U Myint Oo	Member	the whole village	Succeed
58	85	Management	U Mann ne	Village elderly person	U Myint Soe	Succeed
59	85	Management	U Hla Myint	Leader of 100 houses	village elders	Succeed
60	97	Health	U Tin Hla	Village elderly person	villagers	Succeed
61	105	To get water	U Tin Oo	Village elderly person	Ah Wa Su Villages	Succeed
62	105	Development of village and social affair	U Thant Zin Oo	No	VPDC	Succeed

Table 5.2-8 Cooperation Works

No.	HH	Activity no	Co-op activity	Type of system	Organizer	Participated by	Status of work
Thar Yar Kone							
1	1	1	Village development	By group	Farmers group Chairman)	Farmers	Good
2	1	2	To get water	The whole village	10 head households	Villagers	Good
3	1	3	Construction of village road	The whole village	100 Head households	Villages	Good
4	2	1	Mangrove development	By group	Chairman CFs	Members	Fair
5	4	1	Cleaning	The whole village	100 head households	Villagers	Good
6	4	2	To get water	The whole village	100 head households	Villagers	Good
7	4	3	Village development	By relatives	100 households head	Family members	Good
8	9	1	Construction/maintenance of house	By relatives	Owner of the house	Neighboring	Good
9	9	2	To get water	The whole village	100 household head	Villagers	Good
10	3	1	Village development	The whole village	U Saw Lai Say	villagers	Good
11	5	1	Maintenance of Monastery/Church	By group	U Htoo Pali	Religious group leader	Fair
12	5	2	Construction/maintenance of school	The whole village	U Saw Lai Say	villagers	Fair
13	6	1	Mangrove development	The whole village	U Saw Htoo Say	all villagers	Good
14	6	2	Construction/maintenance of school	The whole village	U Saw Lai Say	all villagers	Good
15	6	3	Construction of village road	The whole village	U Saw Lai Say	all villagers	Good
16	8	1	Mangrove development	The whole village	U Saw Htoo Say	all villagers	Bad
17	10	1	Mangrove development	By group	Chairman (CFI)	Members	Fair
18	10	2	Maintenance of Monastery/Church	The whole village	Trustee	All villagers	Good
19	10	3	Construction/maintenance of school	The whole village	Chairman(VDC)	All Villagers	Good
20	11	1	Village development	By group	Farmers Group Leader	Farmer Group members	Good
21	11	2	Mangrove development	By group	CF Group	CF group members	Good
22	11	3	Maintenance of Monastery/Church	By group	Religious Group leader	Religious Group members	Good
23	13	1	Mangrove development	The whole village	Leader(CFI)	All Villagers	Fair
24	13	2	Maintenance of Monastery/Church	The whole village	Trustee	All villagers	Good
25	13	3	Construction/maintenance of school	The whole village	PTA	All Villagers	Good
26	14	1	Mangrove development	By group	CFI leader	CFI (4) members	Good
27	14	2	Construction/maintenance of house	By group	PTA	PTA members	Good
28	15	1	Mangrove development	By group	Chairman(CFI)	Members	Fair
29	15	2	Construction/maintenance of school	By group	PTA	Members	Good
30	15	3	Maintenance of Monastery/Church	By group	Religious group	Members	Good
31	16	1	Mangrove development	The whole village	Chairman(CFI)	Villagers	Fair
32	16	2	Construction/maintenance of school	The whole village	PTA	Villagers	Good
33	16	3	Maintenance of Monastery/Church	The whole village	Religious	Villagers	Good
34	18	1	Mangrove development	The whole village	CFI chairman	Villagers	Good
35	18	2	Mangrove development	By group	CFI Chairman	CFI members	Good
36	18	3	Maintenance of Monastery/Church	By group	Religious group leader	religious group members	Good
37	19	1	Village development	By group	farmers	farmers	Good
38	19	2	Mangrove development	By group	CFI Group	CFI members	Good
39	19	3	Maintenance of Monastery/Church	By group	Religious Group Leader	Religious group members	Good
40	22	1	To get water	The whole village	U Nelson	Villagers	Good
41	22	2	Construction/maintenance of school	The whole village	UPDC	All Villagers	Good
42	22	3	Maintenance of Monastery/Church	The whole village	Leader(Religious)	Villagers	Good
43	22	4	Construction/maintenance of jetty/bridge	The whole village	Chairman(CFI)	Villagers	Good
44	23	1	Mangrove development	The whole village	Chairman(CFI)	Villagers	Good
45	23	2	Construction/maintenance of school	The whole village	Chairman(PTA)	Villagers	Good
46	23	3	To get water	The whole village	100 hh heads	All Villagers	Good
47	25	1	Maintenance of Monastery/Church	By group	U Aung Mya Sein	Religious Group members	Good
48	26	1	Construction of village road	The whole village	U Soe Khin	all villagers	Good
49	26	2	Construction/maintenance of school	The whole village	U Roger	all villagers	Good
50	27	1	Construction/maintenance of house	By relatives	Owner	relatives	Good
51	27	2	Mangrove development	By group	CFI Chairman	CFI members	Fair
52	28	1	Mangrove development	The whole village	U Saw Htoo Say	all villagers	Good
53	29	1	Construction of village road	The whole village	100 HH's Head	villagers	Good
54	29	2	Construction/maintenance of jetty/bridge	The whole village	100 HH's Head	villagers	Good
55	31	1	Construction of village road	The whole village	VPDC	Villages	Good
56	32	1	Mangrove development	The whole village	Chairman(CFI)	All Villagers	Good
57	32	2	Construction of village road	The whole village	VPDC	All Villagers	Good
58	32	3	To get water	The whole village	WATSAN	All Villagers	Good
59	33	1	Construction of village road	The whole village	VPDC	all villagers	Good
60	33	2	Construction/maintenance of jetty/bridge	The whole village	VPDC	all villagers	Good
61	33	3	Maintenance of Monastery/Church	By group	Religious Group	Religious group members	Good

Table 5.2-8 Cooperation Works

No.	HH	Activity no	Co-op activity	Type of system	Organizer	Participated by	Status of work
62	34	1	Cleaning	By group	Religious Group	religious group members	Good
63	34	2	Maintenance of Monastery/Church	By group	Religious Group	Religious group members	Good
64	35	1	Mangrove development	The whole village	Leader(CFI)	All Villages	Good
65	39	1	Mangrove development	The whole village	10 HH Head	Villagers	Good
66	39	2	To get water	The whole village	VPDC	All Villagers	Good
67	40	1	Maintenance of Monastery/Church	The whole village	Leader(Religious)	Villagers	Good
68	40	2	Construction/maintenance of school	The whole village	VPDC	Villagers	Good
69	40	3	Construction of village road	The whole village	VPDC	Villagers	Good
70	40	4	To get water	The whole village	WATSAN	Villagers	Good
71	41	1	Construction of village road	The whole village	VPDC	Villagers	Good
72	41	2	Construction/maintenance of school	The whole village	VPDC	Villagers	Good
73	41	3	Maintenance of Monastery/Church	The whole village	Trustee	Villagers	Good
74	41	4	Construction/maintenance of jetty/bridge	The whole village	VPDC	Villagers	Good
75	41	5	Mangrove development	The whole village	Leader(CFG)	Villagers	Good
76	43	1	Construction of village road	The whole village	U Saw Lai Say	all villagers	Good
77	43	2	Maintenance of Monastery/Church	By group	U Soe Khin	Religious Group members	Good
78	43	3	Construction/maintenance of school	The whole village	U Soe Hhin	all villagers	Good
79	43	4	Mangrove development	The whole village	U Saw Htoo Say	all villagers	Good
80	47	1	Mangrove development	The whole village	U Saw Htoo Say	all villagers	Bad
81	47	2	Construction of village road	The whole village	U Saw Htoo Say	all villagers	Fair
82	47	3	Cleaning	The whole village	U Saw Lai Say	all villagers	Fair
83	48	1	Construction/maintenance of house	The whole village	U Soe Khin	neighbors	Good
84	50	1	Maintenance of Monastery/Church	By group	U Soe Khin	Religious group members	Good
85	50	2	Construction/maintenance of school	The whole village	U Soe Khin	all villagers	Good
86	50	3	Mangrove development	The whole village	U Saw Htoo Say	all villagers	Good
87	50	4	Construction of village road	The whole village	U Saw Lai Say	all villagers	Good
88	50	5	Construction of village road	The whole village	U Saw Lai Say	all villagers	Good
89	51	1	Construction of village road	The whole village	VPDC	Villagers	Good
90	51	2	Mangrove development	The whole village	Chairman(CFI)	Villagers	Good
91	52	1	Construction/maintenance of jetty/bridge	The whole village	U Saw Htoo Say	all villagers	Good
92	52	2	Construction of village road	The whole village	U Saw htoo Say	all villagers	Good
93	52	3	Construction/maintenance of school	The whole village	U Saw Htoo Say	all villagers	Good
94	53	1	Construction of village road	The whole village	VPDC	all villagers	Good
95	53	2	Construction/maintenance of school	The whole village	VPDC + PTA	all villagers	Good
96	53	3	Mangrove development	The whole village	CFI Chairman	all villagers	Good
97	53	4	Maintenance of Monastery/Church	By group	Religious Group leader	Religious Group members	Good
98	54	1	Mangrove development	By group	CFI Chairman	villagers and members	Good
99	54	2	Maintenance of Monastery/Church	The whole village	U Soe Khin	villagers	Good
100	54	3	Construction of village road	The whole village	VPDC	villagers	Good
101	54	4	Construction/maintenance of school	The whole village	VPDC	villagers	Good
102	55	1	Construction of village road	The whole village	Villagers	all villagers	Good
103	55	2	Construction/maintenance of school	The whole village	Villagers	all villagers	Good
104	55	3	To get water	The whole village	Villagers	all villagers	Good
105	55	4	Construction/maintenance of jetty/bridge	The whole village	Villagers	all villagers	Good
106	56	1	Construction of village road	The whole village	Village Head	Villagers	Good
107	56	2	To get water	The whole village	Village Head	Villagers	Good
108	56	3	Construction/maintenance of jetty/bridge	The whole village	Village Head	Villagers	Good
109	56	4	Maintenance of Monastery/Church	By group	Religious group	Members	Good
110	58	1	Maintenance of Monastery/Church	By group	pastor	religious group member	Good
111	58	2	Construction/maintenance of house	By relatives	Owner	Friends	Good
112	59	1	Construction/maintenance of school	By group	deacon	religious group members	Good
113	59	2	Mangrove development	By group	CFI Chairman	CFI members	Good
114	59	3	Construction/maintenance of house	By relatives	Owner	neighbors	Good
115	60	1	Village development	The whole village	100 HH's Head	villagers	Good
116	60	2	Construction of village road	The whole village	100 HH's Head	villagers	Good
117	60	3	Construction/maintenance of house	By relatives	Owner	Neighbors	Good
118	61	1	To get water	The whole village	Villages' Group	Villagers	Good
119	61	2	Construction/maintenance of school	The whole village	Villages' group	Villagers	Good
120	61	3	Construction/maintenance of jetty/bridge	The whole village	Villages' group	Villagers	Good

Table 5.2-8 Cooperation Works

No.	HH	Activity no	Co-op activity	Type of system	Organizer	Participated by	Status of work
121	63	1	To get water	The whole village	village water committee	villagers	Good
122	63	2	Mangrove development	The whole village	U Saw Htoo Say	villagers	Good
123	63	3	Cleaning	The whole village	Religious Group Leader	religious group members	Good
124	63	4	Village development	The whole village	VPDC	villagers	Good
125	64	1	Cleaning	By group	CFI Chairman	CFI members	Good
126	65	1	Mangrove development	By group	Leader	Members	Fair
127	65	2	Maintenance of Monastery/Church	By group	Religious Group	Members	Good
128	65	3	Construction of village road	The whole village	VPDC	Villagers	Bad
129	66	1	Mangrove development	By group	U Saw Htoo Say	CFI members	Fair
130	66	2	Construction of village road	The whole village	U Saw lai Say	all villagers	Good
131	66	3	Construction/maintenance of school	The whole village	U Saw Lai Say	all villagers	Good
132	67	1	Cleaning	The whole village	villagers	all villagers	Good
133	67	2	Cleaning	The whole village	villagers	all villagers	Good
134	67	3	Mangrove development	The whole village	villagers	all villagers	Good
135	68	1	Mangrove development	The whole village	CFI chairman	villagers	Good
136	68	2	Construction of village road	The whole village	VPDC	villagers	Good
137	69	1	Construction/maintenance of jetty/bridge	The whole village	Village Leader	All Villagers	Good
138	69	2	Mangrove development	The whole village	Leader(CFI)	Members	Good
139	69	3	Construction/maintenance of school	The whole village	PTA	All villagers	Good
140	69	4	Maintenance of Monastery/Church	The whole village	Religious leader	Members	Good
141	70	1	Construction of village road	The whole village	VPDC	Villagers	Good
142	70	2	Construction/maintenance of school	The whole village	PTA	Villagers	Fair
143	70	3	To get water	The whole village	WATSAN	Villagers	Good
144	71	1	Maintenance of Monastery/Church	By group	deacon	religious group members	Good
145	71	2	Construction/maintenance of school	The whole village	100 HH's Head	all villagers	Good
146	71	3	Mangrove development	By group	CFI chairman	CFI members	Good
147	71	4	Construction of village road	The whole village	100 HH's Head	all villagers	Good
148	72	1	Construction/maintenance of house	By relatives	Owner	Neighbors	Good
149	72	2	Construction of village road	The whole village	100 HH's Head	villagers	Good
150	73	1	Construction of village road	The whole village	VPDC	villagers	Good
151	73	2	To get water	The whole village	village water committee	villagers	Good
152	73	3	Mangrove development	The whole village	CFI chairman	villagers	Good
153	74	1	Construction of village road	The whole village	VPDC	All Villagers	Good
154	74	2	To get water	The whole village	WATSAN	All villagers	Good
155	74	3	Construction/maintenance of jetty/bridge	The whole village	VPDC	All villagers	Good
156	74	4	Construction/maintenance of school	The whole village	Villager Leader	All villagers	Good
157	75	1	Cleaning	The whole village	Pyin Sa Lu official	villagers	Good
158	76	1	Village development	By group	U Saw Lwin, U Htoo Pali, U Lar Pwe, U Lai Say	villagers	Good
159	76	2	Construction/maintenance of school	The whole village	U Saw Htoo Say	villagers	Good
160	76	3	Construction of village road	The whole village	100 HHs Head	villagers	Good
161	77	1	Mangrove development	By group	U Htoo Say	CFI members	Good
162	77	2	Construction of village road	By relatives	U Lai Say	all villagers	Fair
163	77	3	Religious festival	By group	U Janson	Religious group members	Good
164	78	1	Village development	The whole village	100 HH's Head	all villagers	Good
165	78	2	Construction of village road	The whole village	100 HH's Head	all villagers	Good
166	78	3	Construction/maintenance of school	The whole village	100 HH's Head	all villagers	Good
167	79	1	Construction of village road	The whole village	VPDC	Villagers	Good
168	79	2	Construction/maintenance of school	The whole village	PTA	Villagers	Good
169	79	3	Maintenance of Monastery/Church	By group	Religious group	member	Good
170	79	4	Construction/maintenance of jetty/bridge	By group	VPDC	Villagers	Good
Nyaung Ta Pin							
171	1	1	Construction of Mangrove office	The whole village	VPDC	all villagers	Good
172	3	1	Maintenance of Monastery/Church	The whole village	U Hla Myint	the whole village	Good
173	3	2	To get water	By relatives	U Hla Htun	the whole family	Good
174	5	1	Construction of village road	The whole village	U Thant Zin Oo	the whole village	Good
175	5	2	Village development	The whole village	U Thant Zin Oo	the whole village	Good
176	5	3	Construction/maintenance of jetty/bridge	The whole village	U Thant Zin Oo	the whole village	Good
177	5	4	Cleaning	The whole village	U Thant Zin Oo	the whole village	Good
178	7	1	Construction/maintenance of school	The whole village	Ko Thant Zin Oo	villagers & village elders	Good
179	7	2	Construction/maintenance of jetty/bridge	The whole village	Ko Thant Zin Oo	villagers & village elders	Good

Table 5.2-8 Cooperation Works

No.	HH	Activity no	Co-op activity	Type of system	Organizer	Participated by	Status of work
180	7	3	Village development	The whole village	Ko Thant Zin Oo	villagers & village elders	Good
181	9	1	Construction of Mangrove office	The whole village	U Thant Zin Oo	the whole village	Good
182	9	2	Maintenance of Monastery/Church	The whole village	Religious Trustee	the whole village	Good
183	9	3	Construction/maintenance of school	The whole village	VPDC and school committee	the whole village	Good
184	11	1	Construction/maintenance of house	By relatives	Owner	neighboring villagers	Good
185	11	2	Construction of village road	The whole village	U Hla Myint	villagers	Good
186	15	1	Construction of Mangrove office	The whole village	Ko Thant Zin Oo	villagers	Good
187	17	1	Construction/maintenance of house	By relatives	Owner	Neighboring villagers	Good
188	21	1	Construction/maintenance of house	By relatives	Owner	Neighbors	Good
189	23	1	Construction/maintenance of school	The whole village	U Chit Hlaing	villagers	Good
190	23	2	Construction/maintenance of house	By relatives	Owner	relatives	Good
191	25	1	Mangrove development	By group	VPDC	the whole village	Good
192	25	2	Construction/maintenance of jetty/bridge	The whole village	VPDC	the whole village	Good
193	27	1	Construction/maintenance of house	By relatives	Owner	neighbors	Good
194	29	1	Construction/maintenance of jetty/bridge	The whole village	VPDC	all villagers	Good
195	29	2	Village development	The whole village	100 HH's Head	all villagers	Good
196	29	3	Construction of Mangrove office	The whole village	100 HH's Head	all villagers	Good
197	31	1	Mangrove development	By relatives	U Hla Myint	villagers	Good
198	31	2	Construction/maintenance of jetty/bridge	By relatives	VPDC	villagers	Good
199	31	3	Construction of Mangrove office	By relatives	VPDC	villagers	Good
200	33	1	Construction/maintenance of school	The whole village	VPDC	the whole village	Good
201	33	2	Construction of Mangrove office	By group	VPDC	the whole village	Good
202	33	3	Construction/maintenance of jetty/bridge	The whole village	VPDC	the whole village	Good
203	35	1	Construction of Mangrove office	The whole village	U Hla Myint	villagers	Good
204	35	2	Maintenance of Monastery/Church	By group	U Mann Win	villagers	Good
205	35	3	Maintenance of Monastery/Church	By group	U Mann Win	villagers	Good
206	37	1	Construction/maintenance of jetty/bridge	The whole village	VPDC	the whole village	Good
207	37	2	Village development	The whole village	VPDC	the whole village	Good
208	37	3	Village development	The whole village	VPDC	the whole village	Good
209	39	1	Construction of Mangrove office	The whole village	U Thant Zin Oo, U Hla Myint	the whole village	Good
210	41	1	Construction/maintenance of jetty/bridge	By group	VPDC	villagers	Good
211	41	2	Mangrove development	By group	Religious Trustee	religious group members	Good
212	41	3	Construction/maintenance of school	The whole village	School committee	villagers	Good
213	43	1	Construction/maintenance of school	The whole village	VPDC and village elders	the whole village	Good
214	43	2	Maintenance of Monastery/Church	The whole village	VPDC and village elders	the whole village	Good
215	43	3	Construction of village road	The whole village	VPDC and village elders	the whole village	Good
216	43	4	Construction/maintenance of school	The whole village	VPDC and village elders	the whole village	Good
217	45	1	Construction/maintenance of school	The whole village	U Yaw Han	VPDC & village elders	Good
218	45	2	Religious festival	By group	religious trustee	religious group member and villagers	Good
219	47	1	Construction/maintenance of school	The whole village	VPDC and village elders	the whole village	Fair
220	47	2	Construction of Mangrove office	The whole village	VPDC, village elders & CFI Group	the whole village	Good
221	47	3	Mangrove development	By group	VPDC and village elders	the whole village	Fair
222	49	1	Social occasion	The whole village	village elders	the whole village	Good
223	49	2	Construction/maintenance of school	The whole village	village elders	the whole village	Good
224	49	3	Construction of Mangrove office	The whole village	village elders	the whole village	Good
225	53	1	Construction of Mangrove office	The whole village	VPDC and village elders	the whole village	Good
226	53	2	Construction/maintenance of school	The whole village	VPDC and village elders	the whole village	Good
227	55	1	Construction of village road	The whole village	U Win	the whole village	Good
228	55	2	Construction/maintenance of jetty/bridge	The whole village	U Thant Zin Oo	the whole village	Good
229	55	3	Maintenance of Monastery/Church	The whole village	U Sein Oo	the whole village	Good
230	57	1	Maintenance of Monastery/Church	The whole village	U Hla Myint	the whole village	Good
231	57	2	Construction/maintenance of school	The whole village	U Chit Hlaing	the whole village	Good
232	59	1	Construction of Mangrove office	The whole village	U Thant Zin Oo	the whole village	Good
233	61	1	Health care	By group	Ko Thant Zin Oo	all youth villagers	Good
234	63	1	Construction/maintenance of school	The whole village	U Tin Hla	the whole village	Fair

Table 5.2-8 Cooperation Works

No.	HH	Activity no	Co-op activity	Type of system	Organizer	Participated by	Status of work
235	63	2	Maintenance of Monastery/Church	The whole village	U Chit Hlaing	the whole village	Fair
236	63	3	Maintenance of Monastery/Church	The whole village	U Mann Win	the whole village	Fair
237	63	4	Construction of Mangrove office	The whole village	U Kyin Thein	the whole village	Good
238	65	1	Maintenance of Monastery/Church	The whole village	U Chit Hlaing	villagers	Good
239	65	2	Construction of Mangrove office	The whole village	U Tin Hla	villagers	Good
240	67	1	Maintenance of Monastery/Church	The whole village	U Chit Hlaing	the whole village	Good
241	69	1	Maintenance of Monastery/Church	The whole village	U Chit Hlaing	the whole village	Fair
242	69	2	Construction/maintenance of school	The whole village	U Chit Htwe	the whole village	Good
243	71	1	Construction of Mangrove office	The whole village	Thant Zin Oo	the whole village	Good
244	71	2	Construction/maintenance of school	The whole village	Kyin Thein	the whole village	Good
245	73	1	Construction of Mangrove office	The whole village	U Hla Myint	all villagers	Good
246	75	1	Construction/maintenance of school	The whole village	U Chit Hlaing & U Tin Hla	village elders and villagers	Fair
247	75	2	Maintenance of Monastery/Church	The whole village	U Chit Hlaing & U Tin Hla	village elders and villagers	Fair
248	75	3	Maintenance of Monastery/Church	The whole village	U Chit Hlaing & U Tin Hla	village elders and villagers	Fair
249	75	4	Construction of Mangrove office	The whole village	U Tin Win	all villagers	Good
250	77	1	Construction of Mangrove office	The whole village	U Tin Win	all villagers	Good
251	81	1	To get water	The whole village	U Mann Ne	villagers	Good
252	83	1	Construction/maintenance of house	By relatives	Owner	friends and relatives	Good
253	85	1	Construction of Mangrove office	The whole village	VPDC	the whole village	Good
254	89	1	Construction/maintenance of house	By relatives	Owner	all villagers	Good
255	91	1	Mangrove development	By group	U Myint Oo	villagers	Good
256	93	1	Construction of village road	The whole village	U Myint Oo	the whole village	Good
257	93	2	To get water	The whole village	U Myint Oo	the whole village	Good
258	93	3	Village management	The whole village	U Myint Oo	the whole village	Good
259	95	1	Construction of Mangrove office	The whole village	U Myint Oo	the whole village	Good
260	97	1	Construction of village road	The whole village	U Thant Zin Oo	villagers	Good
261	97	2	Cleaning	The whole village	U Thant Zin Oo	villagers	Good
262	97	3	Maintenance of Monastery/Church	The whole village	U Thant Zin Oo	villagers	Good
263	99	1	To get water	The whole village	10 HH's Head and village elders	the whole village	Good
264	99	2	Construction of village road	The whole village	10 HH's Head and village elders	the whole village	Good
265	99	3	Maintenance of Monastery/Church	The whole village	10 HH's Head and village elders	the whole village	Good
266	99	4	Mangrove development	The whole village	10 HH's Head and village elders	the whole village	Good
267	101	1	Construction/maintenance of house	By relatives	Owner	villagers	Good
268	103	1	Maintenance of Monastery/Church	The whole village	U Hla Myint	All Villagers	Good
269	103	2	Construction/maintenance of school	The whole village	U Hla Myint	All Villagers	Good
270	105	1	Construction of village road	The whole village	U Jue	All Villagers	Good

Table 5.2-9 Participation in CF User Group

No.	HH No.	Reason for participation			Satisfy or not	Reason of nonparticipation			Suggestion		
		1	2	3		1	2	3	1	2	3
84	21	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
85	23	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
86	25	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
87	27	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
88	29	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
89	31	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
90	33	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
91	35	Getting CF plot	To be better forest	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
92	37	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
93	39	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
94	41	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
95	43	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
96	45	To conserve forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
97	47	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
98	49	None	None	None	Not applicable	Not in good health	Not able to answer	Not able to answer	Only want to advise because of own business activity	Not stated	Not stated
99	51	None	None	None	Not applicable	Not in good health	Not able to answer	Not able to answer	Only want to advise because of own business activity	Not stated	Not stated
100	53	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
101	55	None	None	None	Not applicable	Not in good health	Old age	Not able to answer	Son will participate because of old age and nospare time of HH head	Not stated	Not stated
102	57	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
103	59	None	None	None	Not applicable	Not in good health	Not able to answer	Not able to answer	Only want to advise because of own business activity	Not stated	Not stated
104	61	None	None	None	Not applicable	Don't know about CFI group formation meeting	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
105	63	To conserve forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
106	65	To increase family income/Livelihood improvement	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
107	67	To increase family income/Livelihood improvement	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
108	69	To increase family income/Livelihood improvement	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
109	71	None	None	None	Not applicable	Widow/widower	Old age	Not able to answer	Not stated	Not stated	Not stated
110	73	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
111	75	To increase family income/Livelihood improvement	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
112	77	To conserve forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
113	79	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
114	81	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
115	83	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
116	85	None	None	None	Not applicable	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
117	87	To increase family income/Livelihood improvement	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
118	89	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
119	91	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
120	93	To conserve forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
121	95	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
122	97	None	None	None	Not applicable	Not to settle down in this village	Not able to answer	Not able to answer	Can not participate because no school exists for the children	Not stated	Not stated
123	99	None	None	None	Not applicable	Busy from hand to mouth for family day to day	Not able to answer	Not able to answer	Only want to advise because of own business activity	Not stated	Not stated
124	101	Getting CF plot	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
125	103	To be better forest	None	None	Satisfy	Not able to answer	Not able to answer	Not able to answer	Not stated	Not stated	Not stated
126	105	None	None	None	Not applicable	Busy from hand to mouth for family day to day	Not able to answer	Not able to answer	Want to participate if there is alternate source of family income	Not stated	Not stated

Table 5.2-10 Participation in Village Groups Other than CF UsG

No.	Hhold No	Group or Association	Status	Reason of participation	Incentive	Satisfied with incentive
Thar Yar Kone						
1	1	CF user sub-group .2	Member	Interested in	No incentive	
2	1	Union Solidarity and Development Association (USDA)	Member	Interested in	No incentive	
3	1	Red Cross	Sergeant (Red Cross)	Nominated and selected	No incentive	
4	2	Village Development Committee	Patron	Nominated and selected	No incentive	
5	2	UG Management Committee (CF)	Patron	Nominated and selected	No incentive	
6	2	Farmers Group	Patron	Nominated and selected	No incentive	
7	2	Union Solidarity and Development Association (USDA)	Patron	Nominated and selected	No incentive	
8	2	Parent Teacher Association	Patron	Nominated and selected	No incentive	
9	4	CF user sub-group .4	Member	Interested in	No incentive	
10	4	Union Solidarity and Development Association (USDA)	Member	To help	No incentive	
11	4	Red Cross	Member	To help	No incentive	
12	7	Casual Labour Group	Member	To increase income/improving livelihood	No incentive	
13	9	Casual Labour Group	Member	Same business	No incentive	
14	3	CF user sub-group .2	Member	Urging by father and leaders	No incentive	
15	3	Village People Militia	Member	Nominated and selected	No incentive	
16	5	Village Peace and Development Council	Leader of 10 houses	To be peaceful community	No incentive	
17	5	UG Management Committee (CF)	Secretary	To increase income/improving livelihood	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
18	5	Parent Teacher Association	Member	To get children literated	Got merit (Christian)	Satisfy
19	6	Parent Teacher Association	Secretary	Hired labour	No incentive	
20	8	Mother and Child Care Association	Member	Nominated and selected	No incentive	
21	8	CF user sub-group .2	Member	Getting forest products and fire wood	No incentive	
22	8	Christian Youth Association	Leader of Christian Religious Group	Religious belief	No incentive	
23	8	CF user sub-group .4	Member	To increase income/improving livelihood	No incentive	
24	10	CF user sub-group .2	Member	To conserve forest	No incentive	
25	10	Christian Trustee Association (Thar Yar Kone)	Auditor	To make increase the religious person	No incentive	
26	10	Farmers Group	Member	To increase income/improving livelihood	No incentive	
27	10	Parent Teacher Association	Auditor	To get children literated	No incentive	
28	10	CF user sub-group .2	Member	To increase income/improving livelihood	No incentive	
29	10	Village Water Supply and Sanitation Committee	Member	To get water	No incentive	
30	11	Village Development Committee	Member	Interested in	No incentive	
31	11	CF user sub-group .4	Member	Getting forest products and fire wood	No incentive	
32	11	Farmers Group	Member	To increase income/improving livelihood	No incentive	
33	11	Parent Teacher Association	Member	To get children literated	No incentive	
34	13	Farmers Group	Member	To increase income/improving livelihood	No incentive	
35	14	CF user sub-group .2	Member	Got permission for operation of forest plot	No incentive	
36	15	CF user sub-group .2	Leader of Christian Religious Group	To help	No incentive	
37	15	Farmers Group	Member	To help	No incentive	
38	15	Parent Teacher Association	Member	To get children literated	No incentive	
39	15	Women Religious Golden Association	Member	To develop community	No incentive	
40	15	Fire Brigade	Member	To help	No incentive	
41	15	Village Development Committee	Member	To develop community	No incentive	
42	15	Red Cross	Member	To help	No incentive	
43	16	Farmers Group	Member	Same business	No incentive	
44	16	Women Religious Golden Association	Member	Religious belief	No incentive	
45	17	Casual Labour Group	Member	Interested in	No incentive	
46	18	CF user sub-group .5	Member	Got permission for operation of forest plot	Got seedlings/seeds	Satisfy
47	18	Christian Trustee Association (Thar Yar Kone)	Chairman	Nominated and selected	No incentive	
48	18	Farmers Group	Member	Interested in	No incentive	
49	18	Union Solidarity and Development Association (USDA)	Member	Interested in	No incentive	
50	18	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
51	18	Red Cross	Member	Nominated and selected	Got permission to buy uniform	Satisfy
52	19	CF user sub-group .4	Member	To conserve forest	No incentive	
53	19	Farmers Group	Leader of Christian Religious Group	Same business	No incentive	
54	19	Union Solidarity and Development Association (USDA)	Member	Interested in	No incentive	
55	19	Women Religious Golden Association	Member	Religious belief	No incentive	
56	19	Mother and Child Care Association	Member	To help	No incentive	
57	22	CF user sub-group .4	Leader of Christian Religious Group	To increase income/improving livelihood	No incentive	
58	22	Farmers Group	Member	Same business	No incentive	
59	22	Union Solidarity and Development Association (USDA)	Member	Nominated and selected	No incentive	
60	22	Fire Brigade	Leader of Christian Religious Group	Nominated and selected	No incentive	
61	22	CF user sub-group .4	Member	To increase income/improving livelihood	No incentive	
62	23	CF user sub-group .4	Member	To increase income/improving livelihood	No incentive	
63	24	Women Religious Golden Association	Pastor	No reason	No incentive	
64	26	CF user sub-group .5	Member	No reason	No incentive	
65	27	UG Management Committee (CF)	Member	To increase income/improving livelihood	No incentive	
66	27	Casual Labour Group	Member	Same business	No incentive	
67	27	Red Cross	Member	To help	No incentive	
68	28	Village Peace and Development Council	Leader of 10 houses	Nominated and selected	No incentive	
69	28	CF user sub-group .2	Member	No reason	No incentive	

Table 5.2-10 Participation in Village Groups Other than CF UsG

No.	Hhold No	Group or Association	Status	Reason of participation	Incentive	Satisfied with incentive
70	28	Red Cross	Corporal (Red Cross)	Nominated and selected	No incentive	
71	29	Casual Labour Group	Member	Same business	No incentive	
72	32	CF user sub-group .5	Member	Got permission for operation of forest plot	No incentive	
73	32	Farmers Group	Member	Same business	No incentive	
74	32	Women Religious Golden Association	Member	Religious belief	No incentive	
75	32	CF user sub-group .5	Member	Got permission for operation of forest plot	No incentive	
76	34	CF user sub-group .2	Member	Got permission for operation of forest plot	No incentive	
77	34	Women Religious Golden Association	Member	Religious belief	No incentive	
78	35	CF user sub-group .5	Member	To increase income/improving livelihood	No incentive	
79	35	Casual Labour Group	Member	Same business	No incentive	
80	40	CF user sub-group .2	Member	To increase income/improving livelihood	No incentive	
81	40	CF user sub-group .2	Member	To increase income/improving livelihood	No incentive	
82	41	CF user sub-group .5	Member	To increase income/improving livelihood	No incentive	
83	41	Village Water Supply and Sanitation Committee	Member	To get water	No incentive	
84	41	Farmers Group	Member	Same business	No incentive	
85	42	Fire Brigade	Member	Nominated and selected	No incentive	
86	43	Casual Labour Group	Member	No reason	No incentive	
87	44	CF user sub-group .5	Member	To increase income/improving livelihood	No incentive	
88	46	UG Management Committee (CF)	Member	Got permission for operation of forest plot	No incentive	
89	48	UG Management Committee (CF)	Member	Got permission for operation of forest plot	No incentive	
90	49	UG Management Committee (CF)	Member	To increase income/improving livelihood	No incentive	
91	50	CF user sub-group .1	Member	No reason	No incentive	
92	50	Village People Militia	Member	Urging by father and leaders	No incentive	
93	51	CF user sub-group .3	Member	Getting forest products and fire wood	No incentive	
94	51	Fire Brigade	Vice leader	Nominated and selected	No incentive	
95	51	Mother and Child Care Association	Member	To help	No incentive	
96	51	CF user sub-group .3	Vice leader	Getting forest products and fire wood	No incentive	
97	52	CF user sub-group .5	Leader of Christian Religious Group	No reason	Got capital money, Got a loan	Satisfy
98	52	Christian Trustee Association (Thar Yar Kone)	Leader of Christian Religious Group	Nominated and selected	No incentive	
99	52	Parent Teacher Association	Patron	To get children literated	No incentive	
100	53	Mother and Child Care Association	Auditor	To make increase the religious person	No incentive	
101	53	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
102	53	Casual Labour Group	Member	Same business	No incentive	
103	53	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
104	53	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
105	54	CF user sub-group .1	Member	No reason	No incentive	
106	54	CF user sub-group .1	Member	To conserve forest	No incentive	
107	54	Village Water Supply and Sanitation Committee	Member	To get water	No incentive	
108	54	Casual Labour Group	Member	Same business	No incentive	
109	54	Women Religious Golden Association	Member	To make increase the religious person	No incentive	
110	55	CF user sub-group .3	Member	No reason	No incentive	
111	55	CF user sub-group .3	Member	No reason	No incentive	
112	55	CF user sub-group .3	Member	No reason	No incentive	
113	56	Village Development Committee	Chairman	To develop community	No incentive	
114	56	UG Management Committee (CF)	Chairman	To conserve forest	No incentive	
115	56	Women Religious Golden Association	Leader of Christian Religious Group	Religious belief	No incentive	
116	56	Fire Brigade	Member	To be peaceful community	No incentive	
117	58	CF user sub-group .1	Member	Interested in	No incentive	
118	58	Casual Labour Group	Member	Same business	No incentive	
119	58	Women Religious Golden Association	Member	Religious belief	No incentive	
120	59	CF user sub-group .4	Member	To conserve forest	No incentive	
121	59	Women Religious Golden Association	Member	Religious belief	No incentive	
122	60	Casual Labour Group	Member	Same business	No incentive	
123	60	Women Religious Golden Association	Member	Religious belief	No incentive	
124	63	CF user sub-group .1	Member	To conserve forest	No incentive	
125	63	Village Water Supply and Sanitation Committee	Leader of Christian Religious Group	To help	No incentive	
126	63	Casual Labour Group	Member	Same business	No incentive	
127	63	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
128	64	CF user sub-group .1	Member	Got permission for operation of forest plot	No incentive	
129	64	Casual Labour Group	Member	To construct school building	No incentive	
130	64	Village People Militia	Member	To develop community	No incentive	
131	64	Women Income Generating Group	Member	To make increase the religious person	No incentive	
132	65	CF user sub-group .1	Member	Urging by force	No incentive	
133	65	CF user sub-group .1	Member	Urging by father and leaders	No incentive	
134	66	CF user sub-group .1	Member	Got permission for operation of forest plot	No incentive	
135	66	Village People Militia	Member	For community security	No incentive	
136	67	CF user sub-group .6	Member	Interested in	No incentive	
137	67	CF user sub-group .6	Member	Interested in	No incentive	
138	68	CF user sub-group .6	Member	Getting forest products and fire wood	No incentive	
139	68	CF user sub-group .6	Member	Getting forest products and fire wood	No incentive	
140	68	CF user sub-group .6	Member	Getting forest products and fire wood	No incentive	
141	68	CF user sub-group .6	Member	Getting forest products and fire wood	No incentive	
142	69	CF user sub-group .6	Member	To increase income/improving livelihood	No incentive	
143	71	CF user sub-group .5	Leader of Christian Religious Group	Nominated and selected	No incentive	
144	71	Village Water Supply and Sanitation Committee	Secretary	Nominated and selected	No incentive	
145	71	Casual Labour Group	Leader of Christian Religious Group	Same business	No incentive	
146	71	Women Religious Golden Association	Member	Religious belief	No incentive	
147	71	Fire Brigade	Member	Nominated and selected	No incentive	

Table 5.2-10 Participation in Village Groups Other than CF UsG

No.	Hhold No	Group or Association	Status	Reason of participation	Incentive	Satisfied with incentive
148	71	Red Cross	Member	Nominated and selected	No incentive	
149	73	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
150	73	Casual Labour Group	Member	Same business	No incentive	
151	73	Union Solidarity and Development Association (USDA)	Member	Interested in	No incentive	
152	73	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
153	73	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
154	74	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
155	74	Casual Labour Group	Member	Same business	No incentive	
156	74	Union Solidarity and Development Association (USDA)	Member	Get help and guidance	No incentive	
157	74	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
158	75	CF user sub-group .6	Member	To increase income/improving livelihood	No incentive	
159	76	CF user sub-group .1	Member	No reason	No incentive	
160	76	Union Solidarity and Development Association (USDA)	Member	No reason	No incentive	
161	76	Women Income Generating Group	Chairman	Nominated and selected	No incentive	
162	76	Women Religious Golden Association	Chairman	No reason	No incentive	
163	77	Mother and Child Care Association	Member	Nominated and selected	No incentive	
164	77	CF user sub-group .2	Member	No reason	No incentive	
165	77	Fire Brigade	Member	Nominated and selected	No incentive	
166	77	Women Religious Golden Association	Leader of Christian Religious Group	Religious belief	No incentive	
167	78	CF user sub-group .6	Leader of Christian Religious Group	To increase income/improving livelihood	No incentive	
168	78	Casual Labour Group	Member	Same business	No incentive	
169	78	Women Religious Golden Association	Member	Religious belief	No incentive	
170	79	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
171	79	Women Religious Golden Association	Member	Religious belief	No incentive	
172	79	CF user sub-group .1	Member	To increase income/improving livelihood	No incentive	
Nyaung Ta Pin						
173	3	CF user sub-group .4	Member	Getting forest products and fire wood	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
174	3	Women Income Generating Group	Member	Interested in	Got health education for maternity and children	Satisfy
175	5	CF user sub-group .6	Member	Religious belief	Got a 30 years lease for tree tenure in CF	Satisfy
176	5	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
177	7	CF user sub-group .6	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
178	7	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
179	9	CF user sub-group .6	Leader of Christian Religious Group	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
180	9	Buddhist Trustee	Leader of Christian Religious Group	To make increase the religious person	No incentive	
181	9	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
182	13	UG Management Committee (CF)	Accountant	To manage	No incentive	
183	13	CF user sub-group .1	Leader of Christian Religious Group	To conserve forest	Got a 30 years lease for tree tenure in CF	Satisfy
184	13	Christian Trustee Association (Thar Yar Kone)	Accountant	To make increase the religious person	Got merit (Christian)	Satisfy
185	13	Christian Youth Association	Member	Religious belief	Got merit (Christian)	Satisfy
186	13	Village Woodlot Management Committee	Member	Getting forest products and fire wood	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
187	13	Women Income Generating Group	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
188	15	CF user sub-group .6	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
189	15	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
190	17	CF user sub-group .3	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
191	17	Women Income Generating Group	Member	Getting investment, aids including loan	No incentive	
192	21	CF user sub-group .4	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
193	21	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
194	23	CF user sub-group .3	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
195	23	Women Income Generating Group	Member	Want to breed	Got capital money, Got a loan	Satisfy
196	25	CF user sub-group .3	Member	Got permission for operation of forest plot	No incentive	
197	25	Village Woodlot Management Committee	Member	To increase income/improving livelihood	No incentive	
198	27	CF user sub-group .4	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
199	27	Women Income Generating Group	Member	Getting investment, aids including loan	Got capital money, Got a loan	Satisfy
200	29	CF user sub-group .3	Leader of Christian Religious Group	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
201	29	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
202	31	CF user sub-group .1	Leader of Christian Religious Group	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
203	31	Christian Trustee Association (Thar Yar Kone)	Secretary	To make increase the religious person	Got merit (Christian)	Satisfy
204	31	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
205	33	CF user sub-group .1	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
206	33	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy

Table 5.2-10 Participation in Village Groups Other than CF UsG

No.	Hhold No	Group or Association	Status	Reason of participation	Incentive	Satisfied with incentive
207	35	CF user sub-group .4	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
208	35	Christian Youth Association	Member	Religious belief	No incentive	
209	35	Village Woodlot Management Committee	Member	Getting forest products and fire wood	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
210	35	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Not satisfy
211	37	Village Woodlot Management Committee	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
212	37	CF user sub-group .5	Member	Getting forest products and fire wood	Got a 30 years lease for tree tenure in CF	Satisfy
213	37	Village People Militia	Leader of Christian Religious Group	For community security	No incentive	
214	37	Women Religious Golden Association	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
215	39	UG Management Committee (CF)	Chairman	To conserve forest	No incentive	
216	39	CF user sub-group .1	Member	To conserve forest	Got a 30 years lease for tree tenure in CF	Satisfy
217	41	CF user sub-group .1	Recorder	Got permission for operation of forest plot	Got capital money, Got a loan	Satisfy
218	41	Christian Trustee Association (Thar Yar Kone)	Leader of Christian Religious Group	To make increase the religious person	No incentive	
219	41	Parent Teacher Association	Treasurer	To get children literated	No incentive	
220	41	Village Woodlot Management Committee	Treasurer	Getting forest products and fire wood	Got seedlings/seeds	Satisfy
221	41	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
222	41	Christian Youth Association	Vice leader	Religious belief	No incentive	
223	41	Christian Youth Association	Member	Religious belief	No incentive	
224	43	CF user sub-group .4	Leader of Christian Religious Group	To conserve forest	No incentive	
225	43	Christian Trustee Association (Thar Yar Kone)	Member	To make increase the religious person	No incentive	
226	43	Union Solidarity and Development Association (USDA)	Organizer	Nominated and selected	No incentive	
227	43	Union Solidarity and Development Association (USDA)	Member	Nominated and selected	No incentive	
228	45	CF user sub-group .1	Member	To conserve forest	No incentive	
229	47	UG Management Committee (CF)	Secretary	Nominated and selected	No incentive	
230	47	CF user sub-group .5	Member	To conserve forest	No incentive	
231	53	CF user sub-group .2	Member	To conserve forest	No incentive	
232	53	Christian Youth Association	Member	To make increase the religious person	No incentive	
233	55	Christian Trustee Association (Thar Yar Kone)	Auditor	Religious belief	No incentive	
234	57	CF user sub-group .5	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
235	63	CF user sub-group .2	Recorder	To conserve forest	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
236	63	Parent Teacher Association	Secretary	To get children literated	No incentive	
237	63	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
238	65	CF user sub-group .2	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
239	65	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
240	67	CF user sub-group .2	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
241	69	CF user sub-group .5	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
242	69	Women Income Generating Group	Leader of Christian Religious Group	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
243	73	CF user sub-group .5	Member	Got permission for operation of forest plot	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
244	73	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
245	75	CF user sub-group .5	Member	To conserve forest	IG from fuel wood and wood, Got fuel wood, Can use wood from own plot	Satisfy
246	77	CF user sub-group .5	Leader of Christian Religious Group	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
247	77	Buddhist Trustee	Member	To construct monastery	No incentive	
248	77	Parent Teacher Association	Treasurer	To construct school building	No incentive	
249	77	Village Peace and Development Council	Leader of 100 houses	To be peaceful community	No incentive	
250	79	CF user sub-group .8	Member	Got permission for operation of forest plot	Got a 30 years lease for tree tenure in CF	Satisfy
251	81	CF user sub-group .3	Member	To conserve forest	Got a 30 years lease for tree tenure in CF	Satisfy
252	81	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
253	83	CF user sub-group .9	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
254	83	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
255	85	CF user sub-group .8	Member	Got permission for operation of forest plot	No incentive	
256	87	CF user sub-group .8	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
257	89	CF user sub-group .9	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
258	89	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
259	91	CF user sub-group .9	Member	To conserve forest	Got a 30 years lease for tree tenure in CF	Satisfy
260	91	Women Income Generating Group	Member	To increase income/improving livelihood	Got capital money, Got a loan	Satisfy
261	93	CF user sub-group .9	Member	To conserve forest	No incentive	

Table 5.2-10 Participation in Village Groups Other than CF UsG

No.	Hhold No	Group or Association	Status	Reason of participation	Incentive	Satisfied with incentive
262	95	CF user sub-group .8	Member	Got permission for operation of forest plot	No incentive	
263	101	CF user sub-group .4	Member	To increase income/improving livelihood	Got a 30 years lease for tree tenure in CF	Satisfy
264	101	Women Income Generating Group	Member	To increase income/improving livelihood	No incentive	
265	103	CF user sub-group .7	Leader of Christian Religious Group	To improve living standard	Got a 30 years lease for tree tenure in CF	Satisfy

Table 5.2-11 Participation in Village Groups

No.	HH No.	Group	Respondent's Role and Activity	is there by-law or Rules	Role and Activity of Normal routing	Assessment of previous accomplishment	Obstacles	Assesment on Group leader
Thar Yar Kone								
1	1	Red Cross	No	Yes	Vaccination of infants, Giving voluntary services in health sector, Help the patients to go to clinics	Helping the health care to other is good for all	Insufficient funds, no uniform	Honest, reliable, intelligent and has vision of the group
2	1	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	More we work more we get from quota plot	Work hard but no appreciation cause disappointment	Honest, reliable, intelligent and has vision of the group
3	1	Union Solidarity and Development Association (USDA)	No	Don't know	No	Good, succeed	No	The Leader is not honest
4	1	Not involve in group	No	Don't know	No	No/Don't know	No	The Leader is not honest
5	2	Parent Teacher Association	President, Patron	Yes	Support the teachers, Manage to get teacher, Deal with AyarTaw school to sanction affiliated school, Consult in PTA's monetary affairs, Temporary fund raising for PTA, Temporary fund raising for PTA,Renovation of school building	Bear patiently to miss understand members	No	Honest, reliable, intelligent and has vision of the group
6	2	UG Management Committee (CF)	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	To avoid no labour charges for workdone of quota assignment	No	Honest, reliable, intelligent and has vision of the group
7	2	Village Development Committee	President, Patron	Yes	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	Every body should contribute	Needs good leader	The Leader is not honest
8	2	Farmers Group	Guide in the community affairs, Participated in community celebrations and ceremonies, Security of community	Yes	No	Organized the personwho has no vision	Required cargo boats for carrying paddy and farm products	Honest, reliable, intelligent and has vision of the group
9	2	Union Solidarity and Development Association (USDA)	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
10	4	CF user sub-group .4	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	Not done yet	No	Honest, reliable, intelligent and has vision of the group
11	4	Red Cross	No	Don't know	Vaccination of infants, Giving voluntary services in health sector, Help the patients to go to clinics	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
12	7	Not involve in group	No	Don't know	No	No/Don't know	No	The Leader is not honest
13	7	Casual Labour Group	No	No	No	No/Don't know	No	Honest and reliable
14	9	Casual Labour Group	No	Don't know	No	Participated in, help with other	Scarcity of farm implements	The Leader is not honest
15	3	CF user sub-group .2	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Always do the jobs of absentee	No	Honest, reliable, intelligent and has vision of the group
16	5	Parent Teacher Association	Member, Member of sub-committee	Yes	No	Help with each other will solve difficulties	No	Honest, reliable and intelligent
17	5	Village Peace and Development Council	No	Yes	No	Lack of cooperation, coordination, no regular activity and only response on incoming request/demand	No	Honest, reliable and intelligent
18	5	UG Management Committee (CF)	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Not succeed/fail/inconvenient	No	Honest, reliable and intelligent
19	5	Village Peace and Development Council	No	Yes	No	Lack of cooperation, coordination, no regular activity and only response on incoming request/demand	No	Honest, reliable and intelligent
20	6	Parent Teacher Association	No	Don't know	No	No/Don't know	Scarcity of teacher	The Leader is not honest
21	8	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Always do the jobs of absentee	No	Honest and reliable
22	8	Mother and Child Care Association	No	Don't know	No	No/Don't know	No	The Leader is not honest
23	10	Farmers Group	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Work together will get unity, strength and good job	Forest thief is present due not to visit CF site	Honest, reliable and intelligent
24	10	Village Water Supply and Sanitation Committee	No	Don't know	No	Participated in, help with other	Scarcity of agriculturable water	Honest, reliable and intelligent
25	10	Parent Teacher Association	No	Yes	No	Help with each other will solve difficulties	Scarcity of teacher	Honest, reliable, intelligent and has vision of the group
26	10	Christian Trustee Association (Thar Yar Kone)	No	Don't know	Fund collection to use for Beikku, Fund and rice collection to use for Beikku/priest, Video show for fund raising, Collected Ks.1500 from each religious member and sent the fund to the authority	Participated in, help with other	Paster is required	Honest, reliable, intelligent and has vision of the group
27	10	CF user sub-group .2	No	Yes	No	Group/individual work with coordination and help mutually	Difficult to get affiliated school	Honest, reliable, intelligent and has vision of the group
28	10	CF user sub-group .2	No	Yes	No	No/Don't know	No	Honest, reliable and intelligent
29	11	Village Development Committee	No	Yes	Support the teachers, Manage to get teacher, Deal with AyarTaw school to sanction affiliated school, Consult in PTA's monetary affairs, Temporary fund raising for PTA, Temporary fund raising for PTA,Renovation of school building	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
30	11	Parent Teacher Association	No	Yes	Support the teachers, Manage to get teacher, Deal with AyarTaw school to sanction affiliated school, Consult in PTA's monetary affairs, Temporary fund raising for PTA, Temporary fund raising for PTA,Renovation of school building	Group/individual work with coordination and help mutually	No	Honest, reliable, intelligent and has vision of the group
31	11	Farmers Group	No	No	Help in selling quota rice, Buying merchandises according to invoice	Help with each other will solve difficulties	No	Honest, reliable, intelligent and has vision of the group
32	11	CF user sub-group .4	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Group/individual work with coordination and help	No	Honest, reliable, intelligent and has vision of the group
33	13	Farmers Group	No	No	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	Help with each other will solve difficulties	Required technical knowledge	Honest, reliable, intelligent and has vision of the group
34	14	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Participated in, help with other	No equity in area of quota plot within members	Honest, reliable and intelligent
35	15	Fire Brigade	No	Yes	Inspection of fire extinguishing materials(fire hook, fire flap, etc.), Agitating for prevention of fire	Lack of cooperation, coordination, no regular activity and only response on incoming request/demand	No	Honest, reliable and intelligent
36	15	Village Development Committee	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Partially succeed in activity	No	Honest, reliable, intelligent and has vision of the group
37	15	Red Cross	No	Don't know	Vaccination of infants, Giving voluntary services in health sector, Help the patients to go to clinics	Help with each other will solve difficulties	No	Honest, reliable and intelligent
38	15	Farmers Group	No	No	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
39	15	Parent Teacher Association	No	Don't know	Support the teachers, Manage to get teacher, Deal with AyarTaw school to sanction affiliated school, Consult in PTA's monetary affairs, Temporary fund raising for PTA, Temporary fund raising for PTA,Renovation of school building	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
40	15	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	No	The Leader is not honest
41	15	Women Religious Golden Association	No	Yes	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
42	16	Women Religious Golden Association	No	No	No	Help with each other will solve difficulties	No	Honest, reliable, intelligent and has vision of the group
43	16	Farmers Group	No	No	No	No/Don't know	No	Honest, reliable and intelligent
44	17	Casual Labour Group	No	No	No	No/Don't know	No	Honest, reliable and intelligent
45	18	Farmers Group	No	No	No	No/Don't know	No	Honest and reliable
46	18	CF user sub-group .5	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	Forest thief is present due not to visit CF site	Honest, reliable, intelligent and has vision of the group
47	18	Christian Trustee Association (Thar Yar Kone)	President, Patron	Yes	Teaching religious ethics/mobilize for religious activities, Reading Bible,Mobilize to participate in quaterly community, God blessing	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
48	19	CF user sub-group .4	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
49	19	Farmers Group	No	No	Help in selling quota rice, Buying merchandises according to invoice	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
50	19	Union Solidarity and Development Association (USDA)	No	Yes	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	No/Don't know	No	Honest, reliable, intelligent and has vision of the group

Table 5.2-11 Participation in Village Groups

No.	HH No.	Group	Respondent's Role and Activity	is there by-law or Rules	Role and Activity of Normal routing	Assessment of previous accomplishment	Obstacles	Assesment on Group leader
51	19	Mother and Child Care Association	No	Don't know	Vaccination of infants, Giving voluntary services in health sector, Help the patients to go to clinics	Lack of cooperation, coordination, no regular activity and only response on incoming request/demand	No	Honest, reliable and intelligent
52	19	Women Religious Golden Association	No	Yes	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
53	22	Fire Brigade	No	Yes	Inspection of fire extinguishing materials(fire hook, fire flap, etc..), Agitating for prevention of fire	Group/individual work with coordination and help mutually	No	The Leader is not honest
54	22	CF user sub-group .4	No	Don't know	No	No/Don't know	No	Honest, reliable and intelligent
55	22	CF user sub-group .4	No	Yes	Vaccination of infants, Giving voluntary services in health sector, Help the patients to go to clinics	Good, succeed	No	The Leader is not honest
56	23	CF user sub-group .4	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	No/Don't know	No	Honest, reliable and intelligent
57	23	CF user sub-group .4	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	More we work more we get from quota plot	No	Honest, reliable and intelligent
58	26	CF user sub-group .5	No	Don't know	No	No/Don't know	No	The Leader is not honest
59	27	Red Cross	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
60	27	UG Management Committee (CF)	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Working with member who are taking much care in cooperative work is bad. Individual implementation is rather good	No	The Leader is not honest
61	27	Casual Labour Group	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
62	28	Red Cross	No	Don't know	No	No/Don't know	No	Honest and reliable
63	28	Village Peace and Development Council	No	Yes	Renovate the road	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
64	28	CF user sub-group .2	Member, Member of sub-committee	Yes	No	Group/individual work with coordination and help	No	Honest, reliable and intelligent
65	29	Casual Labour Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
66	32	CF user sub-group .5	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
67	32	Farmers Group	No	No	No	Group/individual work with coordination and help	No	Honest, reliable, intelligent and has vision of the group
68	32	Women Religious Golden Association	No	Yes	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
69	32	CF user sub-group .5	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	No	Honest, reliable and intelligent
70	34	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	No	Honest, reliable and intelligent
71	34	Women Religious Golden Association	No	Yes	No	Group/individual work with coordination and help	No	Honest, reliable and intelligent
72	35	Casual Labour Group	No	Don't know	No	No/Don't know	No	Honest, reliable and intelligent
73	35	CF user sub-group .5	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Partially succeed in activity	No	Honest, reliable, intelligent and has vision of the group
74	40	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	No	Honest, reliable and intelligent
75	40	CF user sub-group .2	No	No	No	Satisfied	No	Honest, reliable and intelligent
76	41	Village Water Supply and Sanitation Committee	No	No	No	Good, succeed	No	Honest, reliable and intelligent
77	41	CF user sub-group .5	No	No	Weeding, Patching, Conservation, Packaged the seeds	Should have regularly active	No	Honest, reliable, intelligent and has vision of the group
78	41	Farmers Group	No	Don't know	No	Group/individual work with coordination and help	No	Honest, reliable, intelligent and has vision of the group
79	42	Fire Brigade	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
80	43	Casual Labour Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
81	44	CF user sub-group .5	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	More we work more we get from quota plot	Forest thief is present due not to visit CF site	The Leader is not honest
82	46	UG Management Committee (CF)	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Has not involve in group, for self interest	Having less area of assigned quota plot area due to encroachment of adjoining field	Honest, reliable, intelligent and has vision of the group
83	48	UG Management Committee (CF)	No	Don't know	No	Much paper works,principles are good but implementer are not good	No unity, no systematic implementation	The Leader is not honest
84	49	UG Management Committee (CF)	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Has not involve in group, for self interest	No	Honest, reliable, intelligent and has vision of the group
85	50	CF user sub-group .1	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	Group/individual work with coordination and help	No	Honest, reliable, intelligent and has vision of the group
86	51	Mother and Child Care Association	No	No	Weeding, Patching, Conservation, Packaged the seeds	No/Don't know	No	Honest, reliable and intelligent
87	51	CF user sub-group .3	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Partially succeed in activity	No	Honest, reliable and intelligent
88	51	Fire Brigade	No	Yes	Inspection of fire extinguishing materials(fire hook, fire flap, etc..), Agitating for prevention of fire	Partially succeed in activity	No	Honest, reliable and intelligent
89	52	Parent Teacher Association	No	Yes	Support the teachers, Manage to get teacher, Deal with AyarTaw school to sanction affiliated school, Consult in PTA's monetary affairs, Temporary fund raising for PTA, Temporary fund raising for PTA,Renovation of school building	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
90	53	Casual Labour Group	No	No	No	No/Don't know	No	The Leader is not honest
91	53	Women Income Generating Group	No	Don't know	Livestock breeding, Participated in IGG	Not succeed/fail/inconvenient	No money to breed pigs	The Leader is not honest
92	53	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Partially succeed in activity	No	Honest and reliable
93	53	CF user sub-group .1	No	Yes	No	No/Don't know	No	Honest, reliable and intelligent
94	54	Women Religious Golden Association	No	Yes	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	Partially succeed in activity	No	Honest, reliable, intelligent and has vision of the group
95	54	Village Water Supply and Sanitation Committee	No	Don't know	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	Good, succeed	No	Honest, reliable and intelligent
96	54	Casual Labour Group	No	No	No	No/Don't know	No	Honest and reliable
97	54	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	No	Honest, reliable and intelligent
98	54	CF user sub-group .1	No	Don't know	No	Satisfied	No	The Leader is not honest
99	56	Fire Brigade	No	No	Inspection of fire extinguishing materials(fire hook, fire flap, etc..), Agitating for prevention of fire	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
100	56	Village Development Committee	No	No	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	Partially succeed in activity	No	Honest, reliable, intelligent and has vision of the group
101	56	Women Religious Golden Association	No	No	Teaching religious ethics/mobilize for religious activities, Reading Bible,Mobilize to participate in qaterly community, God blessing	Help with each other will solve difficulties	No	Honest, reliable, intelligent and has vision of the group
102	56	UG Management Committee (CF)	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	Less participation in group activities	No	Honest, reliable, intelligent and has vision of the group
103	58	Women Religious Golden Association	No	Yes	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Work together will get unity, strength and good job	No	Honest, reliable, intelligent and has vision of the group
104	58	Casual Labour Group	No	No	No	Has not involve in group, for self interest	No	Honest and reliable
105	58	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	More we work more we get from quota plot	No	The Leader is not honest
106	59	CF user sub-group .4	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Has not involve in group, for self interest	No	Honest, reliable, intelligent and has vision of the group
107	59	Women Religious Golden Association	No	Yes	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
108	60	Women Religious Golden Association	No	Yes	Teaching religious ethics/mobilize for religious activities, Reading Bible,Mobilize to participate in qaterly community, God blessing	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group

Table 5.2-11 Participation in Village Groups

No.	HH No.	Group	Respondent's Role and Activity	is inter by-law or Rules	Role and Activity of Normal routing	Assessment of previous accomplishment	Obstacles	Assement on Group leader
109	60	Casual Labour Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
110	63	Village Water Supply and Sanitation Committee	No	No	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
111	63	CF user sub-group .1	No	Yes	No	Partially succeed in activity	No	Honest, reliable, intelligent and has vision of the group
112	64	Casual Labour Group	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
113	64	Village People Militia	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
114	64	CF user sub-group .1	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	Working with member who are taking much care in cooperative work is bad. Individual implementation is rather good	No	Honest, reliable, intelligent and has vision of the group
115	64	Women Income Generating Group	No	Don't know	Help in selling quota rice, Buying merchandises according to invoice	Always do the jobs of absentee	Frequently disturbed by windy weather	Honest, reliable, intelligent and has vision of the group
116	65	CF user sub-group .1	No	No	Weeding, Patching, Conservation, Packaged the seeds	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
117	66	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Group/individual work with coordination and help	No	Honest, reliable, intelligent and has vision of the group
118	67	CF user sub-group .6	No	Don't know	No	No/Don't know	No	Honest and reliable
119	68	CF user sub-group .6	No	Don't know	No	No/Don't know	No	The Leader is not honest
120	69	CF user sub-group .6	No	Don't know	No	No/Don't know	No	Honest, reliable and intelligent
121	71	Casual Labour Group	No	No	No	No/Don't know	No	The Leader is not honest
122	71	Village Water Supply and Sanitation Committee	No	Don't know	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	Group/individual work with coordination and help mutually	No	Honest, reliable, intelligent and has vision of the group
123	71	Red Cross	No	Don't know	No	No/Don't know	No	Honest and reliable
124	71	Fire Brigade	No	Don't know	Inspection of fire extinguishing materials(fire hook, fire flap, etc..), Agitating for prevention of fire	Group/individual work with coordination and help mutually	Rules, regulations, instructions should prepared as order that everybody can follow	Honest, reliable, intelligent and has vision of the group
125	71	Women Religious Golden Association	No	Yes	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Can not work individual, cooperation is the best	No	Honest, reliable, intelligent and has vision of the group
126	71	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Working with member who are taking much care in cooperative work is bad. Individual implementation is rather good	Needs good leader	Honest, reliable, intelligent and has vision of the group
127	73	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
128	73	Casual Labour Group	No	No	No	No/Don't know	Poor in life living	Honest, reliable, intelligent and has vision of the group
129	73	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	Forest thief is present due not to visit CF site	Honest, reliable, intelligent and has vision of the group
130	74	Casual Labour Group	No	Yes	No	No/Don't know	Scarcity of farm implements	Honest, reliable, intelligent and has vision of the group
131	74	CF user sub-group .1	No	Yes	No	Satisfied	Scarcity of farm implements	Honest, reliable, intelligent and has vision of the group
132	74	CF user sub-group .1	No	Yes	No	Should have regularly active	Can work due to old age	Honest, reliable, intelligent and has vision of the group
133	75	CF user sub-group .6	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
134	76	Women Income Generating Group	President, Patron	Don't know	No	No/Don't know	No	The Leader is not honest
135	76	CF user sub-group .1	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Always do the jobs of absentee	No	Honest, reliable, intelligent and has vision of the group
136	77	Fire Brigade	No	Don't know	Inspection of fire extinguishing materials(fire hook, fire flap, etc..), Agitating for prevention of fire	Group/individual work with coordination and help	No	Honest, reliable and intelligent
137	77	CF user sub-group .2	No	Yes	Weeding, Patching, Conservation, Packaged the seeds	Group/individual work with coordination and help	No	Honest, reliable, intelligent and has vision of the group
138	78	Casual Labour Group	No	Don't know	No	No/Don't know	No	Honest and reliable
139	78	Women Religious Golden Association	No	Yes	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
140	78	CF user sub-group .6	No	Yes	Cadastral survey/soil test/clearing	Participated in, help with other	Scarcity of farm implements	The Leader is not honest
141	79	Village Peace and Development Council	No	No	Conservation of environment, Digging wells and ponds, Collective Sanitation work for the church, Renovation and sanitation works for wells, Mobilize to construct fly proof latrines	Group/individual work with coordination and help mutually	No	Honest, reliable, intelligent and has vision of the group
142	79	CF user sub-group .1	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
Nyaung Ta Pin								
143	3	CF user sub-group .4	No	Don't know	No	No/Don't know	Scarcity of farm implements	Honest and reliable
144	3	Women Income Generating Group	Member, Member of sub-committee	Don't know	Vaccination of infants, Giving volutary services in health sector, Help the patients to go to clinics	Participated in, help with other	No	Honest, reliable and intelligent
145	5	CF user sub-group .6	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
146	5	Women Income Generating Group	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
147	7	Women Income Generating Group	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
148	7	CF user sub-group .6	Member, Member of sub-committee	Yes	Attending the meeting, Conducting qaterly meeting, Attending the meeting at Yetwinseik	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
149	9	Women Income Generating Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
150	9	Buddhist Trustee	President, Patron	No	Fund collection to use for Beikku, Fund and rice collection to use for Beikku/priest, Video show for fund raising, Collected Ks.1500 from each religious member and sent the fund to the authority	Good, succeed	Not enough fund collection	The Leader is not honest
151	9	CF user sub-group .6	Member, Member of sub-committee	Yes	No	No/Don't know	No	The Leader is not honest
152	13	Christian Youth Association	Member, Member of sub-committee	Yes	Teaching religious ethics/mobilize for religious activities, Reading Bible,Mobilize to participate in qaterly community, God blessing	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
153	13	CF user sub-group .1	Leader, Dy leader	Yes	No	No/Don't know	No	The Leader is not honest
154	13	Village Woodlot Management	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Participated in, help with other	Poor in life living	Honest, reliable, intelligent and has vision of the group
155	13	Christian Trustee Association (Thar Yar Kone)	No	Yes	Book keeping, Auditing	Participated in, help with other	No	Honest and reliable
156	13	Women Income Generating Group	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
157	13	UG Management Committee (CF)	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
158	15	CF user sub-group .6	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
159	15	Women Income Generating Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
160	17	Women Income Generating Group	No	Don't know	No	No/Don't know	Not avaiable crossbreed chicken	Honest, reliable and intelligent
161	17	CF user sub-group .3	Member, Member of sub-committee	Yes	No	No/Don't know	Poor in life living	Honest, reliable, intelligent and has vision of the group
162	21	CF user sub-group .4	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
163	21	Women Income Generating Group	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
164	23	Women Income Generating Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
165	23	CF user sub-group .3	Member, Member of sub-committee	Don't know	Cadastral survey/soil test/clearing	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
166	25	Village Woodlot Management Committee	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Soil and plant species was not matched	Not right instruction for planting species on present soil condition	Honest, reliable, intelligent and has vision of the group
167	25	CF user sub-group .3	No	Yes	No	No/Don't know	No	Honest, reliable and intelligent
168	27	Women Income Generating Group	Member, Member of sub-committee	Yes	No	Not succeed/fail/inconvenient	Poor in life living	Honest, reliable, intelligent and has vision of the group
169	27	CF user sub-group .4	No	Yes	Cadastral survey/soil test/clearing	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
170	29	CF user sub-group .3	Leader, Dy leader	Yes	No	No/Don't know	No	The Leader is not honest
171	29	Women Income Generating Group	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
172	31	CF user sub-group .1	Leader, Dy leader	Yes	Cadastral survey/soil test/clearing	No/Don't know	No	The Leader is not honest
173	31	Women Income Generating Group	No	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
174	31	Christian Trustee Association (Thar Yar Kone)	Secretary	Yes	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Good, succeed	No	Honest, reliable, intelligent and has vision of the group
175	33	CF user sub-group .1	Member, Member of sub-committee	Yes	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
176	33	Women Income Generating Group	Member, Member of sub-committee	Yes	No	Not succeed/fail/inconvenient	Difficult in transportation	Honest, reliable, intelligent and has vision of the group

Table 5.2-11 Participation in Village Groups

No.	HH No.	Group	Respondent's Role and Activity	is tier by-law or Rules	Role and Activity of Normal routing	Assessment of previous accomplishment	Obstacles	Assement on Group leader
177	35	CF user sub-group .4	Member, Member of sub-committee	Yes	No	No/Don't know	Scaricity of farm implements	Honest, reliable, intelligent and has vision of the group
178	35	Christian Youth Association	No	Yes	Study tour to adjacent villages	Participated in, help with other	No	Honest, reliable, intelligent and has vision of the group
179	35	Village Woodlot Management Committee	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Participated in, help with other	Not right instruction for planting species on present soil condition	Honest, reliable, intelligent and has vision of the group
180	35	Women Income Generating Group	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
181	37	Village Woodlot Management Committee	Member, Member of sub-committee	Yes	No	Soil and plant species was not matched	Not right instruction for planting species on present soil condition	Honest, reliable, intelligent and has vision of the group
182	37	Village People Militia	Member, Member of sub-committee	Yes	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	Participated in, help with other	No	The Leader is not honest
183	37	CF user sub-group .5	Member, Member of sub-committee	Yes	Cadastral survey/soil test/clearing	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
184	39	CF user sub-group .1	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Good, succeed	Scaricity of farm implements	Honest, reliable and intelligent
185	39	UG Management Committee (CF)	President, Patron	Yes	Weeding, Patching, Conservation, Packaged the seeds	Satisfied	Poor in life living	The Leader is not honest
186	41	Village Woodlot Management	Accountant(recorder), Auditor, Treasurer	No	No	Partially succeed in activity	Required technical knowledge	Honest, reliable and intelligent
187	41	Women Income Generating Group	Member, Member of sub-committee	Yes	Livestock breeding, Participated in IGG	Partially succeed in activity	No	Honest and reliable
188	41	Christian Youth Association	Member, Member of sub-committee	No	Fund collection to use for Beikku, Fund and rice collection to use for Beikku/priest, Video show for fund raising, Collected Ks.1500 from each religious member and sent the fund to the authority	Good, succeed	No	Honest, reliable and intelligent
189	41	CF user sub-group .1	Accountant(recorder), Auditor, Treasurer	Yes	Cadastral survey/soil test/clearing	Satisfied	Scaricity of farm implements	Honest, reliable and intelligent
190	41	Parent Teacher Association	Accountant(recorder), Auditor, Treasurer	No	Fund collection to use for Beikku, Fund and rice collection to use for Beikku/priest, Video show for fund raising, Collected Ks.1500 from each religious member and sent the fund to the authority	Partially succeed in activity	Insufficient funds, no uniform	Honest, reliable and intelligent
191	41	Christian Trustee Association (Thar Yar Kone)	Leader, Dy leader	No	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	Satisfied	No	Honest, reliable and intelligent
192	41	Christian Youth Association	Leader, Dy leader	No	Teaching religious ethics/mobilize for religious activities, Reading Bible.Mobilize to participate in qaterly community, God blessing	Satisfied	No	Honest, reliable and intelligent
193	43	Christian Trustee Association (Thar Yar Kone)	Member, Member of sub-committee	No	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Good, succeed	Insufficient funds, no uniform	Honest and reliable
194	43	Union Solidarity and Development Association (USDA)	No	Yes	No	No/Don't know	No	The Leader is not honest
195	43	CF user sub-group .4	Leader, Dy leader	Yes	Weeding, Patching, Conservation, Packaged the seeds	Satisfied	Scaricity of farm implements	The Leader is not honest
196	45	CF user sub-group .1	No	Don't know	No	No/Don't know	No	Honest, reliable and intelligent
197	47	UG Management Committee (CF)	Secretary	Yes	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	No/Don't know	Difficult to protect	Honest and reliable
198	53	Christian Youth Association	Member, Member of sub-committee	No	Fund collection to use for Beikku, Fund and rice collection to use for Beikku/priest, Video show for fund raising, Collected Ks.1500 from each religious member and sent the fund to the authority	Satisfied	No	Honest and reliable
199	53	CF user sub-group .2	Member, Member of sub-committee	Yes	No	No/Don't know	Scaricity of farm implements	Honest, reliable and intelligent
200	55	Christian Trustee Association (Thar Yar Kone)	Accountant(recorder), Auditor, Treasurer	No	No	No/Don't know	No	Honest, reliable and intelligent
201	57	CF user sub-group .5	Member, Member of sub-committee	Yes	Cadastral survey/soil test/clearing	No/Don't know	Scaricity of farm implements	Honest, reliable, intelligent and has vision of the group
202	63	CF user sub-group .2	Accountant(recorder), Auditor, Treasurer	Yes	Cadastral survey/soil test/clearing	Satisfied	Difficult to collect wages of teacher	Honest, reliable, intelligent and has vision of the group
203	63	Women Income Generating Group	Member, Member of sub-committee	No	Leader of 10 HHs, Leader of 100 HHs	Every body should contribute	Forest thief is present due not to visit CF site	Honest, reliable and intelligent
204	63	Parent Teacher Association	Secretary	No	Attending the meeting, Conducting qaterly meeting, Attending the meeting at Yetwinseik	Partially succeed in activity	Difficult to get affiliated school	Honest, reliable and intelligent
205	65	CF user sub-group .2	No	Don't know	Cadastral survey/soil test/clearing	Satisfied	Poor in life living	Honest, reliable and intelligent
206	65	Women Income Generating Group	No	Don't know	Livestock breeding, Participated in IGG	Not succeed/fail/inconvenient	No	Honest, reliable and intelligent
207	67	Village Development Committee	No	Don't know	Cadastral survey/soil test/clearing	Satisfied	Scaricity of farm implements	Honest, reliable and intelligent
208	69	Women Income Generating Group	Leader, Dy leader	Yes	Livestock breeding, Participated in IGG	Good, succeed	No	Honest, reliable and intelligent
209	69	CF user sub-group .5	Member, Member of sub-committee	Don't know	Cadastral survey/soil test/clearing	No/Don't know	Scaricity of farm implements	Honest, reliable, intelligent and has vision of the group
210	73	Women Income Generating Group	Member, Member of sub-committee	Yes	No	Partially succeed in activity	No	Honest, reliable and intelligent
211	73	CF user sub-group .5	Member, Member of sub-committee	Yes	No	Good, succeed	Poor in life living	Honest, reliable and intelligent
212	75	CF user sub-group .2	No	Don't know	Weeding, Patching, Conservation, Packaged the seeds	No/Don't know	Scaricity of farm implements	Honest, reliable and intelligent
213	77	Buddhist Trustee	Member, Member of sub-committee	No	Help the priest, Help the Beikku, Renovated church building, Renovated monestary	Good, succeed	Insufficient funds, no uniform	The Leader is honest
214	77	Village Peace and Development Council	Leader of 10 HHs/10 HHs	Yes	For peace and development of community, Assigned duties in celebrations and ceremonies, Internal relation, Security of the community	Good, succeed	Poor in life living	Honest and reliable
215	77	Parent Teacher Association	Accountant(recorder), Auditor, Treasurer	No	Support the teachers, Manage to get teacher, Deal with AyarTaw school to sanction affiliated school, Consult in PTA's monetary affairs, Temporary fund raising for PTA, Temporary fund raising for PTA,Renovation of school building	Partially succeed in activity	Insufficient funds, no uniform	Honest and reliable
216	77	CF user sub-group .5	Member, Member of sub-committee	Yes	No	No/Don't know	No	Honest, reliable and intelligent
217	79	CF user sub-group .8	Member, Member of sub-committee	Yes	Cadastral survey/soil test/clearing	Satisfied	Poor in life living	The Leader is not honest
218	81	Women Income Generating Group	No	Don't know	No	No/Don't know	No	Honest, reliable and intelligent
219	81	CF user sub-group .3	Member, Member of sub-committee	Yes	No	No/Don't know	Poor in life living	The Leader is not honest
220	83	Women Income Generating Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
221	83	CF user sub-group .9	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
222	85	Village Peace and Development Council	No	Don't know	Book keeping, Auditing	No/Don't know	Scaricity of farm implements	Honest, reliable and intelligent
223	87	CF user sub-group .8	Member, Member of sub-committee	Yes	Cadastral survey/soil test/clearing	Satisfied	Poor in life living	Honest, reliable, intelligent and has vision of the group
224	89	Women Income Generating Group	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
225	89	CF user sub-group .9	No	Don't know	No	No/Don't know	No	Honest, reliable, intelligent and has vision of the group
226	91	Women Income Generating Group	No	Don't know	No	No/Don't know	No	The Leader is honest
227	91	CF user sub-group .9	Member, Member of sub-committee	Yes	No	No/Don't know	Poor in life living	Honest, reliable, intelligent and has vision of the group
228	93	CF user sub-group .9	Member, Member of sub-committee	Yes	Weeding, Patching, Conservation, Packaged the seeds	Satisfied	No	Honest, reliable and intelligent
229	95	CF user sub-group .8	No	Don't know	No	No/Don't know	No	Honest, reliable and intelligent
230	101	CF user sub-group .4	No	Yes	No	No/Don't know	No	Honest and reliable
231	101	Women Income Generating Group	No	Don't know	No	No/Don't know	No	The Leader is not honest
232	103	CF user sub-group .7	Leader, Dy leader	Yes	Weeding, Patching, Conservation, Packaged the seeds	Satisfied	Scaricity of farm implements	Honest, reliable and intelligent

Table 5.2-12 Household Production (Input)

No.	HH No.	Production name	Input item	Place of purchase	Place of origin	Unit	No of purchase	Unit price
Thar Yar Kone								
1	3	Paddy	Seed	Own	Own	basket	0	0
2	2	Paddy	Hoe	Thit Poke	Don't know	no	4	800
3	4	Crabs	Crab	in village	Don't know	no	200	50
4	4	Crabs	Bait	in village	Don't know	viss	150	200
5	7	Crabs	Bamboo	in village	Don't know	no	200	50
6	7	Crabs	Bait	in village	in village	viss	250	200
7	9	Crabs	Bamboo	in village	in village	no	200	50
8	9	Crabs	Bait	in village	in village	viss	200	200
9	3	Fuel Wood	Jungle boots	Thit Poke	Don't know	no	3	1,200
10	3	Fuel Wood	Forest knife	Thit Poke	Kyaik Hto	no	1	1,600
11	5	Crabs	Bamboo	Thit Poke / Poe loung	Thit Poke/ Poe Loung	bundle	5	1,000
12	5	Crabs	Bait	Thit Poke	Thit Poke	viss	80	200
13	6	Crabs	Boots	Thit Poke	Don't know	no	8	900
14	6	Crabs	Bamboo	Thit Poke	Don't know	no	120	50
15	6	Crabs	Bait	Thit Poke	Thit Poke	viss	80	200
16	8	Crabs	Bamboo	Poe Loung	Don't know	no	2	500
17	8	Crabs	Bait	in village	Kant Balar Tapin	viss	25	200
18	8	Crabs	Fishing net	Poe Loung	Don't know	lan	5	1,600
19	10	Paddy	Seed	In The Village	In The Village	Busket	2	1,000
20	10	Paddy	Forest knife	Poe Loung	Yangon	No	1	1,200
21	10	Paddy	Hoe	Poe Loung	Yangon	No	1	800
22	11	Paddy	Hiring Cattle	-	-	-	0	0
23	11	Crabs	Bamboo	in Village/Polaung	Taung Paw	no	150	35
24	11	Crabs	Bait	In Vaillage	In Village	viss	12	350
25	11	Crabs	Jungle boots	Thit Poke	Yangon	no	3	900
26	12	Crabs	Bamboo	Thit Poke	Taung Paw	no	50	150
27	12	Crabs	Bait	In village	in village	viss	40	350
28	12	Crabs	Boots	Thit Poke	Yangon	no	1	800
29	13	Crabs	Bait	In The Village	In The Village	Viss	20	250
30	13	Crabs	Boots	Thit Poke	Yangon	No	2	270
31	14	Crabs	Bamboo	Thit Poke	Taung Paw	no	50	35
32	14	Crabs	Boots	Thit Poke	Yangon	no	2	1,000
33	15	Crabs	Bamboo	Thit Poke	Thit Poke	No	75	50
34	15	Crabs	Bait	In Villages	Thit Poke	Viss	120	450
35	15	Crabs	Boots	Thit Poke	Yangon	No	8	1,000
36	16	Crabs	Bamboo	Poe Loung	Poe Loung	No	75	50
37	16	Crabs	Boots	Thit Poke	Yangon	No	8	1,000
38	16	Crabs	Bait	In Village	In Village	Viss	20	350
39	17	Crabs	Bamboo	Poe Loung	Taung Paw	no	180	40
40	17	Crabs	Bait	Thit Poke	Thit Poke	viss	20	450
41	17	Crabs	Jungle boots	Thit Poke	Yangon	no	2	850
42	19	Crabs	Bamboo	Poe Loung	Taung Paw	no	60	40
43	19	Crabs	Bait	Thit Poke	Thit Poke	viss	25	12,500
44	19	Crabs	Boots	Thit Poke	Yangon	no	3	3,000
45	22	Crabs	Bamboo	Chan Thar Kone	Chan Thar Kone	No	80	50
46	22	Crabs	Boat	In Village	In Village	No	1	15,000
47	22	Crabs	Boots	Thit Poke	Yangon	No	8	1,000
48	22	Crabs	Bait	In Village	In Village	Viss	70	300
49	23	Paddy	Hoe	Thit Poke	Thit Poke	No	1	1,200
50	23	Crabs	Bamboo	Poe Loung	Poe Loung	No	60	150
51	23	Crabs	Boots	Thit Poke	Yangon	No	8	1,000
52	23	Paddy	Forest knife	Thit Poke	Yangon	No	1	800
53	23	Paddy	Seedling Sticks	Poe Loung	Poe Loung	No	1	100
54	23	Crabs	Bait	In Village	In Village	Viss	80	300
55	24	Crabs	Bamboo	Thit Poke	Taung Paw	no	35	100
56	24	Crabs	Bait	Thit Poke	Thit Poke	viss	15	350
57	24	Crabs	Boots	Thit Poke	Don't know	no	2	1,000
58	25	Crabs	Bamboo	Thit Poke	Taung Paw	no	40	80
59	25	Crabs	Bait	In village	in village	viss	15	400
60	25	Crabs	Boots	Thit Poke	Yangon	no	2	850
61	27	Crabs	Bamboo	Thit Poke	Don't know	no	100	50
62	27	Crabs	Bait	Thit Poke	Don't know	viss	100	300
63	27	Crabs	Boots	Thit Poke	Don't know	no	5	900
64	28	Prawn	Crude oil dregs	Thit Poke	Yangon	viss	12	500
65	28	Prawn	Iron	Thit Poke	Yangon	Thar	20	70
66	28	Prawn	Resin of timber trees	Thit Poke	Yangon	pack	6	2,000
67	29	Crabs	Bamboo	Poe Loung	Don't know	no	125	50
68	29	Crabs	Rope	Poe Loung	Don't know	reel	3	200
69	29	Crabs	Bait	in village	Don't know	viss	50	200
70	31	Crabs	Bamboo	Thit Poke	Thit Poke	No	20	250
71	31	Crabs	Boots	Thit Poke	Yangon	No	2	800
72	31	Crabs	Bait	In Villages	Thit Poke	Viss	40	250
73	33	Crabs	Bamboo	Thit Poke	Taung Paw	no	120	30
74	33	Crabs	Boots	Thit Poke	Yangon	no	2	1,500
75	34	Crabs	Bamboo	in village	in village	no	20	80
76	34	Crabs	Bait	in village	in village	viss	10	350
77	34	Crabs	Boots	Thit Poke	Yangon	no	1	1,000
78	39	Crabs	Bamboo	In Village	In Village	No	34	50
79	39	Crabs	Boots	Thit Poke	Yangon	No	3	1,300
80	39	Crabs	Bait	In Villages	In Villages	Viss	120	350
81	40	Crabs	Bamboo	Thit Poke	Thit Poke	No	50	50
82	40	Crabs	Boots	Thit Poke	Yangon	No	3	800
83	40	Crabs	Bait	In Villages	In Villages	Viss	70	300
84	41	Paddy	Hoe	Thit Poke	Yangon	No	1	700

Table 5.2-12 Household Production (Input)

No.	HH No.	Production name	Input item	Place of purchase	Place of origin	Unit	No of purchase	Unit price
85	41	Paddy	Seed	Thit Poke	Yangon	No	2	1,600
86	42	Crabs	Bamboo	in village	in village	no	100	100
87	42	Crabs	Bait	in village	in village	viss	120	200
88	45	Crabs	Fishing net	Thit Poke	Don't know	no	1	4,000
89	45	Crabs	Bamboo	Chan Thar Kone	Chan Thar Kone	no	5	150
90	46	Crabs	Bait	in village	in village	viss	20	200
91	47	Crabs	Bamboo	Thit Poke	Don't know	no	25	60
92	47	Crabs	Fishing net	Chan Thar Kone	Don't know	no	2	1,000
93	48	Crabs	Bait	in village	chan thar kone	viss	200	200
94	50	Crabs	Bamboo	Chan Thar Kone	Chan thar Kone	no	50	150
95	50	Crabs	Bait	in village	in village	viss	50	200
96	50	Crabs	Boots	Thit Poke	Don't know	no	3	1,000
97	51	Crabs	Bamboo	Thit Poke	Thit Poke	No	150	60
98	51	Crabs	Boots	Poe Loung	Yangon	No	6	1,100
99	51	Crabs	Bait	In Villages	In Villages	Viss	50	300
100	52	Crabs	Bamboo	Poe Loung	Taung Paw	no	160	45
101	52	Crabs	Bait	in village	in village	no	150	300
102	53	Crabs	Bamboo	Thit Poke	Don't know	no	240	50
103	53	Crabs	Bait	in village	in village	viss	340	200
104	53	Crabs	Boots	in village	in village	no	12	1,000
105	54	Crabs	Bamboo	Thit Poke	Thit Poke	no	200	50
106	54	Crabs	Bait	Thit Poke	Thit Poke	viss	240	200
107	54	Crabs	Boots	Thit Poke	Yangon	no	10	1,000
108	54	Crabs	Boat	Poe Loung	Poe Loung	no	1	15,000
109	55	Crabs	Bamboo	Chan Thar Kone	Char Thar Kone	no	120	150
110	55	Crabs	Bait	Thit Poke	Thit Poke	viss	240	300
111	55	Crabs	Boots	Thit Poke	Yangon	no	3	1,100
112	56	Paddy	Seed	In Villages	In Villages	Basket	48	800
113	56	Crabs	Bamboo	Poe Loung	Forest	No	120	50
114	56	Crabs	Boots	Thit Poke	Yangon	No	3	1,000
115	56	Crabs	Bait	Thit Poke	Thot Poke	Viss	96	400
116	58	Crabs	Bamboo	Chan Thar Kone	Chan Thar Kone	no	120	75
117	58	Crabs	Bait	in village	in village	viss	120	200
118	60	Crabs	Bamboo	Thit Poke / Chan thar Kone / Poe loung	Don't know	no	30	200
119	60	Crabs	Bait	in village	in village	viss	50	200
120	61	Crabs	Bamboo	Thit Poke	Forest	No	50	100
121	61	Crabs	Bait	Thit Poke	Thit Poke	Viss	25	500
122	61	Crabs	Boots	Thit Poke	Yangon	No	3	950
123	64	Crabs	Bamboo	Chan Thar Kone/Thit Poat	Don't know	no	60	200
124	64	Crabs	Bait	in village	in village	viss	100	200
125	65	Crabs	Bamboo	Thit Poke	Forest	No	60	80
126	65	Crabs	Bait	In villages	In Villages	Viss	18	500
127	65	Crabs	Boots	Thit Poke	Yangon	No	2	1,000
128	66	Crabs	Bamboo	Thit Poke	Don't know	no	100	40
129	66	Crabs	Bait	in village	in village	viss	180	300
130	67	Crabs	Bamboo	Chan Thar Kone	Chan Thar Kone	no	240	150
131	67	Crabs	Bait	Thit Poke	Thit Poke	viss	120	400
132	67	Crabs	Boots	Thit Poke	Yangon	no	4	1,000
133	68	Crabs	Boat	in village	in village	no	1	11,000
134	68	Crabs	Bamboo	Poe Loung	Poe Loung	no	100	40
135	68	Crabs	Bamboo	Poe Loung	Poe Loung	no	30	180
136	68	Crabs	Bait	in village	in village	viss	120	250
137	68	Crabs	Boots	Thit Poke	Yangon	no	2	750
138	68	Crabs	Boots	Thit Poke	Yangon	no	2	1,500
139	69	Crabs	Bamboo	Thit Poke	Forest	No	30	75
140	69	Crabs	Bait	Thit Poke	Thit Poke	Viss	10	500
141	69	Crabs	Jungle boots	Thit Poke	Yangon	No	2	1,000
142	70	Crabs	Bamboo	Thit Poke	Forest	No	9	40
143	70	Crabs	Bait	Thit Poke	Thit Poke	No	16	300
144	70	Crabs	Boots	Thit Poke	No	No	1	1,100
145	72	Crabs	Bamboo	Thit Poke	Thit Poke	no	240	50
146	72	Crabs	Bait	in village	in village	viss	300	200
147	73	Crabs	Jungle boots	Thit Poke	Yangon	no	3	1,000
148	73	Crabs	Bamboo	Thit Poke	Thit Poke	no	50	50
149	73	Crabs	Bait	in village	in village	viss	50	300
150	74	Prawn	Bamboo	Thit Poke	Thit Poke	No	200	50
151	74	Prawn	Bait	In Village	In Village	Viss	200	300
152	74	Prawn	Boots	Thit Poke	Yangon	No	900	4,500
153	76	Crabs	Bamboo	Thit Poke	Don't know	no	10	45
154	77	Crabs	Bamboo	Chan Thar Kone	Chan Thar Kone	no	30	250
155	77	Crabs	Bait	in village	in village	viss	50	300
156	77	Crabs	Boots	Thit Poke	Don't know	no	4	800
157	78	Crabs	Bamboo	Thit Poke / Polaung	Don't know	no	100	50
158	78	Crabs	Bait	in village	Don't know	viss	260	300
159	79	Crabs	Traps	Thit Poke	Thit Poke	No	20	150
160	79	Crabs	Bait	Thit Poke	Thit Poke	Viss	1	140
Nyaung Ta Pin								
161	1	Crabs	Trap	in village	in village	no	10	80
162	1	Crabs	Bait	Thit Poke	Thit Poke	viss	40	500
163	3	Crabs	Bait	Thit Poke / Aung Hlaing	Thit Poke / Aung Hlaing	viss	144	500
164	3	Crabs	Bamboo	Thit Poke	Thit Poke	no	6	35
165	3	Crabs	Plastic rope	Thit Poke	Laputta	roll	5	120
166	5	Crabs	Trap	in village	in village	no	300	150
167	5	Crabs	Bait	in village	in village	viss	200	250

Table 5.2-12 Household Production (Input)

No.	HH No.	Production name	Input item	Place of purchase	Place of origin	Unit	No of purchase	Unit price
168	7	Crabs	Trap	in village/ I Ma	In village/ I Ma	no	100	150
169	7	Crabs	Bait	in village	in village/ Thit Poke	viss	70	250
170	9	Crabs	Trap	in village	in village/ I Ma	no	300	150
171	9	Crabs	Bait	in village	in village/ Thit Poke	viss	200	250
172	13	Crabs	Trap	in village	in village	no	50	150
173	13	Crabs	Bait	in village	in village	viss	60	250
174	15	Prawn	Fishing Net	Ayar Tauw	Korea	lan	24	800
175	17	Crabs	Trap	in village	in village	no	150	150
176	17	Crabs	Bait	in village/ Thit Poat	thit Poat	viss	500	200
177	21	Nipa thatch	Bamboo	Poe Loung	Taung Paw	bundle	60	140
178	21	Crabs	Trap	in village	in village	no	90	120
179	21	Crabs	Bait	in village	in village	viss	50	600
180	23	Crabs	Trap	in village	in village	no	90	120
181	23	Crabs	Bait	in village/ thit poat	Thit Poke	viss	100	500
182	25	Prawn	Fishing net (pyke sein)	Laputta	Thailand	pack	20	5,000
183	25	Prawn	Fishing net (palar tu)	Laputta	Thailand	viss	10	1,800
184	25	Prawn	Kaung Rope	Laputta	Myanmar	viss	3	1,200
185	27	Crabs	Trap	in village	in village	no	500	120
186	27	Crabs	Bait	in village	in village	viss	250	300
187	29	Nipa thatch	Nipa stick	Poe Loung	Taung Yoe	bundle	3,000	200
188	29	Crabs	Trap	Poe Loung	Taung Yoe	no	300	150
189	29	Crabs	Bait	from sea	from sea	viss	500	250
190	33	Crabs	Trap	Poe Loung	Taung Paw	no	150	150
191	33	Crabs	Bait	in village	in village	viss	300	250
192	35	Crabs	Trap	in village	in village	no	300	150
193	35	Crabs	Bait	in village	in village	no	100	50
194	37	Crabs	Trap	in village	in village	no	100	150
195	37	Crabs	Bait	in village	in village	viss	200	250
196	41	Crabs	Bait	in village/ Thit Poat	Thit Poke	viss	24	600
197	41	Crabs	Bamboo (Big)	in village	Thit Poat	no	20	500
198	41	Crabs	Plastic rope	Thit Poke	Laputta	roll	20	200
199	41	Crabs	Boat	Thit Poke	Warkhama	no	1	15,000
200	43	Crabs	Trap	in village	in village	no	150	150
201	43	Crabs	Bait	in village/ Thit Poat	Thit Poat	viss	10	400
202	47	Prawn	Labour charges	-	-	no	4	
203	47	Prawn	Shaw	-	-	no	5	
204	51	Pancake (made of rice)	Seed	in village	Thit poat	basket	30	7,000
205	51	Pancake (made of rice)	Oil	in village	Thit Poat	viss	90	2,200
206	51	Pancake (made of rice)	Brown Sugar	in village	Thit Poat	viss	300	500
207	51	Pancake (made of rice)	Sticky rice	in village	Thit Poat	pyi	50	350
208	53	Prawn	Fishing net	Thit Poke	Don't know	no	1	
209	55	Nipa thatch	Nipa	Thit Poke	Thit Poke	Lansom	2	4,000
210	55	Nipa thatch	Bamboo	Poe Loung	Poe Loung	bundle	80	120
211	55	Nipa thatch	Labours	in village	in village	bundle	80	150
212	57	Crabs	Bamboo	Poe loung / Thit Poke	Poe loung / Thit Poke	no	900	45
213	57	Crabs	Knife	Thit Poke	Thit Poke	no	1	800
214	61	Crabs	Trap	in village	in village	no	30	150
215	61	Crabs	Bait	in village	in village	viss	72	250
216	63	Crabs	Trap	in village	in village	no	70	150
217	63	Crabs	Net	in village	Thit Poke	no	5	350
218	63	Crabs	Boat	Thit Poke	Poe Loung	no	2	20,000
219	63	Crabs	Bait	in village	in village	viss	180	250
220	65	Crabs	Bamboo	Poe loung / Thit Poke	Myaung Mya	no	300	60
221	65	Crabs	Plastic rope	Thit Poke	Laputta	roll	15	300
222	65	Crabs	Bait	in village	in village	viss	240	250
223	65	Crabs	Boat	Kyone Magnay	Kyone Ma Ngay	no	1	25,000
224	67	Crabs	Bamboo	Poe loung / Thit Poke	Myaung Mya	no	300	60
225	67	Crabs	Plastic rope	Thit Poke	Laputta	roll	15	300
226	67	Crabs	Bait	in village	in village	viss	60	250
227	67	Crabs	Boat	Kyone Ma Ngay	Kyone Ma Ngay	no	1	25,000
228	69	Prawn	Net (plastic)	in village	Be Tut	15 lan	1	15,000
229	69	Crabs	Boat	Hlaw Ni / Polaung	Kyone Ma Ngay	no	1	23,000
230	69	Crabs	Trap	in village	in village	no	180	120
231	69	Prawn	Disel	in village	Thit Poke	bottle	96	320
232	69	Crabs	Bait	in village	Thit Poke	viss	300	250
233	73	Crabs	Trap	in village	in village	no	350	150
234	73	Crabs	Bait	in village	in village	viss	50	400
235	79	Crabs	Boat	Thar Khayan	Laputta	no	1	15,000
236	79	Crabs	Trap	in village	in village	no	80	120
237	79	Crabs	Bait	in village	Thit Poat	viss	180	500
238	81	Crabs	Bamboo	Thit Poke	Thit Poat	no	60	60
239	81	Crabs	Bait	Thit Poke	Thit Poke	viss	100	300
240	81	Crabs	Bait	Khine Thaug	Khine Thaug	viss	60	450
241	83	Crabs	Trap	Shaw Ni	Shaw Ni	no	120	130
242	83	Crabs	Bait	Poe Loung	Poe Loung	viss	200	300
243	85	Crabs	Trap	in village	in village	no	35	150
244	87	Crabs	Trap	in village	Pain Ne Kone	no	200	150
245	87	Crabs	Bait	in village	Khine Thaug	viss	240	500
246	89	Crabs	Trap	Poe Loung	Poe Loung	no	100	120
247	89	Crabs	Bait	in village	in village	viss	150	250
248	91	Crabs	Trap	in village	in village	no	120	150
249	91	Crabs	Bait	in village	in village	viss	150	250
250	93	Crabs	Trap	in village	in village	no	35	150
251	93	Crabs	Bait	in village	Thit Poke	viss	20	400
252	93	Crabs	Boat	-	-	no	1	10,000

Table 5.2-12 Household Production (Input)

No.	HH No.	Production name	Input item	Place of purchase	Place of origin	Unit	No of purchase	Unit price
253	95	Crabs	Trap	in village	in village	no	30	150
254	95	Crabs	Bait	in village	in village	viss	20	400
255	97	Crabs	Trap	in village	in village	no	120	150
256	97	Crabs	Bait	in village	in village	viss	280	250
257	99	Prawn	breeding prawn	-	-	no		1
258	99	Paddy	Seed	-	-	viss	30	1,600
259	99	Chicken / Duck / Pig	Goat	-	-	no	2	8,000
260	99	Paddy	Hiring Cattle	-	-	no	2	7,200
261	99	Chicken / Duck / Pig	Pig	-	-	no	2	7,000
262	99	Paddy	Labour Charges	-	-	no	9	500
263	99	Chicken / Duck / Pig	Water	in village	Chan Thar Kone	barrel	48	400
264	101	Crabs	Trap	Thit Poke	Taung Paw	no	300	120
265	101	Crabs	Bait	Thit Poke	Thit Poke	viss	120	700
266	103	Prawn	Fishing Net	Kan Chaung	Don't know	no	1	4,580
267	103	Crabs	Trap	in village	in village	no	30	150
268	103	Prawn	Boat	Thit Poke	Thit Poke	no	1	20,000
269	103	Crabs	Bait	in village	in village	viss	20	300
270	105	Crabs	Bamboo	Thit Poke	Thit Poke	No	240	30
271	105	Crabs	Plastic rope	Thit Poke	Yangon	Roll	20	250
272	105	Crabs	Bait	In village	Thit Poke	Viss	60	400

Table 5.2-13 Household Production (Output)

No.	HH No.	Production name	Detail	Place of sale	Final destination	Unit	No of product	Unit price
Thar Yar Kone								
1	2	Paddy	Paddy	in village	in village	no	2,000	70
2	2	Farm Products	Coconut	in village	Yangon	viss	60	3,500
3	2	Prawn	Prawn	Thit Poke	Yangon	no	2,000	50
4	2	Farm Products	Bamboo	in village	in village	viss	150	800
5	4	Crabs	Crab	in village	Yangon	viss	250	800
6	7	Crabs	Crab	in village	Yangon	viss	200	800
7	9	Crabs	Crab	in village	Yangon	viss	150	1,200
8	3	Crabs	Crab	Thit Poke	Boglay	lan	45	2,100
9	3	Fuel Wood	Wood	in village	dk	viss	160	1,000
10	5	Crabs	Crab	In village	Yangon	viss	90	800
11	6	Crabs	Crab	in village (U Nge Hla)	Thit Poke	viss	50	800
12	8	Crabs	Crab	in village (U Nge Hla)	Thit Poke	viss	60	2,000
13	11	Paddy	Paddy	in village	in village	viss	30	900
14	11	Crabs	Crab	In village	Poe Loung	viss	90	800
15	12	Crabs	Crab	in village	Yangon	Viss	25	800
16	13	Crabs	Crab	In Village	Musai	viss	20	500
17	14	Crabs	Crab	in village	Yangon	Viss	180	1,000
18	15	Crabs	Crab	Thit Poke	Musai	Viss	50	1,000
19	16	Crabs	Crab	In Village	Musai	viss	70	800
20	17	Crabs	Crab	in village	Yangon	basket	50	2,000
21	18	Paddy	Paddy	in village	in village	no	200	75
22	19	Farm Products	Coconut	in village	Yangon	viss	100	850
23	19	Crabs	Crab	Thit Poke	Yangon	No	1,200	70
24	22	Farm Products	Coconut	Chan Thar Kone	Yangon	Viss	75	800
25	22	Crabs	Crab	Thit Poke	Musai	Viss	70	700
26	23	Crabs	Crab	In Village	Musai	viss	60	900
27	24	Crabs	Crab	in village	Yangon	no	1,800	70
28	24	Farm Products	Coconut	Chan Thar Kone	Yangon	no	150	60
29	24	Farm Products	Lemon	Thit Poke	Thit Poke	0	0	1,000
30	24	Farm Products	Flower	in village	in village	viss	80	750
31	25	Crabs	Crab	in villge	Yangon	no	1,200	70
32	26	Farm Products	Coconut	in village	Yangon	viss	8	700
33	26	Crabs	Crab	in village	Yangon	viss	180	1,000
34	27	Crabs	Crab	in village	Yangon	viss	40	5,500
35	28	Prawn	Prawn	Chan Thar Kone	Yangon	viss	150	1,000
36	29	Crabs	Crab	in village	Yangon	Viss	50	700
37	31	Crabs	Crab	In Villages	Musai	viss	67	900
38	33	Crabs	Crab	in village	Thit Poke	no	600	70
39	34	Farm Products	Coconut	Chan Thar Kone	Yangon	viss	24	500
40	34	Crabs	Crab	in village	Yangon	No	300	50
41	35	Farm Products	Coconut	In the villages	Yangon	Viss	70	1,000
42	39	Crabs	Crab	In Village	Musai	Viss	72	700
43	40	Crabs	Crab	In Villages	Musai	No	90	50
44	41	Farm Products	Coconut	In villages	Yangon	viss	125	800
45	42	Crabs	Crab	in village	Yangon	viss	36	800
46	43	Crabs	Crab	in village	dk	viss	2	1,000
47	43	Paddy	Paddy	in village	dk	no	1,200	50
48	44	Farm Products	Coconut	in village	Yangon	viss	125	800
49	44	Crabs	Crab	in village	Yangon	viss	200	500
50	44	Prawn	Prawn	in village	Yangon	viss	30	5,000
51	44	Prawn	Tiger prawn	in village	Yangon	viss	3	700
52	45	Crabs	Crab	in village	Yangon	viss	2	300
53	45	Crabs	Fish	in village	in village	thar	40	100
54	45	Crabs	Prawn	Chan Thar Kone	dk	no	1,200	50
55	46	Farm Products	Coconut	in village	Yangon	viss	30	800
56	46	Crabs	Crab	in village	Yangon	100 bundle	50	1,000
57	47	Nipa thatch	Nipa Thatch	in village	dk	viss	80	1,000
58	47	Crabs	Crab	Chan Thar Kone	Yangon	no	4,800	50
59	48	Farm Products	Coconut	in village	Yangon	viss	150	800
60	48	Crabs	Crab	in village	Yangon	no	1,800	50
61	49	Farm Products	Coconut	in village	Yangon	no	2,000	2
62	49	Farm Products	Beetle nut	in village	Yangon	viss	30	1,000
63	50	Crabs	Crab	in village	Yangon	Viss	200	1,000
64	51	Crabs	Crab	Chan Thar Kone	Musai	viss	0	0
65	52	Crabs	Tiger prawn	Thit Poke	Yangon	no	10	500
66	52	Farm Products	Bamboo	in village	dk	no	25	200
67	52	Farm Products	Bamboo	in village	dk	viss	0	0
68	52	Crabs	Crab	in village	Yangon	no	900	50
69	53	Farm Products	Coconut	in village	Yangon	viss	140	800
70	53	Crabs	Crab	in village	Muasi	viss	110	1,000
71	53	Crabs	Crab	in village	Muasi	viss	144	800
72	54	Crabs	Crab	in village	Musai	no	600	60
73	54	Farm Products	Coconut	in village	Yangon	viss	450	1,000
74	55	Crabs	Crab	Thit Poke	Yangon	Viss	120	800
75	56	Crabs	Crab	In Village	Yabgon	Lan	40	2,100
76	56	Crabs	Fuel Wood	Kyun Kone	Kyun Kone	No	1	0
77	56	Crabs	Pigs	In Villages	In Villages	No	300	80
78	57	Farm Products	Coconut	In village	Chan Thar Kone	viss	125	800
79	58	Crabs	Crab	in village	Yangon	viss	150	800
80	60	Crabs	Crab	in village	Yangon	no	70	80
81	61	Farm Products	Coconut	In Villages	In Villages	Viss	120	1,000
82	61	Crabs	Crab	Thit Poke	Yangon	no	240	50
83	63	Farm Products	Coconut	in village	in village	viss	200	800
84	64	Crabs	Crab	in village	Yangon	Viss	90	800
85	65	Crabs	Crab	In Village	Yangon	viss	110	800
86	66	Crabs	Crab	in village (U lar Pwe)	Yangon	viss	4	1,750

Table 5.2-13 Household Production (Output)

No.	HH No.	Production name	Detail	Place of sale	Final destination	Unit	No of product	Unit price
87	67	Chicken / Duck / Pig	Chicken	in village	in village	no	1,080	70
88	67	Farm Products	Coconut	Chan Thar Kone	Yangon	viss	168	1,000
89	67	Crabs	Crab	Thit Poke	Yangon	no	6	1,000
90	67	Chicken / Duck / Pig	Duck	in village	in village	no	600	40
91	68	Farm Products	Coconut	in village	Yangon	viss	100	800
92	68	Crabs	Crab	in village	Musai	viss	70	1,000
93	68	Crabs	Crab	in village	Musai	Viss	30	900
94	69	Crabs	Crabs	In Village	Yangon	Viss	360	1,000
95	70	Crabs	Crab	In Villages	Yangon	viss	150	3,000
96	71	Prawn	Prawn	Thit Poke	Yangon	viss	200	800
97	72	Crabs	Crab	in village	Yangon	no	240	50
98	73	Farm Products	Coconut	in village	Yangon	viss	70	800
99	73	Crabs	Crab	in village	Musai	viss	20	7,500
100	73	Crabs	Prawn	Thit Poke	dk	Viss	190	1,000
101	74	Prawn	Crab	In Village	Musai	Viss	30	300
102	74	Prawn	Fish	In Village	In Village	Viss	15	2,000
103	74	Prawn	Prawn	In Village	Yangon	viss	16	800
104	76	Crabs	Crab	Thit Poke	Yangon	viss	180	800
105	77	Crabs	Crab	in village	Yangon	viss	200	800
106	78	Crabs	Crab	in village	Yangon	Viss	1	800
107	79	Crabs	Crab	In Villages	Yangon	Viss	12	5,000
108	79	Prawn	Prawn	In Villages	Yangon	viss	150	1,000
Nyaung Ta Pin								
109	1	Crabs	Crab	Ayar Taw	Musai	basket	18	0
110	1	Paddy	Paddy	Wae Daunt	dk	viss	150	1,000
111	3	Crabs	Crab	in village	Musai	no	450	75
112	3	Farm Products	Coconut	Thit Poke	Yangon	viss	550	800
113	5	Crabs	Crab	in village	Musai	viss	200	800
114	7	Crabs	Crab	in village	Musai	viss	600	800
115	9	Crabs	Crab	in village	Musai	no	1,500	78
116	13	Farm Products	Coconut	Thit Poke	Yangon	viss	70	800
117	13	Crabs	Crab	Thit Poke	Musai	viss	50	300
118	15	Prawn	Fish	in village	Yangon	viss	150	800
119	15	Prawn	Prawn	in village	Yangon	viss	700	800
120	17	Crabs	Crab	in village	Musai	no	3,000	70
121	21	Farm Products	Coconut	Thit Poke	Yangon	viss	300	700
122	21	Crabs	Crab	Thit Poke	Musai	no	6,000	10
123	21	Nipa thatch	Nipa tatch	Thit Poke	Thit Poke	no	1,000	7
124	21	Farm Products	Mango	in village	in village	no	3,000	3
125	21	Farm Products	Beetle nut	in village	in village	viss	300	700
126	23	Crabs	Crab	Thit Poke	Musai	no	1,500	70
127	25	Farm Products	Coconut	Thit Poke	Yangon	viss	0	0
128	25	Prawn	Fish	Thit Poke	Yangon	viss	15	8,000
129	25	Prawn	Prawn	Thit Poke	Yangon	viss	250	700
130	27	Crabs	Crab	in village	Musai	viss	300	700
131	29	Crabs	Crab	Mwe Sein Chaung	Musai	viss	30	8,000
132	29	Prawn	Prawn	Thit Poke	Yangon	no	3,000	75
133	29	Farm Products	Coconut	Thit Poke	Yangon	no	30,000	10
134	29	Nipa thatch	Nipa tatch	the sea	the sea	no	3,000	70
135	31	Farm Products	Coconut	Thit Poke	Yangon	no	20,000	70
136	33	Farm Products	Coconut	Chan Thar Kone	Yangon	viss	300	800
137	33	Crabs	Crab	in village	Musai	viss	300	800
138	35	Crabs	Crab	in village	Musai	no	200	800
139	37	Crabs	Crab	in village	Musai	viss	252	1,000
140	41	Crabs	Crab	in village	Musai	no	30,000	77
141	41	Farm Products	Coconut	in village	Yangon	viss	30	900
142	43	Crabs	Crab	in village	Musai	viss	100	12,000
143	47	Prawn	Prawn	Thit Poke	Laputta	viss	100	1,000
144	47	Prawn	Fish	Thit Poke	Laputta	no	240	350
145	51	Pancake (made of rice)	Pan cake	in village	in village	viss	6	10,000
146	53	Prawn	Prawn (Big)	in village	Yangon	viss	120	1,200
147	53	Prawn	Prawn (Red tail)	in village	Yangon	Tatch	0	10
148	55	Nipa thatch	Nipa thatch	in village	Thit Poke	no	0	120
149	57	Crabs	Trap	in village	in village	viss	360	1,000
150	61	Crabs	Crab	in village	Yangon	viss	180	1,000
151	63	Crabs	Crab	in village	Yangon	viss	225	900
152	65	Crabs	Crab	in village	Musai	viss	240	900
153	67	Crabs	Crab	in village	Musai	viss	144	250
154	69	Prawn	Fish	in village	Thit Poke	viss	240	900
155	69	Crabs	Crab	in village	Yangon	no	1,800	77
156	71	Farm Products	Coconut	in village	Yangon	thatch	9,000	10
157	71	Farm Products	Nipa	in village	Yangon	viss	180	1,000
158	73	Crabs	Crab	in village	Laputta	0	0	0
159	75	Vegetables	vegetable	in village	in village	viss	25	10,000
160	75	Chicken / Duck / Pig	Prawn	Thit Poke	Yangon	no	1,800	77
161	75	Farm Products	Coconut	in village	Yangon	no	3,000	70
162	77	Farm Products	Coconut	Aung Hlaing Kone	Yangon	viss	30	1,000
163	77	Prawn	Prawn	Shaw Ni	Yangon	viss	300	1,000
164	79	Crabs	Crab	in village	Yangon	viss	120	1,000
165	81	Crabs	Crab	in village	Musai	viss	110	700
166	83	Crabs	Crab	Mwe Sein	Musai	viss	90	1,000
167	85	Crabs	Crab	in village	Yangon	viss	250	900
168	87	Crabs	Crab	in village	Yangon	viss	200	800
169	89	Crabs	crab	in village	Musai	viss	200	1,000
170	91	Crabs	Crab	in village	Musai	viss	150	1,000
171	93	Crabs	Crab	in village	Yangon	viss	20	950
172	95	Crabs	Crab	in village	Yangon	viss	288	800

Table 5.2-13 Household Production (Output)

No.	HH No.	Production name	Detail	Place of sale	Final destination	Unit	No of product	Unit price
173	97	Crabs	crab	in village	Musai	viss	20	0
174	99	Paddy	Paddy	Home use	Home use	no	20	0
175	99	Chicken / Duck / Pig	Goat	Home use	Home use	viss	10	8,000
176	99	Prawn	Prawn	Home use	Home use	no	5	30,000
177	99	Chicken / Duck / Pig	Pig	Home use	Home use	viss	600	800
178	101	Crabs	Crab	Thit Poke	Musai	viss	250	800
179	103	Crabs	Crab	in village	in village	viss	50	300
180	103	Prawn	Fish	in village	in village	viss	6	1,000
181	103	Prawn	Prawn	in village	in village	Viss	240	1,000
182	105	Crabs	Crab	In village	Thit Poke			

Data book 6

Socioeconomic Condition Survey 2 of the Pilot Project Target Villages

Socio-Economic Condition Survey II

The Social and Economic Condition Survey II was conducted by surveyors hired by JICA Study Team in October 2004 including detailed socio-economic information of 2 target villages of the pilot project. As the data collection methodology three components were adopted: community appraisal, community stratification, and household interview to collect data in both two selected villages.

Key informants, knowledgeable local residents who knew social, economic, cultural agro-ecological and other conditions of the community were selected and interviewed.

For some kind of data items, schoolteachers and other reliable personnel are considered as Key Informants. Through consultation with the village leaders, the team selected key informant villagers who comprised farmers, marginal farmers, landless, women, youth, middle age and elders, teachers and religious groups.

Frequent population movement is important social phenomenon in the study area and village instability was found one of the important social conditions. Based on this situation, it was thought necessary to understand the socio-economic condition of the villages where people left for the reserved forests. Thus, as part of the Socio-economic condition survey II, native villages where villagers of two villages, especially Nyaung Ta Pin, migrated from were visited to interview. This survey aimed at grasping socio-economic condition of the native villages and relative households of migrant people.

Table 6.1 Population, Ethnicity, Religion, Native or Immigrated

No.	Ethnicity	Religion	Family members			Native	Native Village		Years of residence
			Total	Male	Female		Township	Village Tract	
Thar Yar Kone									
1	Kayin	Christian	4	2	2	Native			0
2	Kayin	Christian	6	3	3	Native			0
3	Kayin	Christian	5	3	2	Immigrant	Laputta	Ye Dwin Seik	10
4	Kayin	Christian	8	4	4	Native			
5	Kayin	Christian	6	2	4	Native			
6	Kayin	Christian	4	1	3	Native			
7	Kayin	Christian	4	2	2	Native			
8	Kayin	Christian	5	1	4	Native			
9	Kayin	Christian	3	2	1	Native			
10	Myanmar	Buddhist	4	3	1	Immigrant	Bogalay	Downtown	10
11	Kayin	Christian	5	3	2	Native			
12	Kayin	Christian	3	2	1	Native			
13	Kayin	Christian	1	0	1	Native			
14	Kayin	Christian	9	5	4	Native			
15	Kayin	Christian	2	1	1	Native			
16	Kayin	Christian	4	2	2	Native			
17	Kayin	Christian	6	5	1	Native			
18	Myanmar	Buddhist	7	6	1	Immigrant	Bogalay	Downtown	31
19	Kayin	Christian	6	3	3	Native			
20	Kayin	Christian	2	1	1	Native			
21	Kayin	Christian	7	3	4	Immigrant	Laputta	Sar Chet	15
22	Kayin	Christian	5	2	3	Immigrant	Pathein	Kya Kone	23
23	Kayin	Christian	7	1	6	Native			
24	Kayin	Christian	8	4	4	Immigrant	Laputta	Myit Pauk	8
25	Myanmar	Buddhist	5	3	2	Immigrant	YKI	Downtown	18
26	Myanmar	Buddhist	7	2	5	Immigrant	Pakokku	Myit Che	1
27	Kayin	Christian	2	0	2	Immigrant	Bogalay	Ahmar	6
28	Kayin	Christian	5	2	3	Native			
29	Kayin	Christian	3	2	1	Immigrant	Laputta	Sar Chet	32
30	Kayin	Christian	4	2	2	Immigrant	Laputta	Aung Lan Kone	7
31	Kayin	Christian	9	5	4	Native			
32	Kayin	Christian	5	3	2	Immigrant	Laputta	Pyin-a-lan	1
33	Kayin	Christian	10	7	3	Native			
34	Kayin	Christian	5	3	2	Immigrant	Laputta	Kyi Chaung	10
35	Kayin	Christian	2	1	1	Immigrant	Laputta	Hlwa Zar	17
36	Kayin	Christian	4	3	1	Native			
37	Kayin	Christian	2	1	1	Immigrant	Laputta	Hlwa Zar	11
38	Kayin	Christian	6	3	3	Immigrant	Laputta	Myit Pauk	15
39	Kayin	Christian	9	5	4	Immigrant	Laputta	Ye Dwin Seik	20
40	Kayin	Christian	3	2	1	Native			
41	Kayin	Christian	10	7	3	Immigrant	Laputta	Maung Nge	2
42	Kayin	Christian	7	3	4	Native			
43	Kayin	Christian	6	2	4	Native			
44	Kayin	Christian	2	1	1	Native			
45	Kayin	Christian	2	1	1	Native			
46	Kayin	Christian	3	2	1	Native			
47	Kayin	Christian	3	1	2	Native			
48	Kayin	Christian	4	1	3	Native			
49	Kayin	Christian	2	1	1	Native			
50	Kayin	Christian	6	3	3	Native			
51	Kayin	Christian	2	1	1	Native			
52	Kayin	Christian	6	3	3	Native			
53	Kayin	Christian	2	1	1	Native			
54	Kayin	Christian	6	4	2	Native			
55	Kayin	Christian	5	2	3	Immigrant	Laputta	Ima	10
56	Kayin	Christian	2	1	1	Immigrant	Laputta	De Ni Seik	1
57	Kayin	Christian	7	3	4	Immigrant	Laputta	Downtown	10
58	Kayin	Christian	6	4	2	Immigrant	Laputta	Sar Chet	40
59	Kayin	Christian	5	4	1	Native			
60	Kayin	Christian	4	2	2	Native			
61	Kayin	Christian	5	3	2	Native			
62	Kayin	Christian	3	2	1	Native			
63	Kayin	Christian	4	3	1	Native			
64	Kayin	Christian	3	1	2	Native			
65	Myanmar	Buddhist	4	4	0	Immigrant	MMN	Pha Yar Gyi	2
66	Kayin	Christian	2	1	1	Immigrant	Laputta	Sar Chet	30
67	Kayin	Christian	5	2	3	Native			
68	Kayin	Christian	3	1	2	Native			
69	Kayin	Christian	6	3	3	Native			
70	Kayin	Christian	5	2	3	Native			
71	Kayin	Christian	5	4	1	Native			
72	Kayin	Christian	5	3	2	Immigrant	Laputta	Myit Pauk	7
73	Kayin	Christian	3	2	1	Native			

Table 6.1 Population, Ethnicity, Religion, Native or Immigrated

No.	Ethnicity	Religion	Family members			Native	Native Village		Years of residence
			Total	Male	Female		Township	Village Tract	
74	Kayin	Christian	9	7	2	Immigrant	Laputta	Myit Pauk	3
75	Kayin	Christian	6	3	3	Immigrant	Bogalay	Set San	3
76	Kayin	Christian	5	3	2	Immigrant	Laputta	Sar Chet	1
77	Kayin	Christian	7	4	3	Native			
78	Kayin	Christian	2	1	1	Immigrant	Laputta	Myit Pauk	5
79	Myanmar	Buddhist	3	2	1	Immigrant	Laputta	Pyin-a-lan	1
80	Kayin	Christian	7	3	4	Immigrant	Laputta	Da Ni Seik	34
81	Kayin	Christian	2	1	1	Native			
82	Kayin	Christian	4	1	3	Native			
Nyaung Ta Pin									
1	Myanmar	Christian	8	2	6	Native			0
2	Myanmar	Christian	6	4	2	Native			0
3	Myanmar	Christian	4	2	2	Immigrant	Laputta	Chaung	2
4	Myanmar	Christian	3	2	1	Immigrant	Laputta	Ye Dwin Seik	1
5	Myanmar	Christian	10	6	4	Immigrant	Laputta	Chaung	2
6	Myanmar	Christian	5	2	3	Immigrant	Laputta		2
7	Myanmar	Christian	3	1	2	Immigrant	Laputta	Pyin-a-lan	0
8	Myanmar	Christian	7	4	3	Immigrant	Laputta	Laputta	0
9	Myanmar	Christian	8	5	3	Immigrant	Laputta	Bo Kone	3
10	Myanmar	Christian	4	3	1	Immigrant	Laputta	Hwla Zar	4
11	Myanmar	Christian	2	1	1	Immigrant	Laputta	Chaung	3
12	Myanmar	Christian	2	0	2	Immigrant	Laputta	Thin Gan Gyi	3
13	Myanmar	Christian	2	0	2	Immigrant	Laputta	Chaung	2
14	Myanmar	Christian	9	3	6	Immigrant	Laputta	Hwla Zar	9
15	Myanmar	Christian	5	3	2	Immigrant	Laputta	Chaung	6
16	Kayin	Christian	5	3	2	Immigrant	Laputta	Ye Twin Zake	1
17	Myanmar	Buddhist	5	3	2	Immigrant	Laputta	Shaw Chaung	4
18	Myanmar	Buddhist	3	1	2	Immigrant	Laputta	Be Tut	9
19	Myanmar	Buddhist	2	0	2	Native			0
20	Myanmar	Buddhist	5	2	3	Immigrant	Laputta	Shaut Chaung	11
21	Myanmar	Buddhist	2	1	1	Immigrant	Laputta	Sar Chet	0
22	Kayin	Christian	4	3	1	Native			0
23	Kayin	Christian	1	0	1	Native			0
24	Myanmar	Buddhist	3	1	2	Immigrant	MYM	Lu Taw Gyi	2
25	Kayin	Christian	4	1	3	Native			0
26	Myanmar	Buddhist	3	2	1	Immigrant	Ngaputaw	Ma Gyi Pin	1
27	Myanmar	Buddhist	5	3	2	Immigrant	MYM	Lu Taw Gyi	2
28	Kayin	Christian	6	0	6	Native			0
29	Rakhine	Buddhist	2	1	1	Native			0
30	Myanmar	Buddhist	9	5	4	Native			0
31	Myanmar	Buddhist	4	3	1	Immigrant	Laputta	Sar Chet	1
32	Myanmar	Buddhist	10	3	7	Immigrant	Laputta	Sar Chet	0
33	Myanmar	Buddhist	3	2	1	Immigrant	Laputta	Be Tut	1
34	Myanmar	Buddhist	4	2	2	Native			0
35	Myanmar	Buddhist	4	2	2	Native			0
36	Myanmar	Christian	6	2	4	Immigrant	Laputta	Pyin-a-lan	10
37	Myanmar	Buddhist	5	3	2	Immigrant	Myaung Mya	Yan Ma Naing	3
38	Kayin	Christian	3	2	1	Native			0
39	Kayin	Christian	5	3	2	Immigrant	Laputta	Myit Pauk	40
40	Kayin	Christian	1	0	1	Native			0
41	Kayin	Christian	9	6	3	Native			0
42	Kayin	Christian	5	3	2	Native			0
43	Myanmar	Buddhist	7	2	5	Native			0
44	Myanmar	Buddhist	7	1	6	Native			0
45	Kayin	Christian	4	1	3	Immigrant	Laputta	Da Ni Seik	37
46	Kayin	Christian	2	1	1	Immigrant	MMN	Thee Seik	9
47	Kayin	Christian	6	4	2	Native			0
48	Kayin	Christian	7	3	4	Native			0
49	Kayin	Christian	6	2	4	Native			0
50	Kayin	Christian	2	1	1	Native			0
51	Kayin	Christian	5	4	1	Immigrant	Laputta	Da Ni Seik	13
52	Kayin	Christian	1	1	0	Immigrant	Laputta	Da Ni Seik	26
53	Kayin	Christian	4	2	2	Native			0
54	Kayin	Christian	4	2	2	Native			0
55	Kayin	Christian	2	1	1	Native			0
56	Myanmar	Buddhist	3	2	1	Immigrant	Wakema	Downtown	6
57	Kayin	Christian	5	2	3	Native			0
58	Kayin	Buddhist	7	4	3	Immigrant	Wakema	Danone Chaung	21
59	Kayin	Christian	6	2	4	Immigrant	Laputta	Da Ni Seik	40
60	Kayin	Christian	4	1	3	Native			0
61	Myanmar	Buddhist	3	1	2	Native			0
62	Myanmar	Buddhist	6	3	3	Immigrant	Wakema	Myothit	35
63	Kayin	Christian	5	3	2	Native			0
64	Myanmar	Christian	4	2	2	Native			0

Table 6.1 Population, Ethnicity, Religion, Native or Immigrated

No.	Ethnicity	Religion	Family members			Native Village			Years of residence
			Total	Male	Female	Native	Township	Village Tract	
65	Myanmar	Buddhist	3	1	2	Native			0
66	Kayin	Christian	5	4	1	Native			0
67	Myanmar	Buddhist	2	1	1	Immigrant	Myaung Mya	Tu Myaung	5
68	Myanmar	Buddhist	4	3	1	Immigrant	Laputta		40
69	Kayin	Christian	4	2	2	Native			0
70	Myanmar	Buddhist	7	2	5	Immigrant	Laputta	Downtown	30
71	Myanmar	Buddhist	5	2	3	Native			0
72	Kayin	Christian	6	3	3	Immigrant	Laputta	Da Ni Seik	20
73	Myanmar	Buddhist	7	5	2	Immigrant	Laputta	Ward (3)	35
74	Kayin	Christian	2	1	1	Native			0
75	Kayin	Christian	6	2	4	Immigrant	Myaung Mya	Kyi Su	37
76	Kayin	Buddhist	2	1	1	Immigrant	Laputta	Gyi	1
77	Kayin	Christian	2	1	1	Native			0
78	Kayin	Christian	1	1	0	Native			0
79	Myanmar	Buddhist	3	2	1	Immigrant	NPT	Ma Gyi Pin	4
80	Rakhine	Buddhist	6	3	3	Immigrant	Laputta	Da Ni Seik	1
81	Myanmar	Buddhist	3	1	2	Immigrant	NPT	Ma Gyi Pin	1
82	Myanmar	Buddhist	3	2	1	Immigrant	Laputta	Sar Chet	8
83	Myanmar	Buddhist	4	2	2	Native			0
84	Myanmar	Buddhist	3	2	1	Native			0
85	Myanmar	Buddhist	4	2	2	Immigrant	Laputta	Sar Chet	9
86	Kayin	Buddhist	7	4	3	Immigrant	Laputta	Le Gyaw	1
87	Myanmar	Buddhist	9	2	7	Immigrant	Laputta	Sar Chet	12
88	Kayin	Christian	3	2	1	Native			0
89	Kayin	Christian	8	5	3	Immigrant	Laputta	Shaw Chaung	8
90	Kayin	Christian	5	4	1	Immigrant	Wakema	Nyaung lay Pin	1
91	Myanmar	Buddhist	6	2	4	Native			0
92	Kayin	Christian	4	2	2	Immigrant	Laputta	Kyun Chaung	1
93	Myanmar	Buddhist	6	3	3	Immigrant	Bogalay	Kadone Myo	3
94	Kayin	Christian	6	4	2	Immigrant	Laputta	Myit Pauk	1
95	Myanmar	Buddhist	6	3	3	Immigrant	Laputta	Sar Chet	4
96	Kayin	Christian	6	4	2	Native			0
97	Kayin	Christian	4	2	2	Native			0
98	Myanmar	Buddhist	2	1	1	Native			0
99	Myanmar	Buddhist	7	4	3	Immigrant	Wakema	Padaut Kone	20
100	Myanmar	Buddhist	5	2	3	Immigrant	Laputta		8
101	Myanmar	Buddhist	5	2	3	Immigrant	Laputta	Downtown	20
102	Myanmar	Buddhist	2	1	1	Immigrant	Laputta	Downtown	15
103	Myanmar	Buddhist	2	1	1	Immigrant	Laputta	Downtown	20
104	Myanmar	Buddhist	7	4	3	Immigrant	Laputta	Shaw Chaung	4
105	Kayin	Buddhist	3	2	1	Immigrant	Laputta	Ohn Ta Pin	2
106	Indian	Muslim	6	3	3	Immigrant	Laputta	Be Tut	1
107	Myanmar	Buddhist	3	1	2	Immigrant	Laputta	Sar Gyi	8
108	Myanmar	Buddhist	7	4	3	Immigrant	Laputta	Sar Gyi	8
109	Myanmar	Buddhist	6	1	5	Immigrant	Wakema	Than Gyo Tine	15
110	Myanmar	Buddhist	4	3	1	Immigrant	Wakema	Than Gyo Tine	16
111	Myanmar	Buddhist	2	1	1	Immigrant	Laputta	YeDwin Seik	3
112	Myanmar	Buddhist	4	2	2	Native			0
113	Kayin	Christian	5	3	2	Native			0
114	Myanmar	Buddhist	4	2	2	Immigrant	Laputta	Ohn Ta Pin	2
115	Myanmar	Christian	5	2	3	Immigrant	Laputta	Chaung	1

Table 6.2 Population in Age

HH No.	Under 5		5 to under10		10 to under 15		15 to under 60		60 and above		Total male and female		household
	M	F	M	F	M	F	M	F	M	F	M	F	
Thar Yar Kone													
1	0	0	0	0	0	0	2	1	0	1	2	2	4
2	2	0	0	2	0	0	1	1	0	0	3	3	6
3	1	1	1	0	0	0	1	1	0	0	3	2	5
4	2	0	0	1	1	1	1	2	0	0	4	4	8
5	0	1	0	1	1	1	1	1	0	0	2	4	6
6	0	1	0	1	0	0	1	1	0	0	1	3	4
7	0	0	1	0	0	0	1	2	0	0	2	2	4
8	0	0	0	2	0	0	1	1	0	1	1	4	5
9	1	0	0	0	0	0	1	1	0	0	2	1	3
10	0	0	0	0	1	0	1	1	1	0	3	1	4
11	1	0	1	0	0	1	1	1	0	0	3	2	5
12	0	0	0	0	0	0	1	1	1	0	2	1	3
13	0	0	0	0	0	0	0	1	0	0	0	1	1
14	1	0	1	0	1	2	2	2	0	0	5	4	9
15	0	0	0	0	0	0	1	0	0	1	1	1	2
16	1	0	0	1	0	0	1	1	0	0	2	2	4
17	0	0	1	0	2	0	2	1	0	0	5	1	6
18	0	1	2	0	0	0	3	0	1	0	6	1	7
19	0	1	0	0	0	0	3	2	0	0	3	3	6
20	0	0	0	0	0	0	1	1	0	0	1	1	2
21	0	1	0	2	1	0	2	1	0	0	3	4	7
22	0	0	0	1	0	1	2	1	0	0	2	3	5
23	0	1	0	0	0	2	1	3	0	0	1	6	7
24	0	1	1	1	1	1	2	1	0	0	4	4	8
25	0	0	1	1	2	0	0	1	0	0	3	2	5
26	0	1	0	1	1	2	1	1	0	0	2	5	7
27	0	0	0	0	0	0	0	2	0	0	0	2	2
28	0	1	0	0	0	0	2	2	0	0	2	3	5
29	0	0	0	0	0	0	2	1	0	0	2	1	3
30	1	0	0	1	0	0	1	1	0	0	2	2	4
31	0	0	1	1	1	1	3	2	0	0	5	4	9
32	0	0	1	0	0	0	1	2	1	0	3	2	5
33	0	1	2	0	2	0	3	2	0	0	7	3	10
34	0	0	0	0	0	1	3	1	0	0	3	2	5
35	0	0	0	0	0	0	1	1	0	0	1	1	2
36	0	0	0	0	1	0	1	1	1	0	3	1	4
37	0	0	0	0	0	0	1	1	0	0	1	1	2
38	0	0	1	1	0	0	2	2	0	0	3	3	6
39	1	1	1	1	1	1	1	1	1	0	5	4	9
40	0	0	0	0	1	0	1	0	0	1	2	1	3
41	1	0	1	1	2	1	3	1	0	0	7	3	10
42	0	0	1	0	0	1	2	3	0	0	3	4	7
43	0	0	0	2	1	0	1	2	0	0	2	4	6
44	0	0	0	0	0	0	1	1	0	0	1	1	2
45	0	0	0	0	0	0	1	0	0	1	1	1	2
46	1	0	0	0	0	0	1	1	0	0	2	1	3
47	0	1	0	0	0	0	1	1	0	0	1	2	3
48	0	1	0	1	0	0	1	1	0	0	1	3	4
49	0	0	0	0	0	0	1	0	0	1	1	1	2
50	0	1	1	1	1	0	1	1	0	0	3	3	6
51	0	0	0	0	0	0	1	0	0	1	1	1	2
52	0	0	1	0	1	2	1	1	0	0	3	3	6
53	0	0	0	0	0	0	1	1	0	0	1	1	2
54	0	0	2	0	0	1	2	1	0	0	4	2	6
55	0	1	1	1	0	0	1	1	0	0	2	3	5
56	0	0	0	0	0	0	1	1	0	0	1	1	2
57	0	2	2	0	0	1	1	1	0	0	3	4	7
58	0	0	1	0	0	1	3	1	0	0	4	2	6
59	1	0	2	0	0	0	1	1	0	0	4	1	5
60	0	0	1	0	0	1	1	1	0	0	2	2	4
61	0	1	1	0	1	0	1	1	0	0	3	2	5
62	1	0	0	0	0	0	1	1	0	0	2	1	3
63	0	0	0	0	0	0	3	1	0	0	3	1	4
64	0	0	0	1	0	0	1	1	0	0	1	2	3
65	0	0	0	0	2	0	2	0	0	0	4	0	4
66	0	0	0	0	0	0	1	1	0	0	1	1	2
67	0	1	0	1	0	0	1	1	1	0	2	3	5
68	0	1	0	0	0	0	1	1	0	0	1	2	3
69	0	1	2	0	0	1	1	1	0	0	3	3	6
70	1	1	0	0	0	1	1	1	0	0	2	3	5
71	0	0	1	0	0	0	3	1	0	0	4	1	5
72	2	1	0	0	0	0	1	1	0	0	3	2	5
73	1	0	0	0	0	0	1	1	0	0	2	1	3

Table 6.2 Population in Age

HH No.	Under 5		5 to under10		10 to under 15		15 to under 60		60 and above		Total male and female		
	M	F	M	F	M	F	M	F	M	F	M	F	househol d
74	2	0	0	1	2	0	3	1	0	0	7	2	9
75	0	2	2	0	0	0	1	1	0	0	3	3	6
76	1	1	1	0	0	0	1	1	0	0	3	2	5
77	0	0	0	0	0	1	4	2	0	0	4	3	7
78	0	0	0	0	0	0	1	1	0	0	1	1	2
79	1	0	0	0	0	0	1	1	0	0	2	1	3
80	0	1	0	1	0	1	3	1	0	0	3	4	7
81	0	0	0	0	0	0	1	1	0	0	1	1	2
82	0	2	0	0	0	0	1	1	0	0	1	3	4
Total	23	30	35	28	27	26	116	91	7	7	208	182	390

Thar Yar Kone
Avg. HH members per HH 3.39
Dependent of younger age 169
Dependent of older age 14
Dependent on age 183
Dependency ratio 0.88
Sex raio 1.14

Nyaung Ta Pin													
1	0	1	1	1	0	3	1	1	0	0	2	6	8
2	1	0	0	0	1	0	1	2	0	0	3	2	5
3	0	1	1	0	0	0	1	1	0	0	2	2	4
4	0	0	1	0	0	0	1	1	0	0	2	1	3
5	0	0	1	1	1	0	4	3	0	0	6	4	10
6	0	0	1	1	1	0	1	1	0	0	3	2	5
7	1	0	0	1	0	0	0	1	0	0	1	2	3
8	1	1	1	0	0	0	2	2	0	0	4	3	7
9	1	0	2	0	0	0	2	3	0	0	5	3	8
10	0	0	1	0	1	0	1	1	0	0	3	1	4
11	0	0	0	0	0	0	0	0	1	1	1	1	2
12	0	0	0	0	0	1	0	0	0	1	0	2	2
13	0	0	0	0	0	1	0	1	0	0	0	2	2
14	0	1	1	2	1	1	1	2	0	0	3	6	9
15	0	0	1	0	1	0	1	2	0	0	3	2	5
16	2	1	0	0	0	0	1	1	0	0	3	2	5
17	1	0	0	0	0	0	2	1	1	0	4	1	5
18	0	0	0	1	0	0	1	1	0	0	1	2	3
19	0	0	0	0	0	0	0	1	0	1	0	2	2
20	0	0	0	0	0	0	2	3	0	0	2	3	5
21	0	0	0	0	0	0	1	1	0	0	1	1	2
22	2	0	0	0	0	0	1	1	0	0	3	1	4
23	0	0	0	0	0	0	0	0	0	1	0	1	1
24	0	1	0	0	0	0	1	1	0	0	1	2	3
25	0	2	0	0	0	0	1	1	0	0	1	3	4
26	0	0	1	1	0	0	1	0	0	0	2	1	3
27	0	0	0	0	1	0	1	2	1	0	3	2	5
28	0	0	0	1	0	2	0	4	0	0	0	7	7
29	0	0	0	0	0	0	1	1	0	0	1	1	2
30	2	0	0	1	1	2	2	1	0	0	5	4	9
31	2	0	0	0	0	0	1	1	0	0	3	1	4
32	0	2	0	1	1	2	2	2	0	0	3	7	10
33	0	0	1	0	0	0	1	1	0	0	2	1	3
34	0	0	1	1	0	0	1	1	0	0	2	2	4
35	1	1	0	0	0	0	1	1	0	0	2	2	4
36	1	1	0	2	0	0	2	1	0	0	3	4	7
37	1	0	0	1	1	0	1	1	0	0	3	2	5
38	1	0	0	0	0	0	1	1	0	0	2	1	3
39	1	0	1	0	0	0	3	1	0	1	5	2	7
40	0	0	0	0	0	0	0	1	0	0	0	1	1
41	2	0	0	1	1	0	2	2	1	0	6	3	9
42	0	0	0	0	1	1	1	1	1	0	3	2	5
43	1	1	0	2	0	1	1	1	0	0	2	5	7
44	0	0	0	0	0	3	1	3	0	0	1	6	7
45	0	1	0	0	0	0	1	2	0	0	1	3	4
46	0	0	0	0	0	0	1	0	0	1	1	1	2
47	0	0	1	0	1	0	2	2	0	0	4	2	6
48	1	0	0	1	0	1	2	2	0	0	3	4	7
49	0	1	0	1	1	1	1	1	0	0	2	4	6
50	0	0	0	0	0	0	1	1	0	0	1	1	2
51	1	0	1	0	1	0	1	1	0	0	4	1	5
52	0	0	0	0	0	0	0	0	1	0	1	0	1
53	1	1	0	0	0	0	1	1	0	0	2	2	4
54	0	0	1	1	0	0	0	2	0	0	1	3	4
55	0	0	0	0	0	0	1	1	0	0	1	1	2
56	0	0	0	0	0	0	1	0	1	1	2	1	3
57	0	1	0	0	1	0	0	1	1	1	2	3	5

Table 6.2 Population in Age

HH No.	Under 5		5 to under10		10 to under 15		15 to under 60		60 and above		Total male and female		househol d
	M	F	M	F	M	F	M	F	M	F	M	F	
58	0	1	2	0	0	1	1	1	1	0	4	3	7
59	0	0	0	1	1	0	2	3	0	0	3	4	7
60	0	1	0	1	0	0	1	1	0	0	1	3	4
61	0	1	0	0	0	0	1	1	0	0	1	2	3
62	1	0	0	0	0	1	2	2	0	0	3	3	6
63	1	1	1	0	0	0	1	1	0	0	3	2	5
64	0	1	1	0	0	0	1	1	0	0	2	2	4
65	0	1	0	0	0	0	1	1	0	0	1	2	3
66	0	0	0	0	2	0	2	1	0	0	4	1	5
67	0	0	0	0	0	0	1	1	0	0	1	1	2
68	1	0	0	0	0	0	2	1	0	0	3	1	4
69	1	0	0	1	0	0	1	1	0	0	2	2	4
70	0	1	0	1	1	0	1	3	0	0	2	5	7
71	1	1	1	0	0	0	0	1	0	1	2	3	5
72	1	0	0	1	1	1	1	1	0	0	3	3	6
73	1	0	0	0	0	1	3	1	1	0	5	2	7
74	0	0	0	0	0	0	1	1	0	0	1	1	2
75	0	0	0	0	1	2	0	2	1	0	2	4	6
76	0	0	0	0	0	0	1	1	0	0	1	1	2
77	0	0	0	0	0	0	1	1	0	0	1	1	2
78	0	0	0	0	0	0	0	0	1	0	1	0	1
79	0	0	0	0	1	0	1	0	0	1	2	1	3
80	0	1	0	0	0	0	3	2	0	0	3	3	6
81	0	0	0	0	0	1	1	1	0	0	1	2	3
82	0	0	1	0	0	0	1	1	0	0	2	1	3
83	1	0	0	1	0	0	1	1	0	0	2	2	4
84	0	0	1	0	0	0	1	1	0	0	2	1	3
85	0	0	1	0	0	1	1	1	0	0	2	2	4
86	1	0	0	1	0	1	3	1	0	0	4	3	7
87	1	3	0	1	0	2	1	1	0	0	2	7	9
88	0	0	0	0	0	1	1	1	0	0	1	2	3
89	0	2	1	0	3	0	1	1	0	0	5	3	8
90	2	0	1	0	0	0	1	1	0	0	4	1	5
91	0	1	1	1	0	1	1	1	0	0	2	4	6
92	0	1	0	0	1	0	1	1	0	0	2	2	4
93	0	0	1	0	1	0	1	2	0	1	3	3	6
94	1	0	1	0	1	1	1	1	0	0	4	2	6
95	0	1	1	1	1	0	1	1	0	0	3	3	6
96	0	0	1	0	1	1	2	1	0	0	4	2	6
97	1	0	0	1	0	0	1	1	0	0	2	2	4
98	0	0	0	0	0	0	1	1	0	0	1	1	2
99	2	0	0	1	1	0	1	2	0	0	4	3	7
100	0	1	1	0	0	1	1	1	0	0	2	3	5
101	0	2	1	0	0	0	1	1	0	0	2	3	5
102	0	0	0	0	0	0	0	1	1	0	1	1	2
103	0	0	0	0	0	0	1	0	0	1	1	1	2
104	0	0	1	1	1	0	2	2	0	0	4	3	7
105	0	1	0	0	0	0	1	1	0	0	1	2	3
106	1	0	0	0	1	0	1	3	0	0	3	3	6
107	0	1	0	0	0	0	1	1	0	0	1	2	3
108	0	0	0	1	2	0	1	2	1	0	4	3	7
109	0	1	0	1	0	1	1	1	0	1	1	5	6
110	0	0	1	0	0	0	2	1	0	0	3	1	4
111	0	0	0	0	0	0	1	1	0	0	1	1	2
112	0	0	0	0	0	0	1	2	1	0	2	2	4
113	0	1	0	0	2	0	1	1	0	0	3	2	5
114	0	1	0	0	0	0	2	1	0	0	2	2	4
115	0	1	0	1	1	0	1	1	0	0	2	3	5
Total	41	43	37	37	39	36	129	141	15	13	261	270	531

Nyaung Ta Pin	Avg. HH members per HH	4.62
	Dependent of younger age	233
	Dependent of older age	28
	Dependent on age	261
	Dependency ratio	0.97
	Sex ratio	96.67

Table 6.3 Population in Education

HH No.	Illiterate		Literate only		Monastery education		Primary		Middle		High		Under-graduate		Infant		Unenrolled	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Thar Yar Kone																		
1	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	1	0	0
3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	1	0	0
4	0	0	0	0	0	0	2	4	0	0	0	0	0	0	2	0	0	0
5	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	2	0	0
6	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	0	1
7	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
8	0	0	0	0	0	0	1	2	0	1	0	0	0	0	0	1	0	0
9	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0
10	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	2	2	0	0	0	0	0	0	1	0	0	0
12	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	3	4	0	0	0	0	0	0	1	0	1	0
15	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0
17	0	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	0	0
18	0	0	0	0	1	0	2	0	1	0	0	0	0	0	0	1	2	0
19	0	0	0	0	0	0	0	0	3	1	0	1	0	0	0	1	0	0
20	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
21	0	0	2	1	0	0	1	1	0	0	0	0	0	0	0	2	0	0
22	0	0	0	0	1	0	1	2	0	1	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	1	0
24	1	1	0	0	0	0	2	2	0	0	0	0	0	0	1	1	0	0
25	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	3
26	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0
27	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	1	0	0
29	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0
31	0	0	0	0	0	0	4	3	0	0	0	0	0	0	1	1	0	0
32	0	0	1	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	6	2	1	0	0	0	0	0	0	1	0	0
34	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	2	3	0	0	0	0	0	0	1	0	0	0
39	0	0	0	0	2	1	2	1	0	1	0	0	0	0	1	1	0	0
40	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0
41	0	0	0	0	0	0	5	3	1	0	0	0	0	0	1	0	0	0
42	0	0	0	0	0	0	3	3	0	1	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	2	3	0	1	0	0	0	0	0	0	0	0
44	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
47	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0
48	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	0
49	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
50	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0
51	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	1	0	3	2	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	1	0	0
56	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	2	0	0
58	0	0	1	1	0	0	3	1	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	3	1	0	0	0	0	0	0	1	0	0	0
60	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	1	0	0
62	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
63	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0
65	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	0
68	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0
69	0	0	0	0	0	0	2	2	0	0	0	0	0	0	1	1	0	0
70	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1	0	0
71	0	0	0	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0
72	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0
73	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1

Table 6.3 Population in Education

HH No.	Illiterate		Literate only		Monastery education		Primary		Middle		High		Under-graduate		Infant		Unenrolled	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
74	0	0	0	0	0	0	3	1	0	0	0	0	0	0	2	0	2	0
75	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	2	0	0
76	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0
77	0	0	0	0	1	1	3	1	0	1	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0
80	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	1	0	0
81	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	0	0
Total	2	6	5	3	21	9	118	101	22	18	0	2	0	0	31	37	9	6
Nyaung Ta Pin																		
1	1	1	0	0	0	0	0	4	0	0	0	0	0	0	1	1	0	0
2	1	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0
3	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	1	0	0
4	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0
5	2	2	0	0	3	0	1	1	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0
7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0
9	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1	0	0	0
10	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0
11	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	1	0	0
15	0	2	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	1	0	0
17	1	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0
18	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0
19	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0
21	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
22	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
23	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0
25	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	0	0
26	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1
27	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	3	0	2	0	1	0	1	0	0	0	0
29	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	3	4	0	0	0	0	0	0	2	0	0	0
31	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0
32	0	0	0	0	1	0	2	4	0	0	0	0	0	0	0	2	0	1
33	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
34	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0
36	0	0	0	0	0	0	1	3	1	0	0	0	0	0	1	1	0	0
37	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0
38	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
39	0	0	0	0	0	0	1	2	1	0	2	0	0	0	1	0	0	0
40	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
41	0	0	1	0	0	0	3	3	0	0	0	0	0	0	2	0	0	0
42	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	0	0	0
43	1	1	0	0	0	0	0	3	0	0	0	0	0	0	1	1	0	0
44	0	0	0	0	1	1	0	5	0	0	0	0	0	0	0	0	0	0
45	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0
46	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	1	3	1	1	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	2	4	0	0	0	0	0	0	1	0	0	0
49	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	1	0	0
50	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	1	1	1	0	1	0	0	0	1	0	0	0
52	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0
54	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
56	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0
58	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0
59	0	0	0	0	0	0	3	2	0	2	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	0	0
61	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0
62	0	0	0	0	1	0	1	3	0	0	0	0	0	0	1	0	0	0
63	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	1	0	0

Table 6.3 Population in Education

HH No.	Illiterate		Literate only		Monastery education		Primary		Middle		High		Under-graduate		Infant		Unenrolled		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
64	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0
65	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
66	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0
69	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0
70	0	0	0	0	1	0	1	3	0	0	0	0	0	0	0	0	1	0	1
71	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0
72	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	0	1
73	0	0	0	0	1	0	3	2	0	0	0	0	0	0	0	1	0	0	0
74	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	2	1	0	2	0	1	0	0	0	0	0	0	0
76	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
80	0	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0
81	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
83	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0
84	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
86	2	1	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0
87	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	1	3	0	0
88	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
89	1	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	2	0	0
90	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	2	0	0	0
91	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1
92	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0
93	0	0	0	0	0	0	3	2	0	1	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	0	1	0
95	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	1	0	0
96	0	0	0	0	1	0	3	2	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0
98	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	2	0	0	1
100	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	1	1	0
101	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	2	0	0
102	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0	1	1	0
105	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0
106	0	0	0	0	0	0	2	1	0	2	0	0	0	0	0	1	0	0	0
107	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
108	0	1	0	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	1
109	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	0	1
110	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0
111	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
112	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
113	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0
114	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0
115	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	2	0	0	0
Total	13	24	4	2	60	39	115	129	11	16	3	4	0	1	47	46	7	10	

Table 6.4 Income from Various Sources

HH No.	Agriculture				Fishery				Wage Labour			Others					Total Income	Debt amount
	Paddy	Coconut	Vegetable	Nipa thatch	Poultry farming	Crab catching	Fishing	FD Nursery	Paddy Transplanting	Paddy Harvesting	Cutting woods	Prawn pond	Food retail	Carpenter	Teacher	Others		
Thar Yar Kone																		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290,000	290,000	0
2	0	0	0	0	10,000	120,000	0	40,000	20,000	20,000	0	0	0	0	0	0	210,000	0
3	0	0	0	0	0	130,000	0	0	31,000	31,000	0	0	0	0	0	0	192,000	0
4	0	0	0	0	0	160,000	0	0	75,000	75,000	0	0	0	0	0	0	310,000	10,000
5	0	0	0	0	0	50,000	0	240,000	0	0	0	0	0	0	0	0	290,000	0
6	0	0	0	0	0	200,000	0	0	4,500	4,500	0	0	0	0	0	0	209,000	5,000
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	350,000	350,000	0
8	0	0	0	0	0	120,000	0	0	5,000	5,000	0	0	0	0	0	0	130,000	10,000
9	0	0	0	0	0	100,000	0	34,000	17,500	17,500	0	0	0	0	0	0	169,000	0
10	0	0	0	0	0	0	0	300,000	0	0	0	0	0	0	0	0	300,000	0
11	0	0	0	0	120,000	40,000	0	40,000	0	0	0	0	0	0	0	0	200,000	0
12	0	0	0	0	0	300,000	0	0	70,000	70,000	0	0	0	0	0	0	440,000	0
13	0	0	0	0	0	0	0	210,000	75,000	75,000	0	0	0	0	0	0	360,000	0
14	0	0	0	0	0	50,000	0	0	10,000	10,000	0	0	0	0	0	0	70,000	0
15	0	0	0	0	0	68,000	0	0	75,000	75,000	0	0	0	0	0	0	218,000	10,000
16	0	0	0	0	0	134,000	50,000	0	0	0	0	0	0	0	0	0	184,000	4,000
17	0	0	0	0	0	530,000	0	0	27,000	27,000	0	0	0	0	0	0	584,000	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	476,000	476,000	0
19	0	0	0	0	0	0	0	352,000	0	0	0	0	0	0	0	0	352,000	0
20	0	0	0	0	0	180,000	0	0	75,000	75,000	0	0	0	0	0	0	330,000	0
21	0	0	0	0	0	250,000	0	0	125,000	125,000	0	0	0	0	0	0	500,000	0
22	0	0	0	0	0	378,000	0	0	47,500	47,500	0	0	0	0	0	0	473,000	0
23	0	0	0	0	0	0	100,000	0	30,000	30,000	0	0	0	0	0	0	160,000	0
24	0	0	0	0	0	226,800	0	0	2,500	2,500	0	0	0	0	0	0	231,800	0
25	0	0	0	0	0	150,000	0	0	27,500	27,500	0	0	0	0	0	0	205,000	0
26	0	0	0	0	0	110,000	0	0	40,000	40,000	0	0	0	0	0	0	190,000	0
27	0	8,000	0	0	0	115,000	0	0	60,000	60,000	0	0	0	0	0	0	243,000	0
28	0	0	0	0	0	90,000	0	0	30,000	30,000	0	0	0	0	0	0	150,000	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	374,400	374,400	0
30	0	0	0	0	0	180,000	0	0	90,000	90,000	0	0	0	0	0	0	360,000	0
31	0	0	0	0	0	0	0	0	115,000	120,000	0	0	0	0	0	0	235,000	0
32	0	0	0	0	0	0	0	0	120,000	120,000	0	0	0	0	0	0	240,000	0
33	0	0	0	0	0	32,000	15,000	0	4,000	4,000	0	0	0	0	0	0	55,000	0
34	0	0	0	0	0	160,000	0	0	0	0	0	0	0	0	0	0	160,000	0
35	0	0	0	0	0	400,000	0	0	0	0	0	0	0	0	0	0	400,000	0
36	0	15,000	0	0	0	150,000	0	0	0	0	0	0	0	0	0	0	165,000	0
37	0	0	0	0	0	150,000	0	0	0	0	0	0	0	0	0	350,000	500,000	0
38	0	0	0	0	0	80,000	0	0	0	0	0	0	0	0	0	0	80,000	0
39	0	0	0	0	0	180,000	0	0	0	0	0	0	0	0	0	0	180,000	0
40	0	0	0	0	0	480,000	0	0	0	0	0	0	0	0	0	0	480,000	0
41	0	0	0	0	0	95,000	0	0	0	0	0	0	0	0	0	0	95,000	0
42	70,000	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	170,000	0
43	0	17,000	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	117,000	0
44	0	15,000	0	0	35,000	0	0	0	0	0	0	0	0	0	0	0	50,000	0
45	0	15,000	0	0	0	150,000	0	0	0	0	0	0	0	0	0	0	165,000	0
46	0	82,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82,000	0
47	0	50,000	0	120,000	0	24,000	60,000	0	0	0	0	0	0	0	0	0	254,000	0
48	240,000	20,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260,000	0
49	150,000	70,000	0	0	0	0	300,000	0	0	0	0	0	0	0	0	0	520,000	25,000
50	65,000	0	0	0	0	50,000	0	0	40,000	40,000	0	0	0	0	0	0	195,000	0
51	35,000	0	0	0	0	100,000	0	0	40,000	40,000	0	0	0	0	0	0	215,000	0
52	150,000	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	250,000	0
53	75,000	0	0	0	0	55,000	50,000	0	5,000	5,000	0	0	0	0	0	0	190,000	0
54	50,000	0	0	0	0	0	90,000	0	0	0	0	0	0	0	0	0	140,000	0
55	100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100,000	0
56	90,000	0	0	0	0	60,000	0	0	5,000	5,000	0	0	0	0	0	0	160,000	0
57	70,000	0	0	0	0	160,000	0	0	0	0	0	0	0	0	0	0	230,000	0
58	200,000	27,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	227,000	0
59	670,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	670,000	0
60	50,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50,000	0
61	160,000	0	0	0	0	0	0	20,000	12,500	12,500	0	0	0	0	0	0	205,000	0
62	180,000	0	0	0	0	30,000	0	0	0	0	0	0	0	0	0	0	210,000	10,000
63	50,000	0	0	0	0	261,000	0	0	0	0	0	0	0	0	0	0	311,000	0
64	192,000	48,000	0	0	0	0	0	0	0	0	0	180,000	0	0	0	0	420,000	0
65	0	150,000	0	0	0	0	80,000	0	0	0	0	0	0	0	0	0	230,000	0
66	20,000	0	0	0	0	0	0	0	0	0	100,000	0	0	0	0	0	120,000	100,000
67	600,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	600,000	0
68	90,000	0	0	0	0	140,000	0	0	20,000	0	0	0	0	0	0	0	250,000	0
69	430,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	430,000	0
70	35,000	0	0	0	0	7,000	100,000	0	0	20,000	0	0	0	0	0	0	162,000	0
71	320,000	0	0	0	0	130,000	20,000	0	0	0	0	0	0	0	0	0	470,000	0
72	60,000	0	0	0	0	0	140,000	0	0	0	0	0	0	0	0	0	200,000	0
73	500,000	60,000	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	660,000	0

Table 6.4 Income from Various Sources

HH No.	(Kyat)																Total Income	Debt amount
	Agriculture				Fishery			Wage Labour			Others							
	Paddy	Coconut	Vegetable	Nipa thatch	Poultry farming	Crab catching	Fishing	FD Nursery	Paddy Transplanting	Paddy Harvesting	Cutting woods	Prawn pond	Food retail	Carpenter	Teacher	Others		
74	320,000	0	0	0	0	120,000	0	0	0	0	0	0	0	0	0	0	440,000	
75	100,000	0	0	0	0	0	360,000	0	0	0	0	2,400,000	0	0	0	0	2,860,000	150,000
76	0	0	0	0	0	140,000	140,000	0	0	0	0	0	0	0	0	0	280,000	
77	0	18,000	0	0	0	408,000	120,000	0	0	0	0	0	0	0	0	0	546,000	4,000
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200,000	200,000	0
79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157,000	157,000	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	898,000	898,000	0
81	320,000	0	0	0	0	0	0	0	0	0	0	200,000	0	0	0	0	520,000	
82	0	0	0	0	0	0	0	0	0	0	0	0	0	453,500	0	0	453,500	50,000
Total	5,392,000	595,000	0	120,000	165,000	7,643,800	1,625,000	1,236,000	1,299,000	1,304,000	0	100,000	2,780,000	0	453,500	3,095,400	25,808,700	
Num of HH	29	14	0	1	3	50	14	8	30	30	0	1	3	0	1	8		
Nyaung Ta Pin																		
1	0	160,000	0	0	0	180,000	0	0	20,000	20,000	0	0	0	0	0	0	380,000	
2	0	0	0	0	0	72,000	0	0	72,000	72,000	0	250,000	0	0	0	0	466,000	
3	0	0	0	0	0	150,000	0	0	0	0	150,000	0	0	0	0	0	300,000	
4	0	0	0	0	0	150,000	0	0	0	0	132,000	0	0	0	0	0	282,000	
5	0	0	0	0	0	300,000	0	0	0	0	240,000	0	0	0	0	0	540,000	
6	0	0	0	0	0	0	180,000	0	0	0	95,000	0	0	0	0	0	275,000	
7	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	100,000	
8	0	0	0	0	0	240,000	0	0	0	0	24,000	0	12,000	0	0	0	276,000	
9	0	0	0	0	0	300,000	0	0	0	0	0	0	0	0	0	0	300,000	
10	0	0	0	0	0	200,000	0	0	0	0	50,000	0	0	0	0	0	250,000	
11	0	0	0	0	0	0	0	0	0	0	90,000	0	0	0	0	0	90,000	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180,000	180,000	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140,000	140,000	
14	0	0	0	0	0	190,000	0	0	0	0	30,000	0	0	0	0	0	220,000	
15	0	0	0	0	0	36,000	0	0	0	0	240,000	0	0	0	0	0	276,000	
16	0	0	0	0	0	145,000	0	0	0	0	0	0	0	0	0	0	145,000	
17	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0	0	0	200,000	
18	0	0	0	0	0	180,000	0	0	0	0	70,000	0	0	0	0	0	250,000	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108,000	108,000	
20	0	0	0	0	0	0	180,000	0	180,000	0	0	0	0	0	0	0	360,000	
21	0	0	0	0	0	0	0	0	0	0	240,000	0	0	0	0	0	240,000	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50,000	50,000	
23	0	140,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140,000	
24	0	0	0	0	0	40,000	0	0	0	0	45,000	0	0	0	0	0	85,000	
25	0	0	0	0	0	36,000	0	0	0	0	0	0	180,000	0	0	0	216,000	
26	0	0	0	0	0	70,000	0	0	0	0	0	0	0	0	0	0	70,000	
27	0	0	0	0	0	120,000	0	0	0	0	240,000	0	0	0	0	0	360,000	
28	0	81,000	0	120,000	0	0	0	0	0	0	0	0	100,000	0	0	0	301,000	
29	0	0	0	0	0	300,000	0	0	0	0	0	0	0	0	0	0	300,000	
30	0	0	0	0	0	180,000	2,640,000	0	0	0	0	0	0	0	0	0	2,820,000	
31	0	0	0	0	0	0	360,000	0	0	0	0	0	0	0	0	0	360,000	
32	0	0	0	0	0	150,000	0	0	0	0	0	0	0	0	0	0	150,000	
33	0	0	0	0	0	120,000	0	0	0	0	0	0	0	0	0	0	120,000	
34	0	0	0	0	0	170,000	0	0	20,000	20,000	0	0	0	0	0	0	210,000	
35	0	0	0	0	0	140,000	0	0	40,000	40,000	0	0	0	0	0	0	220,000	
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200,000	200,000	
37	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0	0	0	200,000	
38	0	60,000	0	0	0	0	0	0	0	0	0	0	0	0	0	300,000	360,000	
39	542,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	542,000	
40	0	80,000	0	0	0	0	0	0	0	0	0	0	30,000	0	0	0	110,000	
41	0	100,000	0	0	0	340,000	0	0	0	0	0	0	0	0	0	0	440,000	
42	0	0	0	0	0	350,000	0	0	0	0	0	0	0	0	0	0	350,000	
43	0	0	0	0	0	325,000	0	0	0	0	0	0	0	0	0	0	325,000	
44	0	0	0	0	0	250,000	0	0	36,000	36,000	0	0	60,000	0	0	0	382,000	
45	0	24,000	0	0	0	160,000	0	0	0	0	0	0	0	0	0	0	184,000	
46	0	0	0	0	0	0	0	0	0	0	0	0	166,400	0	0	0	166,400	
47	0	40,000	0	0	0	150,000	0	0	40,000	40,000	0	0	0	15,000	0	0	285,000	30000
48	0	0	0	0	0	200,000	0	0	0	0	0	0	0	15,000	0	0	215,000	30000
49	0	0	0	0	0	120,000	0	0	50,000	50,000	0	0	0	0	0	0	220,000	
50	0	0	0	0	0	250,000	0	0	0	0	0	0	100,000	0	0	0	350,000	
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720,000	720,000	100000
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36,000	36,000	
53	0	0	0	0	0	140,000	70,000	0	0	0	0	0	0	0	0	0	210,000	
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245,000	245,000	10000
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160,800	160,800	
56	0	0	0	0	0	200,000	0	0	0	0	0	0	200,000	0	0	0	400,000	
57	0	0	0	0	0	170,000	0	0	60,000	60,000	0	0	0	0	0	0	290,000	5000
58	0	0	0	0	0	360,000	0	0	0	0	0	0	0	0	0	0	360,000	
59	0	0	0	0	0	252,000	0	0	25,000	25,000	0	0	0	0	0	0	302,000	
60	0	0	0	0	0	180,000	0	0	30,000	30,000	0	0	0	0	0	0	240,000	
61	0	0	0	0	0	240,000	0	0	0	0	0	0	0	0	0	0	240,000	

Table 6.4 Income from Various Sources

HH No.	Agriculture														Fishery			Wage Labour			Others				Total Income	Debt amount
	Paddy	Coconut	Vegetable	Nipa thatch	Poultry farming	Crab catching	Fishing	FD Nursery	Paddy		Cutting woods	Prawn pond	Food retail	Carpenter	Teacher	Others										
									Transplanting	Harvesting																
62	0	0	0	0	0	168,000	153,600	0	108,000	108,000	0	0	0	0	0	0	0	0	0	537,600	0					
63	0	0	0	0	0	130,000	0	0	40,000	40,000	0	0	0	0	0	0	0	0	0	210,000	0					
64	0	0	0	0	0	150,000	0	0	60,000	60,000	0	0	0	0	0	0	0	0	0	270,000	0					
65	0	0	0	0	0	160,000	0	0	50,000	50,000	0	0	0	0	0	0	0	0	0	260,000	0					
66	0	90,000	0	0	0	200,000	0	0	0	0	0	0	0	0	0	0	0	0	0	290,000	0					
67	0	0	0	0	0	160,000	0	0	40,000	40,000	0	0	0	0	0	0	0	0	0	240,000	0					
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	360,000	0	360,000	0					
69	0	0	0	0	0	160,000	0	0	40,000	40,000	0	0	0	0	0	0	0	0	0	240,000	0					
70	0	0	0	0	0	250,000	150,000	0	0	0	0	0	0	0	0	0	0	0	0	400,000	0					
71	0	84,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84,000	0					
72	0	0	0	0	0	250,000	0	0	0	0	0	0	0	0	0	0	0	0	0	250,000	0					
73	0	48,000	186,000	0	0	300,000	0	0	0	0	0	0	0	0	0	0	0	0	0	534,000	60000					
74	0	0	0	0	0	0	230,000	0	30,000	30,000	0	0	0	0	0	0	0	0	0	290,000	0					
75	180,000	90,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270,000	100000					
76	0	0	0	0	0	0	360,000	0	0	0	0	0	0	0	0	0	0	0	0	360,000	0					
77	1,336,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,336,000	45000					
78	0	0	0	0	0	90,000	40,000	0	0	0	0	0	0	0	0	0	0	0	0	130,000	0					
79	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0	0	0	0	0	0	200,000	0					
80	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	100,000	1000					
81	0	0	0	0	0	160,000	0	0	0	0	0	0	0	0	0	0	0	0	0	160,000	0					
82	0	0	0	0	0	130,000	0	0	0	0	0	0	0	0	0	0	0	0	0	130,000	0					
83	0	0	0	0	0	360,000	0	0	0	0	0	0	0	0	0	0	0	0	0	360,000	0					
84	0	0	0	0	0	230,000	0	0	40,000	40,000	0	0	0	0	0	0	0	0	0	310,000	0					
85	0	0	0	0	0	400,000	0	0	0	0	0	0	0	0	0	0	0	0	0	400,000	0					
86	0	0	0	0	0	300,000	0	0	15,000	15,000	0	0	0	0	0	0	0	0	0	330,000	0					
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	400,000	0	400,000	0					
88	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	100,000	0					
89	0	0	0	0	0	70,000	0	0	0	0	0	0	0	0	0	0	0	0	0	70,000	0					
90	0	0	0	0	0	0	265,000	0	0	0	0	0	0	0	0	0	0	0	0	265,000	0					
91	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	0	0	0	100,000	0					
92	0	0	0	0	0	180,000	0	0	0	0	0	0	0	0	0	0	0	0	0	180,000	0					
93	0	0	0	0	0	90,000	0	0	10,000	10,000	0	0	0	0	0	0	0	0	0	110,000	0					
94	0	0	0	0	0	50,000	0	0	60,000	60,000	0	0	0	0	0	0	0	0	0	170,000	0					
95	0	0	0	0	0	196,000	0	0	40,000	40,000	0	0	0	0	0	0	0	0	0	276,000	0					
96	0	0	0	0	0	200,000	40,000	0	32,500	32,500	0	0	0	0	0	0	0	0	0	305,000	0					
97	0	0	0	0	0	240,000	0	0	90,000	90,000	0	0	0	0	0	0	0	0	0	420,000	0					
98	0	0	0	0	0	95,000	0	0	80,000	80,000	0	0	0	0	0	0	0	0	0	255,000	0					
99	0	0	0	0	0	150,000	0	0	0	0	200,000	0	0	0	0	0	0	0	0	350,000	0					
100	0	0	0	0	0	280,000	0	0	0	0	0	0	0	0	0	0	0	0	0	280,000	0					
101	0	0	0	0	0	0	0	0	0	0	170,000	0	0	0	0	0	0	300,000	0	470,000	0					
102	0	0	0	0	0	120,000	0	0	22,500	22,500	0	0	0	0	0	0	0	0	0	165,000	0					
103	300,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300,000	50000					
104	0	0	0	0	0	350,000	0	0	0	0	0	0	0	0	0	0	0	0	0	350,000	0					
105	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0	0	0	0	0	0	200,000	0					
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	810,000	0	810,000	300000					
107	0	0	0	0	0	150,000	0	0	0	0	0	0	0	0	0	0	0	0	0	150,000	0					
108	0	0	0	0	0	120,000	0	0	0	0	140,000	0	0	0	0	0	0	0	0	260,000	0					
109	0	0	0	0	0	190,000	0	0	0	0	60,000	0	0	0	0	0	0	0	0	250,000	0					
110	0	0	0	0	0	0	0	0	50,000	50,000	112,000	0	0	0	0	0	0	0	0	212,000	0					
111	0	0	0	0	0	180,000	0	0	0	0	48,000	0	32,000	0	0	0	0	0	0	260,000	0					
112	0	0	0	0	0	120,000	0	0	0	0	0	0	0	0	0	0	0	0	0	120,000	0					
113	0	0	0	0	0	95,000	0	0	0	0	0	0	150,000	0	0	0	0	0	0	245,000	0					
114	0	0	0	0	0	400,000	0	0	0	0	0	0	0	0	0	0	0	0	0	400,000	0					
115	0	0	0	0	0	180,000	0	0	30,000	30,000	0	0	0	0	0	0	0	0	0	240,000	0					
Total	2,358,000	997,000	186,000	120,000	0	15,410,000	4,668,600	0	1,411,000	1,231,000	2,376,000	250,000	1,030,400	30,000	0	4,009,800	0	0	34,077,800	0						
Num. of HH	4	12	1	1	0	83	12	0	29	28	19	1	10	2	0	14	0	0	0	0	0					

Table 6.5 Out Look of the Pilot Project

No. of HH	Improvement of Physical aspect			Improvement on social and human factors			Enhancement of participation		Future Continuation of CF participation	Reason of answer
	Infrastructure	Vegetation	Income	Cohesiveness	Relationship change	Knowledge/techniques	in PP	inCF		
Thar Yar Kone										
1		1	1	0	1	1	1	1	1 Intensive participation	Getting benefit
2		1	1	1	1	1	1	1	1 Intensive participation	Getting land for livelihood
3		1	0	1	1	1	1	1	1 Continue participate	Getting land for growing forest for wood and fuel
4		1	0	1	1	1	1	1	1 Intensive participation	Getting benefit
5		1	1	0	1	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
6		1	1	1	1	1	0	0		No response
7		1	1	1	0	1	0	0		No response
8		1	1	1	0	0	0	1	1 Intensive participation	For better environment for the future generation
9		0	0	0	0	0	1	1	1 Continue participate	Getting land for livelihood
10		1	1	0	1	0	1	1	1 Continue participate	Getting land for growing forest for wood and fuel
11		1	1	1	1	1	1	1	1 Intensive participation	For better environment for the future generation
12		1	0	1	1	1	1	1	1 Intensive participation	Getting land for livelihood
13		1	1	0	0	1	0	0		No response
14		1	1	1	1	1	1	1	1 Intensive participation	For better environment for the future generation
15		1	1	1	1	1	1	1	1 Continue participate	Getting benefit
16		1	1	1	1	1	1	1	1 Continue participate	Getting land for livelihood
17		1	1	1	1	1	1	1	1 Intensive participation	Do as other villagers
18		1	1	1	1	1	1	1	1 Continue participate	Getting benefit
19		1	1	0	1	1	1	1	1 Continue participate	For better environment for the future generation
20		1	1	1	1	1	1	1	1 Intensive participation	Getting land for livelihood
21		1	0	0	0	0	1	1	1 Continue participate	Getting benefit
22		1	0	0	0	1	1	1	1 Continue participate	Getting land for growing forest for wood and fuel
23		1	1	1	0	1	1	1	1 Continue participate	Getting benefit
24		1	0	1	1	1	1	1	1 Continue participate	No response
25		0	1	0	1	0	0	0		No response
26		0	0	0	0	0	0	0		No response
27		0	0	0	0	0	0	0		No response
28		1	0	1	1	1	1	1	1 Intensive participation	For better environment for the future generation
29		1	1	1	1	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
30		1	0	1	0	1	1	1	1 Continue participate	Getting land for livelihood
31		1	1	1	1	1	1	1	1 Continue participate	Do as other villagers
32		0	0	0	0	0	0	0		No response
33		1	1	1	1	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
34		0	0	0	0	0	0	0		No response
35		0	0	0	0	0	0	0		No response
36		1	0	0	0	0	0	1	1 Continue participate	Getting land for growing forest for wood and fuel
37		1	1	1	1	1	1	1	1 Intensive participation	Getting land for livelihood
38		0	0	0	0	0	0	0		No response
39		0	0	0	0	0	0	0		No response
40		0	0	0	0	0	0	0		No response
41		0	0	0	0	0	0	0		No response
42		1	1	1	1	1	1	1	1 Intensive participation	Getting land for livelihood
43		1	1	1	0	1	0	1	1 Intensive participation	Getting land for growing forest for wood and fuel
44		1	1	1	1	1	1	1	1 Continue participate	little interest in CF
45		1	1	1	1	1	1	1	1 Intensive participation	Getting land for livelihood
46		1	1	1	1	1	1	1	1 Intensive participation	For better environment for the future generation
47		1	1	0	1	1	0	0		No response
48		1	1	1	0	1	0	0		No response
49		1	1	1	1	1	0	0		No response
50		1	0	1	1	1	1	1	1 Continue participate	Getting land for growing forest for wood and fuel
51		1	1	1	0	1	0	0		No response
52		1	0	1	1	0	1	1	1 Continue participate	Getting land for livelihood
53		1	1	1	1	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
54		1	0	0	0	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
55		0	0	0	0	0	1	1	1 Continue participate	Getting land for livelihood
56		0	0	0	0	0	0	0		No response
57		1	1	0	1	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
58		0	0	0	0	0	1	1	1 Continue participate	Getting land for livelihood
59		0	0	1	0	1	1	1	1 Continue participate	Getting benefit
60		0	1	0	0	1	1	1	1 Continue participate	For better environment for the future generation
61		1	0	0	0	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
62		1	0	0	0	1	0	1	1 Continue participate	Getting land for growing forest for wood and fuel
63		0	0	0	0	0	0	0		No response
64		1	1	0	1	1	1	1	1 No longer participate	Getting land for growing forest for wood and fuel
65		1	1	1	1	1	0	0		No response
66		1	0	1	1	1	1	1	1 Intensive participation	Getting land for growing forest for wood and fuel
67		1	1	0	1	1	1	1	1 Continue participate	For better environment for the future generation
68		1	1	1	1	1	0	0		No response
69		1	1	1	1	1	0	0		No response
70		1	1	1	1	1	1	0	0	No response
71		0	0	0	1	0	1	1	1 Continue participate	No response

Table 6.5 Out Look of the Pilot Project

No. of HH	Improvement of Physical aspect			Improvement on social and human factors			Enhancement of participation		Future Continuation of CF participation	Reason of answer
	Infrastructure	Vegetation	Income	Cohesiveness	Relationship change	Knowledge/techniques	in PP	inCF		
72	0	0	0	0	0	1	0	1	Continue participate	Getting land for livelihood
73	1	1	1	1	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel
74	1	0	1	1	1	1	1	1	Continue participate	No response
75	1	1	1	1	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel
76	0	1	0	1	1	1	0	0		No response
77	0	1	0	0	0	1	1	1	Continue participate	Getting land for livelihood
78	1	0	0	0	0	0	0	1	Continue participate	Do as other villagers
79	1	1	1	1	1	1	0	0		No response
80	0	0	0	0	0	1	0	1	Intensive participation	Getting land for livelihood
81	0	0	0	0	0	0	0	1	Continue participate	Getting land for growing forest for wood and fuel
82	0	0	0	0	0	0	0	0		No response
Total	0	58	45	43	46	57	49	56		
Nyaung Ta Pin										
1	0	0	0	0	0	0	1	1	Continue participate	Getting benefit
2	0	1	0	1	1	1	1	1	Continue participate	Getting land for growing forest for wood and fuel
3	1	1	1	1	1	1	0	0		No response
4	1	1	0	1	1	1	1	0	0	No response
5	0	0	0	0	0	0	0	0		No response
6	1	1	0	1	1	1	0	0		No response
7	0	0	0	0	0	0	0	0		No response
8	1	0	0	0	0	0	0	0		No response
9	1	1	0	0	1	0	0	0		No response
10	1	1	0	0	1	1	0	0		No response
11	0	0	0	0	0	0	0	0		No response
12	1	1	0	0	1	1	0	0		No response
13	0	0	0	0	1	1	0	0		No response
14	0	1	0	0	0	1	0	0		No response
15	0	0	0	0	0	0	0	0		No response
16	0	0	0	0	0	0	0	1	Continue participate	Interest in CF
17	0	1	1	1	1	0	1	0	Continue participate	Getting land for growing forest for wood and fuel
18	1	1	0	1	1	1	0	0		No response
19	1	1	1	1	1	0	0	0		No response
20	0	0	0	0	0	0	0	0		No response
21	0	0	0	0	0	0	0	0		No response
22	1	1	1	1	1	1	0	0		No response
23	1	0	0	1	1	1	0	0		No response
24	0	0	0	0	0	0	1	0		No response
25	0	0	0	0	0	0	0	0		No response
26	1	1	0	1	1	0	0	0		No response
27	0	0	0	0	0	0	0	0		No response
28	1	1	0	0	1	1	0	0		No response
29	0	0	0	0	0	0	0	0		No response
30	0	0	0	0	0	0	0	0		No response
31	0	0	0	0	0	0	0	0		No response
32	0	0	0	0	0	0	0	0		No response
33	0	0	0	0	0	0	0	0		No response
34	1	1	0	1	1	1	1	1	Intensive participation	Getting land for livelihood
35	1	1	0	1	1	1	0	0		No response
36	1	1	0	1	1	1	1	1	Continue participate	Getting benefit
37	0	0	0	0	0	0	0	0		No response
38	1	1	0	0	0	1	1	1	No longer participate	Livelihood problem
39	1	0	0	1	0	0	1	1	Continue participate	Getting benefit
40	0	0	0	0	0	0	0	0		No response
41	0	1	0	0	1	1	1		Continue participate	Getting benefit
42	1	1	0	1	1	1	0	1	No longer participate	Health
43	0	0	0	0	0	0	0	0		No response
44	1	1	0	1	0	1	0	0		No response
45	1	1	0	1	0	1	1	1	Continue participate	Getting benefit
46	1	1	0	0	0	1	1	1	Intensive participation	Getting land for livelihood
47	1	1	1	1	0	1	1	1	Intensive participation	For better environment for the future generation
48	1	1	0	1	0	1	1	1	Intensive participation	For better environment for the future generation
49	1	1	1	1	0	1	0	0		No response
50	0	1	1	1	0	1	0	1	Continue participate	For better environment for the future generation
51	0	1	1	1	0	0	1	1	Continue participate	Getting benefit
52	1	1	0	1	1	1	0	0		No response
53	0	1	0	0	1	1	1	1	Intensive participation	Getting benefit
54	1	1	0	1	1	1	1	0		No response
55	1	1	0	1	0	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel
56	0	0	0	0	0	0	0	0		No response
57	1	1	0	1	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel
58	0	0	0	0	1	1	1	1	Continue participate	No response
59	1	1	0	0	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel

Table 6.5 Out Look of the Pilot Project

No. of HH	Improvement of Physical aspect			Improvement on social and human factors			Enhancement of participation		Future Continuation of CF participation	Reason of answer		
	Infrastructure	Vegetation	Income	Cohesiveness	Relationship change	Knowledge/techniques	in PP	inCF				
60	0	0	0	1	1	1	1	1	1	Continue participate	For better environment for the future generation	
61	0	0	0	0	0	0	0	0	0		No response	
62	1	1	0	1	1	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel	
63	1	1	0	1	1	1	1	0	0		No response	
64	1	1	0	1	1	1	1	1	1	Intensive participation	Getting benefit	
65	1	1	1	1	1	1	1	1	1	Intensive participation	For better environment for the future generation	
66	0	0	0	0	0	0	0	0	0		No response	
67	1	1	1	1	1	1	1	1	1	Intensive participation	Getting land for livelihood	
68	0	0	0	0	1	0	1	1	1	Continue participate	No response	
69	1	1	1	1	1	1	1	1	1	Intensive participation	Getting benefit	
70	0	1	0	0	0	1	1	1	1	Continue participate	Getting benefit	
71	0	0	0	0	0	0	0	0	0		No response	
72	0	0	0	0	1	1	1	1	1	Continue participate	Getting benefit	
73	0	1	0	0	0	1	1	1	1	Continue participate	For better environment for the future generation	
74	1	1	0	1	1	1	0	0	0		No response	
75	0	1	0	1	1	0	1	1	1	Intensive participation	For better environment for the future generation	
76	0	0	0	0	0	0	0	0	0		No response	
77	1	0	0	0	0	0	0	0	0		No response	
78	0	0	0	0	0	0	0	0	0		No response	
79	1	0	0	1	1	1	1	0	0		No response	
80	1	1	0	1	1	1	1	1	1	Continue participate	Getting benefit	
81	0	0	0	0	0	0	0	0	0		No response	
82	0	0	1	1	0	0	0	0	0		No response	
83	1	1	0	1	0	1	1	1	1	Continue participate	Getting benefit	
84	1	1	1	1	1	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel	
85	1	1	1	1	1	1	1	1	1	Continue participate	Getting land for growing forest for wood and fuel	
86	0	1	0	0	1	1	1	1	1	Continue participate	For better environment for the future generation	
87	1	1	0	0	1	0	0	0	0		No response	
88	1	0	0	0	0	0	0	1	1	No longer participate	Can not share time	
89	0	0	0	0	0	0	0	0	0	1	Continue participate	Getting land for growing forest for wood and fuel
90	1	0	0	0	0	1	0	0	0		No response	
91	1	0	0	1	1	0	0	1	1		No response	
92	0	0	0	0	0	0	0	0	0		No response	
93	1	0	0	0	0	0	1	1	1	Continue participate	Getting benefit	
94	0	1	0	0	1	1	0	0	0		No response	
95	1	1	1	1	1	1	1	1	1	Intensive participation	Getting land for livelihood	
96	1	1	1	1	1	1	1	1	1	Intensive participation	For better environment for the future generation	
97	0	0	0	0	0	0	0	0	0		No response	
98	0	0	0	0	0	0	0	0	0		No response	
99	0	0	0	0	0	0	0	0	0		No response	
100	0	0	0	0	0	0	0	0	0		No response	
101	0	0	0	0	0	0	0	0	0		No response	
102	1	0	0	1	1	1	0	0	0		No response	
103	0	0	0	0	0	0	0	0	0		No response	
104	0	1	0	0	1	0	0	0	0		No response	
105	0	0	0	0	0	0	1	0	0		No response	
106	0	0	0	0	0	0	0	0	0		No response	
107	1	0	0	1	1	1	0	0	0		No response	
108	1	0	0	1	1	0	1	1	1	Intensive participation	For better environment for the future generation	
109	1	1	0	1	1	1	1	0	0		No response	
110	1	0	0	1	1	1	0	0	0		No response	
111	1	1	1	0	1	1	1	1	1	Intensive participation	Getting land for growing forest for wood and fuel	
112	0	0	0	0	0	0	0	0	0		No response	
113	0	0	0	0	0	0	0	0	0		No response	
114	0	0	0	0	0	1	0	0	0		No response	
115	0	0	0	0	0	0	0	0	0		No response	
Total	56	56	17	49	54	60	42	43				

Table 6.6 Village Leaders Selected by Household Heads

No. of HH	Leader1	Leader2	Leader3	No. of HH	Leader1	Leader2	Leader3
Thar Yar Kone				68	U Le Se		
1	U Le Se	U Ai Htee Kaw		69	U Le Se		
2	U Le Se			70	U Le Se	U Kyi Win	
3	U Htoo Se	U Le Se	U Htoo Pale	71	U Le Se		
4	U Le Se	U Htoo Se	U Yaw Li	72	U Le Se	U Ai Htee Kaw	
5	U Ai Htee Kaw	U Htoo Se		73	U Le Se		
6	U Le Se	U Htoo Se	U Johnson	74	U Le Se		
7	U Le Se			75	U Le Se		
8	U Le Se	U Yaw Li	U Kyaw Khin	76	U Le Se		
9	U Le Se			77	U Le Se		
10	U Le Se	U Ai Htee Kaw	U Saw Lwin	78	U Le Se	U Htoo Se	
11	U Le Se			79	U Le Se		
12	U Le Se			80	U Soe Khin	U Le Se	
13	U Le Se			81	U Le Se	U Johnson	U Nealson
14	U Le Se	U Ai Htee Kaw		82	U Le Se	U Ai Htee Kaw	
15	U Le Se	U Johnson	U Yaw Li				
16	U Le Se			Nyaung Ta Pin			
17	U Htoo Se	U Le Se		1	U Hla Myint		
18	U Le Se	U Htoo Se		2	U Hla Myint	U Chit Hlaing	
19	U Le Se	U Htoo Se	U Saw Lwin	3	U Hla Myint	U Hla Nyein	
20	U Htoo Se	U Saw Lwin		4	U Hla Nyein		
21	U Htoo Se	U Nealson		5	U Hla Myint		
22	U Le Se	U Htoo Se		6	U Hla Myint		
23	U Le Se	U Saw Lwin		7			
24	U Le Se	U Ai Htee Kaw		8	U Hla Myint	U Hla Nyein	
25	U Htoo Se			9	U Chit Hlaing	U Hla Myint	
26	U Le Se			10	U Hla Myint		
27	U Le Se			11	U Hla Myint		
28	U Le Se			12	U Hla Myint		
29	U Le Se	U Ai Htee Kaw	U Nawe Hla	13	U Hla Myint		
30	U Le Se	U Ai Htee Kaw		14	U Hla Myint	U Chit Hlaing	U Manh Tu
31	U Le Se	U Htoo Se		15	U Hla Myint		
32	U Le Se	U Htoo Se		16	U Hla Myint	U Hla Nyein	U Chit Hlaing
33	U Le Se	U Yaw Li	U Soe Khin	17	U Hla Than		
34	U Le Se	U Soe Khin		18	U Hla Myint		
35	U Ai Htee Kaw			19	U Hla Myint		
36	U Le Se	U Htoo Se	U Ai Htee Kaw	20	U Hla Myint		
37	U Le Se			21	U Hla Myint		
38	U Le Se	U Ai Htee Kaw		22	U Manh Win		
39	U Le Se	U Soe Khin		23	U Manh Win		
40	U Le Se			24	U Hla Myint	U Hla Nyein	
41	U Le Se			25	U Hla Myint	U Hla Nyein	U Pho Si
42	U Ai Htee Kaw	U Yaw Li		26	U Pho Kyawt	U Manh Ta Yoke	U Myint Soe
43	U Le Se			27	U Hla Myint		
44	U Le Se			28	U Hla Myint		
45	U Le Se	U Ai Htee Kaw		29	U Hla Myint		
46	U Le Se			30	U Hla Myint		
47	U Le Se			31	U Hla Myint		
48	U Le Se	U Ai Htee Kaw		32	U Hla Myint		
49	U Le Se			33	U Hla Myint		
50	U Le Se	U Ai Htee Kaw		34	U Hla Myint		
51	U Le Se			35	U Hla Myint		
52	U Le Se			36	U Hla Myint		
53	U Le Se			37	U Hla Myint		
54	U Le Se			38	U Hla Myint		
55	U Le Se	U Johnson	U Saw Lwin	39	U Hla Myint		
56	U Le Se			40	U Hla Myint		
57	U Le Se			41			
58	U Le Se	U Htoo Se	U Johnson	42	U Hla Myint		
59	U Le Se	U Htoo Se		43	U Hla Myint		
60	U Johnson	U Htoo Se	U Chit Maung	44	U Hla Myint		
61	U Le Se	U Htoo Se		45	U Hla Myint	U Manh Pi Oo	
62	U Le Se	U Johnson	U Htoo Pale	46			
63	U Le Se			47	U Hla Myint		
64	U Le Se			48	U Hla Myint		
65	U Le Se			49	U Hla Myint		
66	U Le Se	U Ai Htee Kaw		50	U Hla Myint		
67	U Le Se	U Ai Htee Kaw		51	U Hla Myint		

Table 6.6 Village Leaders Selected by Household Heads

No. of HH	Leader1	Leader2	Leader3	No. of HH	Leader1	Leader2	Leader3
52	U Hla Myint			84	U Pho Kyawt		
53	U Hla Myint			85	U Manh Ta Yoke	U Pho Kyawt	
54	U Hla Myint			86	U Pho Kyawt		
55	U Hla Myint			87	U Pho Kyawt	U Manh Ta Yoke	
56	U Hla Myint			88	U Pho Kyawt		
57	U Hla Myint			89	U Pho Kyawt	U Manh Ta Yoke	
58	U Hla Myint			90	U Pho Kyawt	U Manh Ta Yoke	
59	U Hla Myint			91	U Pho Kyawt	U Manh Ta Yoke	
60	U Hla Myint			92	U Pho Kyawt	U Manh Ta Yoke	
61	U Hla Myint			93	U Pho Kyawt	U Manh Ta Yoke	
62	U Hla Myint			94	U Pho Kyawt		
63	U Hla Myint			95	U Pho Kyawt	U Manh Ta Yoke	
64	U Hla Myint			96	U Pho Kyawt		
65	U Hla Myint			97	U Manh Ta Yoke		
66	U Hla Myint			98	U Hla Than		
67	U Hla Myint			99	U Hla Nyein		
68	U Hla Myint			100	U Hla Than		
69	U Hla Myint			101	U Hla Than		
70	U Hla Myint			102	U Hla Than		
71	U Hla Myint			103	U Hla Than		
72	U Hla Myint			104	U Soe Aung		
73	U Hla Myint	U Chit Hlaing		105	U Hla Than		
74	U Hla Myint			106	U Hla Than		
75	U Hla Myint	U Kyin Than	U Manh Tin Hla	107	U Hla Than		
76	U Hla Myint			108	U Hla Than		
77	U Pho Kyawt			109	U Hla Than		
78				110	U Hla Than		
79	U Pho Kyawt			111	U Hla Than		
80	U Pho Kyawt			112	U Hla Than		
81	U Pho Kyawt			113	U Hla Than		
82	U Pho Kyawt			114	U Hla Than		
83	U Pho Kyawt	U Manh Ta Yoke		115	U Hla Than		