

TABLE K-4-10 BLOCK-WISE CROPPED ACREAGE BY TYPICAL FARM

	<u>Prome</u>	<u>Nattalin</u>	<u>Letpadan</u>	<u>Rangoon</u>	<u>Padaung</u>	<u>Myanaung</u>	<u>Henzada</u>
1. Average Farm Size (ac)	4.6	4.6	5.4	7.0	3.6	3.7	4.8
2. Present Cropped Acreage							
- Cropping Intensity (%)	104	107	111	115	102	108	109
- Gross Area Sown (ac)	4.8	4.9	6.0	8.1	3.7	4.0	5.2
Paddy (HYV)	0.1	0.2	0.8	1.1	0.0	0.3	0.4
Paddy (Ordinary)	4.1	3.6	4.6	6.7	3.2	3.2	3.5
Jute (Pre-monsoon)	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Jute (Monsoon)	0.0	0.2	0.0	0.0	0.1	0.0	0.0
Groundnuts (Rain)	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Groundnuts (Winter)	0.2	0.1	0.3	0.1	0.3	0.3	0.3
Sesame (Early)	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Sesame (Late)	0.0	0.0	0.1	0.1	0.0	0.0	0.0
Pulses	0.1	0.7	0.2	0.1	0.1	0.2	0.8
3. Proposed Cropped Acreage							
- Cropping Intensity (%)	168	168	168	168	168	168	109
- Gross Area Sown (ac)	7.7	7.7	9.1	11.8	6.0	6.2	5.2
Paddy (HYV)-Wet	4.5	4.5	5.5	7.1	3.5	3.7	2.3 ^{1/}
Paddy (HYV)-Dry	0.4	0.4	0.5	0.6	0.3	0.3	1.6 ^{1/}
Groundnuts (Winter)	0.9	0.9	1.0	1.3	0.7	0.7	0.3
Sesame (Late)	0.9	0.9	1.0	1.3	0.7	0.7	-
Pulses	1.0	1.0	1.1	1.5	0.8	0.8	0.8
Jute (Pre-monsoon)	-	-	-	-	-	-	0.2

Note: 1/ Ordinary Variety

TABLE K-4-11 INCREMENTAL NET FARM INCOME

	Prome	Nattalin	Letpadan	Rangoon	Padang	Myanaung	Henzada
1. Average Farm Size (ac)	4.6	4.6	5.4	7.0	3.6	3.7	4.8
2. Net Farm Income (Present)							
- Paddy (HYV)	29	59	236	324	0	88	118
- Paddy (Ordinary)	554	487	622	905	433	433	473
- Jute (Pre-monsoon)	0	0	0	0	0	0	55
- Jute (Monsoon)	0	38	0	0	19	0	0
- Groundnuts (Rain)	36	0	0	0	0	0	0
- Groundnuts (Winter)	137	69	206	69	206	206	206
- Sesame (Early)	76	38	0	0	0	0	0
- Sesame (Late)	0	0	41	41	0	0	0
- Pulses	3	22	6	3	3	6	25
- Sub-total	835	713	1,111	1,343	661	733	877
3. Net Farm Income (Proposed)							
- Paddy (HYV)-wet	1,657	1,657	2,025	2,614	1,289	1,362	675
- Paddy (HYV)-dry	167	167	209	251	126	126	0
- Paddy (Ordinary)	0	0	0	0	0	0	218
- Groundnuts (Winter)	1,949	1,949	2,166	2,816	1,516	1,516	256
- Sesame (Late)	1,474	1,474	1,637	2,128	1,146	1,146	-
- Pulses	278	278	306	417	223	223	41
- Jute (Pre-monsoon)	0	0	0	0	0	0	76
- Sub-total	5,525	5,525	6,343	8,226	4,300	4,373	1,266
4. Incremental Net Farm Income	4,690	4,812	5,232	6,883	3,639	3,640	389

APPENDICES



APPENDIX K-1. STATISTICAL ANALYSIS TABLE

Crop: Paddy		Production	Yield	Sown	Urea	Price	Irrigation	No. of	Population	Draught	Time
Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	Trend
	('000 t.)	(Kg/ac)	('000 ac)	(t. tons)	(Ks/ton)	('000 ac)	Village Manager	('000)	(Animal)		
1970/71	8,033	664	12,294	16,590	179	2,073	3,882	27,034	4,150	1	
71/72	8,046	665	12,300	29,782	179	2,199	3,882	27,637	4,201	2	
72/73	7,241	612	12,014	43,965	185	2,198	4,360	28,262	4,230	3	
73/74	8,466	672	12,575	47,202	213	2,400	5,592	28,886	4,206	4	
74/75	8,448	671	12,793	60,067	292	2,412	5,592	29,521	4,256	5	
75/76	9,062	716	12,858	62,468	438	2,432	5,592	30,170	4,299	6	
76/77	9,172	743	12,547	73,489	438	2,318	5,911	30,834	4,356	7	
77/78	9,489	757	12,736	87,292	438	2,384	5,932	31,512	4,388	8	
Correlation Coefficient Matrix											
(1)	1.000	0.978	0.835	0.776	0.892	0.657	0.797	0.850	0.792	0.846	
(2)	0.978	1.000	0.710	0.756	0.892	0.515	0.712	0.831	0.822	0.825	
(3)	0.835	0.710	1.000	0.653	0.734	0.843	0.794	0.705	0.556	0.708	
(4)	0.776	0.756	0.653	1.000	0.880	0.771	0.900	0.989	0.963	0.990	
(5)	0.892	0.892	0.734	0.880	1.000	0.656	0.811	0.932	0.920	0.930	
(6)	0.657	0.515	0.843	0.771	0.656	1.000	0.892	0.769	0.614	0.778	
(7)	0.797	0.712	0.794	0.900	0.811	0.892	1.000	0.915	0.790	0.920	
(8)	0.850	0.831	0.705	0.989	0.932	0.769	0.915	1.000	0.968	0.999	
(9)	0.792	0.822	0.556	0.963	0.920	0.614	0.790	0.968	1.000	0.965	
(10)	0.846	0.825	0.708	0.990	0.930	0.778	0.920	0.999	0.965	1.000	

STATISTICAL ANALYSIS TABLE

Crop: Maize		Production (^{'000} l.t.)	Yield (Kg/ac)	Sown Acreage (^{'000} ac)	Urea Input (^{'000} tons)	Price (Ks/100 BKT)	Irrigation Area (^{'000} ac)	No. of Village Manager	Population (^{'000})	Draught Animal (^{'000})	Time Trend
Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1970/71	47	273	176	232	400	2,073	3,882	27,034	4,150	1	
71/72	57	232	250	606	400	2,199	3,882	27,637	4,201	2	
72/73	55	238	235	739	600	2,198	4,360	28,262	4,230	3	
73/74	61	283	219	1,220	800	2,400	5,592	28,886	4,206	4	
74/75	64	302	215	1,770	1,000	2,412	5,592	29,521	4,256	5	
75/76	60	300	203	1,916	1,400	2,432	5,592	30,170	4,299	6	
76/77	57	291	199	912	2,000	2,318	5,911	30,834	4,356	7	
77/78	74	362	207	505	2,000	2,384	5,932	31,512	4,388	8	
Correlation Coefficient Matrix											
(1)	1.000	0.756	0.188	0.276	0.636	0.767	0.717	0.777	0.721	0.778	
(2)	0.756	1.000	-0.499	0.175	0.783	0.620	0.775	0.808	0.727	0.803	
(3)	0.188	-0.499	1.000	0.063	-0.326	0.056	-0.237	-0.185	-0.124	-0.178	
(4)	0.276	0.175	0.063	1.000	0.197	0.774	0.547	0.349	0.188	0.364	
(5)	0.636	0.783	-0.326	0.197	1.000	0.617	0.851	0.969	0.967	0.965	
(6)	0.767	0.620	0.056	0.774	0.617	1.000	0.892	0.769	0.614	0.778	
(7)	0.717	0.775	-0.237	0.547	0.851	0.892	1.000	0.915	0.790	0.920	
(8)	0.777	0.808	-0.185	0.349	0.969	0.769	0.915	1.000	0.968	0.999	
(9)	0.721	0.727	-0.124	0.188	0.967	0.614	0.790	0.968	1.000	0.965	
(10)	0.778	0.803	-0.178	0.364	0.965	0.778	0.920	0.999	0.965	1.000	

STATISTICAL ANALYSIS TABLE

Crop: Groundnuts		Production (^{'000} t.)	Yield (Kg/ac)	Sown Acreage (^{'000} ac)	Urea Input (² .tons)	Price (Ks/100 BKT)	Irrigation Area (^{'000} ac)	No. of Village Manager	Population (^{'000})	Draught Animal (^{'000})	Time Trend
Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1970/71	521	305	1,735	1,435	1,164	2,073	3,882	27,034	4,150	1	
71/72	478	290	1,674	2,618	1,747	2,199	3,882	27,637	4,201	2	
72/73	377	245	1,563	2,119	2,622	2,198	4,360	28,262	4,230	3	
73/74	405	252	1,638	2,474	2,964	2,400	5,592	28,886	4,206	4	
74/75	459	284	1,666	3,448	4,256	2,412	5,592	29,521	4,256	5	
75/76	404	242	1,696	4,096	6,238	2,432	5,592	30,170	4,299	6	
76/77	416	281	1,507	2,231	5,400	2,318	5,911	30,834	4,356	7	
77/78	457	313	1,481	2,056	5,400	2,384	5,932	31,512	4,388	8	

Correlation Coefficient Matrix	
(1)	1.000
(2)	0.837
(3)	0.418
(4)	-0.347
(5)	-0.449
(6)	-0.483
(7)	-0.436
(8)	-0.372
(9)	-0.332
(10)	-0.383
(1)	0.837
(2)	1.000
(3)	-0.142
(4)	-0.507
(5)	-0.169
(6)	-0.307
(7)	-0.113
(8)	-0.523
(9)	-0.695
(10)	-0.372
(1)	0.418
(2)	-0.142
(3)	1.000
(4)	0.297
(5)	-0.462
(6)	-0.266
(7)	0.892
(8)	0.874
(9)	0.933
(10)	0.968
(1)	-0.347
(2)	-0.507
(3)	0.297
(4)	1.000
(5)	0.566
(6)	0.700
(7)	0.807
(8)	0.874
(9)	0.933
(10)	0.968
(1)	-0.449
(2)	-0.169
(3)	-0.462
(4)	0.566
(5)	1.000
(6)	0.807
(7)	0.874
(8)	0.933
(9)	0.884
(10)	0.937
(1)	-0.483
(2)	-0.307
(3)	-0.266
(4)	0.700
(5)	0.807
(6)	1.000
(7)	0.892
(8)	0.874
(9)	0.933
(10)	0.968
(1)	-0.436
(2)	-0.113
(3)	-0.523
(4)	0.396
(5)	0.874
(6)	0.892
(7)	1.000
(8)	0.915
(9)	0.790
(10)	0.965
(1)	-0.372
(2)	0.051
(3)	-0.695
(4)	0.309
(5)	0.205
(6)	0.884
(7)	0.614
(8)	0.778
(9)	0.965
(10)	1.000

STATISTICAL ANALYSIS TABLE

Crop: Sesamum

Year	Production (^{'000} % t.)	Yield (Kg/ac)	Sown Acreage (^{'000} ac)	Urea Input (^{t.} tons)	Price (Rs/100 BKT)	Irrigation Area (^{'000} ac)	No. of Village Manager	Population (^{'000})	Draught Animal (^{'000})	Time Trend
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1970/71	130	53	2,510	355	6,051	2,073	3,882	27,034	4,150	1
71/72	111	49	2,292	0	6,144	2,199	3,882	27,637	4,201	2
72/73	69	31	2,256	25	7,328	2,198	4,360	28,262	4,230	3
73/74	152	58	2,660	50	9,113	2,400	5,592	28,886	4,206	4
74/75	94	37	2,609	729	12,756	2,412	5,592	29,521	4,256	5
75/76	132	54	2,464	901	16,355	2,432	5,592	30,170	4,299	6
76/77	91	35	2,630	575	17,000	2,318	5,911	30,834	4,356	7
77/78	109	41	2,696	543	17,000	2,384	5,932	31,512	4,388	8

Correlation Coefficient Matrix										
(1)	1.000	0.967	0.367	0.026	-0.073	0.182	0.073	-0.127	-0.286	-0.127
(2)	0.967	1.000	0.127	-0.070	-0.236	0.031	-0.140	-0.308	-0.434	-0.308
(3)	0.367	0.127	1.000	0.463	0.605	0.561	0.771	0.525	0.477	0.622
(4)	0.026	-0.070	0.463	1.000	0.794	0.545	0.609	0.632	0.568	0.633
(5)	-0.073	-0.236	0.605	0.794	1.000	0.740	0.887	0.965	0.927	0.965
(6)	0.182	0.031	0.561	0.545	0.740	1.000	0.892	0.769	0.614	0.778
(7)	0.073	-0.140	0.771	0.609	0.887	0.892	1.000	0.915	0.790	0.920
(8)	-0.127	-0.308	0.625	0.632	0.965	0.769	0.915	1.000	0.968	0.999
(9)	-0.286	-0.434	0.477	0.568	0.927	0.614	0.790	0.968	1.000	0.965
(10)	-0.127	-0.308	0.622	0.633	0.965	0.778	0.920	0.999	0.965	1.000

STATISTICAL ANALYSIS TABLE

Crop: Pulses		Production	Yield	Sown	Urea	Price	Irrigation	No. of	Population	Draught	Time
Year	(¹ 000 k.t.)	(Kg/ac)	(¹ 000 ac)	Input	(Ks/100 BKT)	Area	Village	(¹ 000)	Animal	Trend	
	(1)	(2)	(3)	(4)	(5)	(6)	Manager	(8)	(9)	(10)	
1970/71	285	184	1,576	385	1,200	2,073	3,882	27,034	4,150	1	
71/72	313	171	1,855	1,963	1,300	2,199	3,882	27,637	4,201	2	
72/73	265	145	1,861	745	1,450	2,198	4,360	28,262	4,230	3	
73/74	264	159	1,687	1,782	1,550	2,400	5,592	28,886	4,206	4	
74/75	301	171	1,785	1,008	2,000	2,412	5,592	29,521	4,256	5	
75/76	256	157	1,656	1,430	2,400	2,432	5,592	30,170	4,299	6	
76/77	314	191	1,666	528	5,000	2,318	5,911	30,834	4,356	7	
77/78	347	202	1,749	230	5,000	2,384	5,932	31,512	4,388	8	

Correlation Coefficient Matrix	
(1)	1.000
(2)	0.859
(3)	0.188
(4)	0.859
(5)	0.188
(6)	0.859
(7)	0.188
(8)	0.859
(9)	0.188
(10)	0.859

Note: 1/ Price of Matpe

STATISTICAL ANALYSIS TABLE

Crop: Jute

Year	Production ('000 k.t.)	Yield (Kg/ac)	Sown Acreage ('000 ac)	Urea Input (k. tons)	Price (Ks/100Viss)	Irrigation Area ('000 ac)	No. of Village Manager	Population ('000)	Draught Animal ('000)	Time Trend
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1970/71	28	243	115	6,119	100	2,073	3,882	27,034	4,150	1
71/72	65	292	226	6,679	100	2,199	3,882	27,637	4,201	2
72/73	88	309	288	11,453	125	2,198	4,360	28,262	4,230	3
73/74	78	271	291	10,690	125	2,400	5,592	28,886	4,206	4
74/75	39	240	167	5,300	175	2,412	5,592	29,521	4,256	5
75/76	37	257	148	5,627	220	2,432	5,592	30,170	4,299	6
76/77	27	199	136	6,970	265	2,318	5,911	30,834	4,356	7
77/78	55	318	176	9,030	265	2,384	5,932	31,512	4,388	8

Correlation Coefficient Matrix	
(1)	1.000
(2)	0.758
(3)	0.598
(4)	0.844
(5)	0.973
(6)	0.598
(7)	1.000
(8)	0.588
(9)	0.818
(10)	1.000
(1)	0.758
(2)	0.598
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.844
(3)	0.973
(4)	0.598
(5)	0.818
(6)	1.000
(7)	0.588
(8)	0.844
(9)	0.973
(10)	0.598
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.598
(3)	0.818
(4)	1.000
(5)	0.588
(6)	0.844
(7)	0.973
(8)	0.598
(9)	0.818
(10)	1.000
(1)	0.588
(2)	0.844
(3)	0.973
(4)	0.598
(5)	0.818
(6)	1.000
(7)	0.588
(8)	0.844
(9)	0.973
(10)	0.598
(1)	0.818
(2)	1.000
(3)	0.598
(4)	0.844
(5)	0.973
(6)	0.588
(7)	0.818
(8)	1.000
(9)	0.598
(10)	0.844
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844
(10)	0.973
(1)	0.598
(2)	0.818
(3)	1.000
(4)	0.588
(5)	0.844
(6)	0.973
(7)	0.598
(8)	0.818
(9)	1.000
(10)	0.588
(1)	0.844
(2)	0.973
(3)	0.598
(4)	0.818
(5)	1.000
(6)	0.588
(7)	0.844
(8)	0.973
(9)	0.598
(10)	0.818
(1)	0.973
(2)	0.588
(3)	0.844
(4)	0.973
(5)	0.598
(6)	0.818
(7)	1.000
(8)	0.588
(9)	0.844

STATISTICAL ANALYSIS TABLE

Crop: Cotton		Production	Yield	Sown	Urea	Price	Irrigation	No. of	Population	Draught	Time
Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	Trend
	('000q.t.)	(Kg/ac)	('000ac)	(q.ton)	(Ks/100 Viss)	('000 ac)	Village Manager	('000)	Animal		
1970/71	42	91.4	467	462	155	2,073	3,882	27,034	4,150	1	
71/72	42	77.0	554	-	180	2,199	3,882	27,637	4,201	2	
72/73	43	82.1	532	5,161	180	2,198	4,360	28,262	4,230	3	
73/74	37	71.3	527	1,842	350	2,400	5,592	28,886	4,206	4	
74/75	42	78.7	542	3,163	350	2,412	5,592	29,521	4,256	5	
75/76	37	73.1	514	3,044	550	2,432	5,592	30,170	4,299	6	
76/77	31	78.4	402	1,683	700	2,318	5,911	30,834	4,356	7	
77/78	41	102.9	405	2,956	700	2,384	5,932	31,512	4,388	8	
Correlation Coefficient Matrix											
(1)	1.000	0.379	0.486	0.154	-0.673	-0.400	-0.606	-0.530	-0.480	-0.533	
(2)	0.379	1.000	-0.621	0.048	0.199	-0.267	-0.034	0.205	0.307	0.189	
(3)	0.486	-0.621	1.000	0.085	-0.724	-0.029	-0.439	-0.603	-0.666	-0.591	
(4)	0.154	0.048	0.085	1.000	0.163	0.364	0.341	0.361	0.346	0.367	
(5)	-0.673	0.199	-0.724	0.163	1.000	0.672	0.874	0.964	0.941	0.962	
(6)	-0.400	-0.267	-0.029	0.364	0.672	1.000	0.892	0.769	0.614	0.778	
(7)	-0.606	-0.034	-0.439	0.341	0.874	0.892	1.000	0.915	0.790	0.920	
(8)	-0.530	0.205	-0.603	0.361	0.964	0.769	0.915	1.000	0.968	0.999	
(9)	-0.480	0.307	-0.666	0.346	0.941	0.614	0.790	0.968	1.000	0.965	
(10)	-0.533	0.189	-0.591	0.367	0.962	0.778	0.920	0.999	0.965	1.000	

Appendix K-2 PRICE ANALYSIS

ECONOMIC PRICE OF RICE/PADDY

1. 1990 Projected Price (1979 Constant US\$) ^{1/} 5% broken, f.o.b., Bangkok	US\$ 453/m.t.
2. 1990 Projected Price, 35% broken, f.o.b., Rangoon (Quality differential: less 30%)	US\$ 317/m.t. Ks4,121/m.t. ^{2/}
3. Average Cost of Handling and Transportation by BRC/RTC/IWTC (M/P Area - Rangoon)	Ks 70/m.t.
4. Ex-mill Price of Rice	Ks4,051/m.t.
5. Economic Milling Charge Paddy Price at Mill (Processing Ratio: 65%)	Ks 157/m.t. Ks2,531/m.t.
6. Cost of Handling and Transportation by RTC/IWTC from Depots to Mills	Ks 25/m.t.
7. Ex-Depot Price of Paddy	Ks2,506/m.t.
8. Cost of Handling and Transportation by Sampan/Bullock-Cart from Farm Gate to Depot	Ks. 50/m.t.
9. Farm Gate Price of Paddy	Ks2,456/m.t. Ks 51/BKT

Note: ^{1/} IBRD Commodity Price Forecast, June 1979

^{2/} Estimated using the shadow exchange rate
US\$1.00 = Ks13.00

ECONOMIC PRICE OF MATPE

1. 1990 Projected Price (1979 Constant US\$) ^{1/} c.i.f., Europe	US\$ 443/m.t.
2. Cost of Freight and Insurance	US\$ 75/m.t.
3. 1990 Projected Price, f.o.b., Rangoon (Quality differential: less 20%)	US\$ 294/m.t. Ks3,822/m.t.
4. Average Cost of Handling and Transportation by BRC/RTC/IWTC (Rangoon - M/P Area)	Ks 400/m.t.
5. Average Cost of Handling and Transportation from Farm Gate to Depot	Ks 100/m.t.
6. Farm Gate Price of Matpe	Ks3,322/m.t. ks 108/BKT

Note: ^{1/} Estimated from the projected soybeans price as follows:

(US\$369 x 1.2 = US\$443)

IBRD Commodity Price Forecast, June 1978

^{2/} Estimated using the shadow exchange rate
US\$1.00 = Ks13.00

ECONOMIC PRICE OF JUTE

1. 1990 Projected Price (1979 Constant US\$) ^{1/} f.o.b., Chittagong	US\$ 392/m.t.
2. 1990 Projected Price, f.o.b., Rangoon (Quality differential: less 15%)	US\$ 333/m.t. Ks4,329/m.t. ^{2/}
3. Average Cost of Handling and Transportation by BRC/RTC/IWTC (Rangoon - M/P Area)	Ks 300/m.t.
4. Price at Buying Depot	Ks4,029/m.t.
5. Average Cost of Handling, Bailing and Transportation Cost from Farm Gate to Buying Depot	Ks 100/m.t.
6. Farm Gate Price of Jute	Ks3,929/m.t. Ks 6.4/viss

Note: ^{1/} IBRD Commodity Price Forecast, June 1978

^{2/} Estimated using the shadow exchange rate
US\$1.00 = Ks13.00

ECONOMIC PRICE OF UREA

1. 1990 Projected Price (1979 Constant US\$) ^{1/} f.o.b., N.W. Europe, bagged	US\$ 216/m.t.
2. 1990 Projected Price, f.o.b., Rangoon	US\$ 216/m.t. Ks2,808/m.t. ^{2/}
3. Cost of Handling and Transportation by BRC/RTC (Factory - Rangoon)	Ks 500/m.t.
4. Ex-factory Price	Ks2,308/m.t.
5. Average Cost of Handling and Transportation from Factory to M/P Area (AC TSP Godown)	Ks 100/m.t.
6. Price of Urea at AC TSP Godown	Ks2,408/m.t. Ks 61/56lbs
7. Cost of Transportation from AC TSP Godown to Farm Gate	Ks 3/56lbs
8. Farm Gate Price of Urea	Ks 64/56lbs

Note: ^{1/} IBRD Commodity Price Forecast, June 1978

^{2/} Estimated using the shadow exchange rate
US\$1.00 = Ks13.00

ECONOMIC PRICE OF T.S.P.^{1/}

1. 1990 Projected Price (1979 Constant US\$) ^{2/} f.o.b., Florida, bulk	US\$ 182/m.t.
2. Cost of Freight and Insurance	US\$ 50/m.t.
3. c.i.f., Price at Rangoon	US\$ 232/m.t. ^{3/} Ks3,016/m.t. ^{3/}
4. Average Cost of Handling and Transportation by BRC/IWTC/BRC (Rangoon - AC TSP Godown in M/P Area)	Ks 300/m.t.
5. Price of T.S.P. at AC TSP Godown	Ks3,316/m.t. Ks 168/112lbs
6. Cost of Transportation from AC TSP Godown to Farm Gate	Ks 3/112lbs
7. Farm Gate Price of T.S.P.	Ks 171/112lbs

Note: 1/ Triple Superphosphate

2/ IBRD Commodity Price Forecast, June 1978

3/ Estimated using the shadow exchange rate
US\$1.00 = Ks13.00

ECONOMIC PRICE OF POTASH

1. 1990 Projected Price (1979 Constant US\$) ^{1/} f.o.b., Vancouver, bulk	US\$ 91/m.t.
2. Cost of Freight and Insurance	US\$ 30/m.t.
3. c.i.f. Price at Rangoon	US\$ 121/m.t. Ks1,573/m.t. ^{2/}
4. Average Cost of Handling and Transportation by BRC/IWTC/RTC (Rangoon-AC TSP Godown in M/P Area)	Ks 250/m.t.
5. Price of Potash at AC TSP Godown	Ks1,823/m.t. Ks 93/112lbs
6. Cost of Transportation from AC TSP Godown to Farm Gate	Ks 3/112lbs
7. Farm Gate Price of Potash	Ks 96/112lbs

Note: ^{1/} IBRD Commodity Price Forecast, June 1978

^{2/} Estimated using the shadow exchange rate
US\$1.00 = Ks13.00

Appendix K-3 ECONOMIC NET PRODUCTION VALUE

Crop: Paddy

	(Unit: Kyat per acre)					
	Ordinary Variety		HYV (Wet)			HYV (Dry)
	<u>P</u>	<u>W</u>	<u>P</u>	<u>W</u>	<u>W</u>	<u>W</u>
Yield (BKT)	38.2	40.0	63.6	75.0	100.0	110.0
Unit Price (Ks/BKT)	51	51	51	51	51	51
<u>G.P.V. (1)</u>	<u>1,948.2</u>	<u>2,040.0</u>	<u>3,243.6</u>	<u>3,825.0</u>	<u>5,100.0</u>	<u>5,610.0</u>
<u>Production Cost</u>						
- Materials						
Seed	76.5	76.5	76.5	76.5	51.0	51.0
Urea	-	8.0	96.0	128.0	153.1	166.9
T.S.P.	-	-	42.8	85.5	102.3	119.1
M. Potash	-	-	-	12.0	18.9	28.3
Pesticides	-	-	-	87.6	219.0	219.0
Herbicides	-	-	-	-	41.4	41.4
Miscellaneous	15.3	16.9	43.1	77.9	117.1	125.1
<u>Sub-total</u>	<u>91.8</u>	<u>101.4</u>	<u>258.4</u>	<u>467.5</u>	<u>702.8</u>	<u>750.8</u>
- Farm Labor						
Family	133.6	143.1	159.0	168.5	250.2	250.2
Hired	89.0	95.4	106.0	112.4	62.5	62.5
<u>Sub-total</u>	<u>222.6</u>	<u>238.5</u>	<u>265.0</u>	<u>280.9</u>	<u>312.7</u>	<u>312.7</u>
- Draft Cattle						
Family	84.0	90.0	90.0	96.0	70.0	35.0
Hired	56.0	60.0	60.0	64.0	-	35.0
<u>Sub-total</u>	<u>140.0</u>	<u>150.0</u>	<u>150.0</u>	<u>160.0</u>	<u>70.0</u>	<u>70.0</u>
- Machinery	-	-	-	-	176.0	153.0
<u>- Total (2)</u>	<u>454.4</u>	<u>489.9</u>	<u>673.4</u>	<u>908.4</u>	<u>1,261.5</u>	<u>1,286.5</u>
<u>N.P.V. (1)-(2)</u>	<u>1,493.8</u>	<u>1,550.1</u>	<u>2,570.2</u>	<u>2,916.6</u>	<u>3,838.5</u>	<u>4,323.5</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation
See Appendix K-4

ECONOMIC NET PRODUCTION VALUE

Crop: Groundnuts

(Unit: Kyat per acre)

	Winter			Rain	
	<u>P</u>	<u>W</u>	<u>W</u>	<u>P</u>	<u>W</u>
Yield (BKT)	30.4	35.0	60.0	22.2	27.5
Unit Price (Ks/BKT)	47	47	47	47	47
G.P.V	<u>1,428.8</u>	<u>1,645.0</u>	<u>2,820.0</u>	<u>1,043.4</u>	<u>1,292.5</u>
<u>Production Cost</u>					
- Materials					
Seed	282.0	282.0	188.0	282.0	282.0
Urea	5.7	32.0	64.0	5.7	32.0
T.S.P.	7.6	42.8	85.5	7.6	42.8
M. Potash	-	-	12.0	-	-
Pesticides	-	-	87.6	-	-
Herbicides	-	-	-	-	-
Miscellaneous	59.1	71.4	87.4	59.1	71.4
<u>Sub-total</u>	<u>354.4</u>	<u>428.2</u>	<u>524.5</u>	<u>354.4</u>	<u>428.2</u>
- Farm Labor					
Family	321.2	353.0	538.5	257.6	353.0
Hired	214.1	235.3	134.6	171.7	235.3
<u>Sub-total</u>	<u>535.3</u>	<u>588.3</u>	<u>673.1</u>	<u>429.3</u>	<u>588.3</u>
- Draft Cattle					
Family	132.0	132.0	80.0	132.0	132.0
Hired	88.0	88.0	-	88.0	88.0
<u>Sub-total</u>	<u>220.0</u>	<u>220.0</u>	<u>80.0</u>	<u>220.0</u>	<u>220.0</u>
- Machinery	-	-	130.0	-	-
<u>- Total</u>	<u>1,109.7</u>	<u>1,236.5</u>	<u>1,407.6</u>	<u>1,003.7</u>	<u>1,236.5</u>
<u>N.P.V.</u>	<u>319.1</u>	<u>408.5</u>	<u>1,412.4</u>	<u>39.7</u>	<u>56.0</u>

Note: P-Present, W-Without Irrigation, W-With Irrigation

See Appendix K-4

ECONOMIC NET PRODUCTION VALUE

Crop: Sesame

(Unit: Kyat per acre)

	Late			Early	
	P	\bar{W}	W	P	\bar{W}
Yield (BKT)	4.0	5.0	12.5	3.8	4.8
Unit Price (Ks/BKT)	158.5	158.5	158.5	158.5	158.5
<u>G.P.V.</u>	634.0	792.5	1,981.3	602.3	760.8
<u>Production Cost</u>					
- Materials					
Seed	29.4	29.4	20.5	29.4	29.4
Urea	-	16.6	16.6	-	16.6
T.S.P.	-	42.8	85.5	-	42.8
M. Potash	-	-	12.0	-	-
Pesticides	-	-	87.6	-	-
Herbicides	-	-	-	-	-
Miscellaneous	5.9	17.8	44.4	5.9	17.8
<u>Sub-total</u>	<u>35.3</u>	<u>108.6</u>	<u>266.6</u>	<u>35.3</u>	<u>108.6</u>
- Farm Labor					
Family	133.6	152.6	229.0	133.6	152.6
Hired	89.0	101.8	57.2	89.0	101.8
<u>Sub-total</u>	<u>222.6</u>	<u>254.4</u>	<u>286.2</u>	<u>222.6</u>	<u>254.4</u>
- Draft Cattle					
Family	78.0	78.0	50.0	78.0	78.0
Hired	52.0	52.0	-	52.0	52.0
<u>Sub-total</u>	<u>130.0</u>	<u>130.0</u>	<u>50.0</u>	<u>130.0</u>	<u>130.0</u>
- Machinery	-	-	130.0	-	-
- <u>Total</u>	<u>387.9</u>	<u>493.0</u>	<u>732.8</u>	<u>387.9</u>	<u>493.0</u>
<u>N.P.V.</u>	<u>246.1</u>	<u>299.5</u>	<u>1,248.5</u>	<u>214.4</u>	<u>267.8</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation

See Appendix K-4

ECONOMIC NET PRODUCTION VALUE

Crop: Matpe

(Unit: Kyat per acre)

	<u>Present</u>	<u>Without Irrigation</u>	<u>With Irrigation</u>
Yield (BKT)	5.1	6.3	12.4
Unit Price (Ks/BKT)	108	108	108
<u>G.P.V.</u>	<u>550.8</u>	<u>680.4</u>	<u>1,339.2</u>
<u>Production Cost</u>			
- Materials			
Seed	12.5	12.5	12.5
Urea	-	16.0	32.0
T.S.P.	-	42.8	85.5
M. Potash	-	-	12.0
Pesticides	-	-	87.6
Herbicides	-	-	-
Miscellaneous	2.5	14.3	45.9
<u>Sub-total</u>	<u>15.0</u>	<u>85.6</u>	<u>275.5</u>
- Farm Labor			
Family	139.9	159.0	250.2
Hired	93.3	106.0	62.5
<u>Sub-total</u>	<u>233.2</u>	<u>265.0</u>	<u>312.7</u>
- Draft Cattle			
Family	96.0	96.0	90.0
Hired	64.0	64.0	-
<u>Sub-total</u>	<u>160.0</u>	<u>160.0</u>	<u>90.0</u>
- Machinery	-	-	130.0
- <u>Total</u>	<u>408.2</u>	<u>510.6</u>	<u>718.2</u>
<u>N.P.V.</u>	<u>142.6</u>	<u>169.8</u>	<u>621.0</u>

Note: P-Present, W-Without Irrigation, W-With Irrigation
See Appendix K-4

ECONOMIC NET PRODUCTION VALUE

Crop: Jute

(Unit: Kyat per acre)

	Pre-Monsoon			Monsoon	
	P	\bar{W}	W	P	\bar{W}
Yield (BKT)	194.1	240	400.0	165.9	210.0
Unit Price (Ks/Biss)	6.4	6.4	6.4	6.4	6.4
<u>G.P.V.</u>	<u>1,242.2</u>	<u>1,536.0</u>	<u>2,560.0</u>	<u>1,061.8</u>	<u>1,334.0</u>
<u>Production Cost</u>					
- Materials					
Seed	26.7	26.7	17.8	26.7	26.7
Urea	64.0	128.0	192.0	64.0	96.0
T.S.P.	24.4	55.0	85.5	24.4	36.6
M. Potash	-	-	-	-	-
Pesticides	-	-	87.6	-	-
Herbicides	-	-	-	-	-
Miscellaneous	23.0	41.9	76.6	23.0	31.9
<u>Sub-total</u>	<u>138.1</u>	<u>251.6</u>	<u>459.5</u>	<u>138.1</u>	<u>191.2</u>
- Farm Labor					
Family	222.6	235.3	368.9	222.6	235.3
Hired	148.4	156.9	92.2	148.4	156.9
<u>Sub-total</u>	<u>371.0</u>	<u>392.2</u>	<u>461.1</u>	<u>371.0</u>	<u>392.2</u>
- Draft Cattle					
Family	66.0	66.0	60.0	66.0	66.0
Hired	44.0	44.0	-	44.0	44.0
<u>Sub-total</u>	<u>110.0</u>	<u>110.0</u>	<u>60.0</u>	<u>110.0</u>	<u>110.0</u>
- Machinery	30.0	30.0	130.0	30.0	30.0
- <u>Total</u>	<u>649.1</u>	<u>783.8</u>	<u>1,110.6</u>	<u>649.1</u>	<u>723.4</u>
<u>N.P.V.</u>	<u>593.1</u>	<u>752.2</u>	<u>1,449.4</u>	<u>412.7</u>	<u>620.6</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation

See Appendix K-4

Appendix K-4 INPUT REQUIREMENT

PRESENT INPUT REQUIREMENT

Item	Unit	(Unit: per acre)									
		Paddy		Jute		Groundnuts		Sesame		Matpe	
		Ordinary	HVV(Wet)	Pre-monsoon	Monsoon	Rain	Winter	Early	Late		
Yield	lbs	1,758	2,926	696	625	553	758	205	214	366	
<u>Input</u>											
- Seed	lbs	69	69	15	15	150	150	10	10	18	
- Fertilizer											
Urea	lbs	-	84	56	56	5	5	-	-	-	
TSP	lbs	-	28	16	16	5	5	-	-	-	
M. Potash	lbs	-	-	-	-	-	-	-	-	-	
- Pesticides	gal.	-	-	-	-	-	-	-	-	-	
- Herbicides	gal.	-	-	-	-	-	-	-	-	-	
- Labor											
Family	day	25.2	30.0	42.0	42.0	48.6	60.6	25.2	25.2	26.4	
Hired	day	16.8	20.0	28.0	28.0	32.4	40.4	16.8	16.8	17.6	
Total	day	42.0	50.0	70.0	70.0	81.0	101.0	42.0	42.0	44.0	
- Animal											
Family	day	8.4	9.0	6.6	6.6	13.2	13.2	7.8	7.8	9.6	
Hired	day	5.6	6.0	4.4	4.4	8.8	8.8	5.2	5.2	6.4	
Total	day	14.0	15.0	11.0	11.0	22.0	22.0	13.0	13.0	16.0	
- Machinery	hour	-	-	L.S.	L.S.	-	-	-	-	-	

PROPOSED INPUT REQUIREMENT WITHOUT IRRIGATION

Item	Unit	Paddy		Jute		Groundnuts		(Unit: per acre)		
		Ordinary	HYV(Wet)	Pre-monsoon	Monsoon	Rain	Winter	Early	Late	Matpe
<u>Yield</u>	lbs	1,874	3,453	865	776	687	937	259	268	455
<u>Input</u>										
- Seed	lbs	69	69	15	15	150	150	10	10	18
- Fertilizer										
Urea	lbs	7	112	112	84	28	28	14	14	14
TSP	lbs	-	56	36	24	28	28	28	28	28
M. Potash	lbs	-	14	-	-	-	-	-	-	-
- Pesticides	gal.	-	0.2	-	-	-	-	-	-	-
- Herbicides	gal.	-	-	-	-	-	-	-	-	-
- Labor										
Family	day	27.0	31.8	44.4	44.4	66.6	66.6	28.8	28.8	30.0
Hired	day	18.0	21.2	29.6	29.6	44.4	44.4	19.2	19.2	20.0
Total	day	45.0	53.0	74.0	74.0	111.0	111.0	48.0	48.0	50.0
- Animal										
Family	day	9.0	9.6	6.6	6.6	13.2	13.2	7.8	7.8	9.6
Hired	day	6.0	6.4	4.4	4.4	8.8	8.8	5.2	5.2	6.4
Total	day	15.0	16.0	11.0	11.0	22.0	22.0	13.0	13.0	16.0
- Machinery	hour	-	-	L.S.	L.S.	-	-	-	-	-

Appendix K-5 ECONOMIC EVALUATION OF IRRIGATION PROJECTS

1. Wegyi Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE 2.50 % 5.00 % 7.50 % 10.00 % 12.50 % 15.00 % 17.50 % 20.00 % 22.50 % 25.00 %

PW OF BENEFIT 6120322. 3407225. 2059259. 1328334. 901101. 635458. 461917. 343962. 261210. 201635.

PW OF COST 850574. 697607. 599819. 529801. 475630. 431568. 394557. 362793. 335128. 310771.

B/C RATIO 7.196 4.884 3.433 2.507 1.895 1.472 1.171 0.948 0.779 0.649

INTERNAL RATE OF RETURN ----- JUST EQUAL 19.45 %

2. Taunyo Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3505294.	1951416.	1179400.	760786.	516088.	363946.	264553.	196997.	149603.	115482.
PW OF COST	513405.	421075.	362051.	319788.	287091.	260495.	238154.	218982.	202284.	187582.
B/C RATIO	6.828	4.634	3.258	2.379	1.798	1.397	1.111	0.900	0.740	0.616

INTERNAL RATE OF RETURN ----- JUST EQUAL 18.86 %

3. Bawbin Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE 2.50 % 5.00 % 7.50 % 10.00 % 12.50 % 15.00 % 17.50 % 20.00 % 22.50 % 25.00 %

PW OF BENEFIT 2411095. 1342275. 811250. 523303. 354988. 250338. 181972. 135503. 102903. 79434.

PW OF COST 527518. 432651. 372004. 328580. 294984. 267657. 244702. 225003. 207845. 192739.

B/C RATIO 4.571 3.102 2.181 1.593 1.203 0.935 0.744 0.602 0.495 0.412

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.44 %

4. Gamon Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	750333.	417716.	252459.	162850.	110471.	77904.	56630.	42169.	32024.	24720.
PW OF COST	293010.	240313.	206626.	182505.	163844.	148665.	135915.	124973.	115443.	107053.
B/C RATIO	2.561	1.738	1.222	0.892	0.674	0.524	0.417.	0.337	0.277	0.231

INTERNAL RATE OF RETURN ----- JUST EQUAL 9.25 %

5. Minhla Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	1333939.	742618.	448824.	289517.	196397.	138499.	100675.	74967.	56932.	43947.
PW OF COST	301061.	246920.	212308.	187525.	168352.	152756.	139655.	128412.	118621.	109999.
B/C RATIO	4.431	3.008	2.114	1.544	1.167	0.907	0.721	0.584	0.480	0.400

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.16 %

6. Kadinbilin Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3167810.	1763540.	1065857.	687540.	466400.	328906.	239083.	178031.	135199.	104364.
PW OF COST	455138.	373284.	320957.	283491.	254504.	230927.	211122.	194126.	179323.	166290.
B/C RATIO	6.960	4.724	3.321	2.425	1.833	1.424	1.132	0.917	0.754	0.628

INTERNAL RATE OF RETURN ----- JUST EQUAL 19.09 %

7. Thegaw Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	2150930.	1197440.	723714.	466837.	316684.	223326.	162336.	120882.	91800.	70863.
PW OF COST	342606.	280993.	241604.	213401.	191581.	173834.	158925.	146131.	134988.	125177.
B/C RATIO	6.278	4.261	2.995	2.188	1.653	1.285	1.021	0.827	0.680	0.566

INTERNAL RATE OF RETURN ----- JUST EQUAL 17.80 %

8. Thonze Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PV OF BENEFIT	6577141.	3661539.	2212957.	1427484.	968358.	682888.	496394.	369635.	280707.	216685.
PV OF COST	845542.	693478.	596268.	526663.	472813.	429012.	392219.	360643.	333142.	308930.
B/C RATIO	7.779	5.280	3.711	2.710	2.048	1.592	1.266	1.025	0.843	0.701

INTERNAL RATE OF RETURN ----- JUST EQUAL 20.37 %

9. Okkan Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	4919874.	2738927.	1655349.	1067801.	724358.	510818.	371315.	276497.	209976.	162086.
PW OF COST	662236.	543138.	467002.	412487.	370312.	336006.	307189.	282459.	260920.	241957.
B/C RATIO	7.429	5.043	3.545	2.589	1.956	1.520	1.209	0.979	0.805	0.670

INTERNAL RATE OF RETURN ----- JUST EQUAL 19.79 %

10. Nyangging Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	258685.	144011.	87038.	56145.	38086.	26859.	19524.	14538.	11040.	8522.
PW OF COST	56255.	46140.	39673.	35042.	31460.	28545.	26097.	23997.	22167.	20556.
B/C RATIO	4.598	3.121	2.194	1.602	1.211	0.941	0.748	0.606	0.498	0.415

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.49 %

11. Buyo Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	905494.	504095.	304665.	196526.	133315.	94014.	68339.	50889.	38646.	29832.
PW OF COST	224442.	184077.	158274.	139797.	125503.	113876.	104110.	95729.	88429.	82002.
B/C RATIO	4.034	2.738	1.925	1.406	1.062	0.826	0.656	0.532	0.437	0.364

INTERNAL RATE OF RETURN ----- JUST EQUAL 13.21 %

12. Thaledan Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	462057.	257230.	155465.	100283.	68029.	47974.	34873.	25968.	19720.	15223.
PW OF COST	78033.	64002.	55031.	48608.	43638.	39596.	36200.	33286.	30748.	28513.
B/C RATIO	5.921	4.019	2.825	2.063	1.559	1.212	0.963	0.780	0.641	0.534

INTERNAL RATE OF RETURN ----- JUST EQUAL 17.16 %

13. Alonmoyak Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	1478297.	822984.	497395.	320849.	217651.	153488.	111571.	83080.	63093.	48703.
PW OF COST	332112.	272387.	234206.	206868.	185716.	168512.	154060.	141658.	130856.	121345.
B/C RATIO	4.451	3.021	2.124	1.551	1.172	0.911	0.724	0.586	0.482	0.401

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.20 %

14. North Kun Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	979386.	545232.	329527.	212564.	144195.	101686.	73916.	55042.	41799.	32266.
PW OF COST	241787.	198302.	170504.	150600.	135201.	122676.	112155.	103126.	95262.	88338.
B/C RATIO	4.051	2.749	1.933	1.411	1.067	0.829	0.659	0.534	0.439	0.365

INTERNAL RATE OF RETURN ----- JUST EQUAL 13.25 %

15. Phatshin Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	554443.	308663.	186549.	120335.	81630.	57566.	41845.	31160.	23663.	18266.
PW OF COST	160306.	131478.	113049.	99853.	89643.	81339.	74364.	68377.	63164.	58573.
B/C RATIO	3.459	2.348	1.650	1.205	0.911	0.708	0.563	0.456	0.375	0.312

INTERNAL RATE OF RETURN ----- JUST EQUAL 11.80 %

16. Mamy Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	1501929.	836139.	505346.	325977.	221130.	155941.	113354.	84608.	64102.	49482.
PW OF COST	625316.	512862.	440973.	389497.	349673.	317279.	290070.	266718.	246379.	228473.
B/C RATIO	2.402	1.630	1.146	0.837	0.632	0.491	0.391	0.316	0.260	0.217

INTERNAL RATE OF RETURN ----- JUST EQUAL 8.76 %

17. Kyanin Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE 2.50 % 5.00 % 7.50 % 10.00 % 12.50 % 15.00 % 17.50 % 20.00 % 22.50 % 25.00 %

PW OF BENEFIT 2897754. 1613200. 974994. 628927. 426640. 300867. 218701. 162853. 123674. 95467.

PW OF COST 599106. 491364. 422487. 373170. 335015. 303979. 277910. 255537. 236051. 218895.

B/C RATIO 4.837 3.283 2.308 1.685 1.273 0.990 0.787 0.637 0.524 0.436

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.92 %

18. Mankathu Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	2950700.	1642676.	992808.	640418.	434835.	306364.	222697.	165829.	125933.	97211.
PW OF COST	664441.	544950.	468561.	413865.	371569.	337129.	308217.	283404.	261793.	242767.
B/C RATIO	4.441	3.014	2.119	1.547	1.169	0.909	0.723	0.585	0.481	0.400

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.18 %

19. Nankathu Reservoir

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3533848.	1967316.	1189006.	766984.	520292.	366911.	266709.	198602.	150822.	116423.
PW OF COST	979423.	803286.	690685.	610060.	547684.	496947.	454329.	417753.	385898.	357851.
B/C RATIO	3.608	2.449	1.721	1.257	0.950	0.738	0.587	0.475	0.391	0.325

INTERNAL RATE OF RETURN ----- JUST EQUAL 12.13 %

20. Gyat Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3533848.	1967316.	1189006.	766984.	520292.	366911.	266709.	198602.	150822.	116423.
PW OF COST	653562.	536025.	460886.	407085.	365462.	331606.	303166.	278760.	257503.	238788.
B/C RATIO	5.407	3.670	2.580	1.884	1.424	1.106	0.880	0.712	0.586	0.488

INTERNAL RATE OF RETURN ----- JUST EQUAL 16.23 %

21. Mezili Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3557277.	1869019.	1129600.	728661.	494295.	348578.	253382.	188679.	143286.	110606.
PW OF COST	613624.	503272.	432726.	382213.	343133.	311346.	284645.	261730.	241771.	224200.
B/C RATIO	5.471	3.714	2.610	1.906	1.441	1.120	0.890	0.721	0.593	0.493

INTERNAL RATE OF RETURN ----- JUST EQUAL 16.36 %

22. South Kun Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3427850.	1908305.	1153341.	743978.	504686.	355905.	258709.	192665.	146298.	112931.
PW OF COST	605166.	496332.	426757.	376941.	338399.	307050.	280717.	258117.	238435.	221106.
B/C RATIO	5.664	3.845	2.703	1.974	1.491	1.159	0.922	0.746	0.614	0.511

INTERNAL RATE OF RETURN ----- JUST EQUAL 16.72 %

23. Kyetpaung Reservoir

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	353333.	196703.	118883.	76686.	52021.	36686.	26667.	19857.	15080.	11641.
PW OF COST	167972.	137765.	118454.	104626.	93929.	85227.	77918.	71645.	66182.	61373.
B/C RATIO	2.104	1.428	1.004	0.733	0.554	0.430	0.342	0.277	0.228	0.190

INTERNAL RATE OF RETURN ----- JUST EQUAL 7.54 %

Appendix K-6 ECONOMIC EVALUATION OF IDENTIFIED PROJECTS (IRRIGATION)

1. West Pégou Yoma I

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	14886065.	7840374.	4450449.	2684797.	1699875.	1118213.	758388.	527217.	374084.	270040.
PW OF COST	2136180.	1679124.	1384049.	1173667.	1013423.	885990.	781784.	694906.	621466.	558721.
B/C RATIO	6.969	4.669	3.216	2.288	1.677	1.262	0.970	0.759	0.602	0.483

INTERNAL RATE OF RETURN ----- JUST EQUAL 17.27 %

2. West Pegu Yoma II

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	8939473.	4810771.	2798319.	1733007.	1127480.	762413.	531561.	379847.	276991.	205450.
PW OF COST	1313327.	1054565.	887750.	768178.	676142.	601977.	540416.	488285.	443519.	404669.
B/C RATIO	6.807	4.562	3.152	2.256	1.668	1.267	0.984	0.778	0.625	0.508

INTERNAL RATE OF RETURN ----- JUST EQUAL 17.37 %

3. West Pegu Yoma III

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	4495375.	2502603.	1512524.	975673.	661858.	466744.	339277.	252640.	191859.	148101.
PW OF COST	1121583.	919887.	790941.	698613.	627182.	569080.	520276.	478391.	441912.	409794.
B/C RATIO	4.008	2.721	1.912	1.397	1.055	0.820	0.652	0.528	0.434	0.361

INTERNAL RATE OF RETURN ----- JUST EQUAL 13.13 %

4. East Arakan Yoma I

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	9653928.	5084645.	2886207.	1741145.	1102406.	725191.	491831.	341911.	242601.	175127.
PW OF COST	2657614.	2089006.	1721908.	1460179.	1260795.	1102256.	972628.	864543.	773176.	695114.
B/C RATIO	3.633	2.434	1.676	1.192	0.874	0.658	0.506	0.395	0.314	0.252

INTERNAL RATE OF RETURN ----- JUST EQUAL 11.60 %

5. East Arakan Yoma II

***** CALCULATION OF INTERNAL RATE OF RETURN *****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	3012122.	1676868.	1013474.	653749.	443478.	312741.	227333.	169281.	128555.	99235.
PW OF COST	734208.	602171.	517762.	457323.	410564.	372530.	340582.	313163.	289283.	268258.
B/C RATIO	4.103	2.785	1.957	1.430	1.080	0.840	0.667	0.541	0.444	0.370

INTERNAL RATE OF RETURN ----- JUST EQUAL 13.39 %

6. East Arakan Yoma III

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	9447607.	4975979.	2824526.	1703934.	1078847.	709692.	481319.	334604.	237416.	171384.
PW OF COST	1890463.	1485985.	1224847.	1038689.	896858.	784084.	691862.	614977.	549985.	494457.
B/C RATIO	4.998	3.349	2.306	1.640	1.203	0.905	0.696	0.544	0.432	0.347

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.27 %

7. East Arakan Yoma IV

**** CALCULATION OF INTERNAL RATE OF RETURN ****

(UNIT: KYAT THOUSAND)

DISCOUNT RATE	2.50 %	5.00 %	7.50 %	10.00 %	12.50 %	15.00 %	17.50 %	20.00 %	22.50 %	25.00 %
PW OF BENEFIT	1626227.	905339.	547169.	352956.	239431.	168847.	122735.	91394.	69406.	53577.
PW OF COST	358730.	294219.	252978.	223447.	200601.	182018.	166408.	153011.	141344.	131071.
B/C RATIO	4.533	3.077	2.163	1.580	1.194	0.928	0.738	0.597	0.491	0.409

INTERNAL RATE OF RETURN ----- JUST EQUAL 14.37 %



Appendix K-7 NET FARM INCOME BY CROP

Crop: Paddy

	(Unit: Kyat per acre)					
	Ordinary Variety		HYV (Wet)			HYV (Dry)
	<u>P</u>	<u>W</u>	<u>P</u>	<u>W</u>	<u>W</u>	<u>W</u>
Yield (BKT)	38.2	40.0	63.6	75.0	100.0	110.0
Unit Price (Ks/BKT)	9	9	9	9	9	9
<u>Gross Farm Income</u>	<u>343.8</u>	<u>360.0</u>	<u>572.4</u>	<u>675.0</u>	<u>900.0</u>	<u>990.0</u>
<u>Expenditures</u>						
- Materials						
Seed	13.5	13.5	13.5	13.5	9	9
Urea	-	1.5	18.0	24.0	23.7	31.3
T.S.P.	-	-	16.8	33.5	40.1	46.7
M. Potash	-	-	-	4.3	6.7	10.0
Pesticides	-	-	-	46.0	115.0	115.0
Herbicides	-	-	-	-	23.2	23.2
Miscellaneous	2.7	3.0	9.7	24.7	44.5	47.0
<u>Sub-total</u>	<u>16.2</u>	<u>18.0</u>	<u>58.0</u>	<u>148.0</u>	<u>267.2</u>	<u>282.2</u>
- Hired Labor						
Labor	117.6	126.0	140.0	148.4	82.6	82.6
Draft Cattle	72.8	78.0	78.0	83.2	-	45.5
<u>Sub-total</u>	<u>190.4</u>	<u>204.0</u>	<u>218.0</u>	<u>231.6</u>	<u>82.6</u>	<u>130.1</u>
- Machinery	-	-	-	-	176.0	153.0
- Land Tax	2.0	2.0	2.0	2.0	6.0	6.0
- <u>Total</u>	<u>208.6</u>	<u>224.0</u>	<u>278.0</u>	<u>381.6</u>	<u>531.8</u>	<u>571.3</u>
<u>Net Farm Income</u>	<u>135.2</u>	<u>136.0</u>	<u>294.4</u>	<u>293.4</u>	<u>368.2</u>	<u>418.7</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation

See Appendix K-4

NET FARM INCOME BY CROP

Crop: Groundnut

(Unit: Kyat per acre)

	Winter			Rain	
	<u>P</u>	<u>W</u>	<u>W</u>	<u>P</u>	<u>W</u>
Yield (BKT)	30.4	35.0	60.0	22.2	27.5
Unit Price (Ks/BKT)	47	47	47	47	47
<u>Gross Farm Income</u>	<u>1,428.8</u>	<u>1,645.0</u>	<u>2,820.0</u>	<u>1,043.4</u>	<u>1,292.5</u>
<u>Expenditures</u>					
- Materials					
Seed	282.0	282.0	188.0	282.0	282.0
Urea	1.1	6.0	12.0	1.1	6.0
T.S.P.	3.0	16.8	33.5	3.0	16.8
M. Potash	-	-	4.3	-	-
Pesticides	-	-	46.0	-	-
Herbicides	-	-	-	-	-
Miscellaneous	57.2	61.0	56.8	57.2	61.0
<u>Sub-total</u>	<u>343.3</u>	<u>365.8</u>	<u>340.1</u>	<u>343.3</u>	<u>365.8</u>
- Farm Labor					
Laborer	282.8	310.8	177.8	226.8	310.8
Draft Cattle	114.4	114.4	-	114.4	114.4
<u>Sub-total</u>	<u>397.2</u>	<u>425.2</u>	<u>177.8</u>	<u>341.2</u>	<u>425.2</u>
- Machinery	-	-	130.0	-	-
- Land Tax	2.0	2.0	6.0	2.0	2.0
- <u>Total</u>	<u>742.5</u>	<u>793.0</u>	<u>653.9</u>	<u>686.5</u>	<u>793.0</u>
<u>Net Farm Income</u>	<u>686.3</u>	<u>852.0</u>	<u>2,166.1</u>	<u>356.9</u>	<u>499.5</u>

Note: P-Present, W-Without Irrigation, W-With Irrigation

See Appendix K-4

NET FARM INCOME BY CROP

Crop: Sesame

(Unit: Kyat per acre)

	Late			Early	
	<u>P</u>	<u>W</u>	<u>W</u>	<u>P</u>	<u>W</u>
Yield (BKT)	4.0	5.0	12.5	3.8	4.8
Unit Price (Ks/BKT)	158.5	158.5	158.5	158.5	158.5
<u>Gross Farm Income</u>	<u>634.0</u>	<u>792.5</u>	<u>1,981.3</u>	<u>602.3</u>	<u>760.8</u>
<u>Expenditures</u>					
- Materials					
Seed	29.4	29.4	20.5	29.4	29.4
Urea	-	3.0	6.0	-	3.0
T.S.P.	-	16.8	33.5	-	16.8
M. Potash	-	-	4.3	-	-
Pesticides	-	-	46.0	-	-
Herbicides	-	-	-	-	-
Miscellaneous	5.9	9.8	22.1	5.9	9.8
<u>Sub-total</u>	<u>35.3</u>	<u>59.0</u>	<u>132.4</u>	<u>35.3</u>	<u>59.0</u>
- Hired Labor					
Laborer	117.6	134.4	75.6	117.6	134.4
Draft Cattle	67.6	67.6	-	67.6	67.6
<u>Sub-total</u>	<u>185.2</u>	<u>202.0</u>	<u>75.6</u>	<u>185.2</u>	<u>202.0</u>
- Machinery	-	-	130.0	-	-
- Land Tax	2.0	2.0	6.0	2.0	2.0
- <u>Total</u>	<u>222.5</u>	<u>263.0</u>	<u>344.0</u>	<u>222.5</u>	<u>263.0</u>
<u>Net Farm Income</u>	<u>411.5</u>	<u>529.5</u>	<u>1,637.3</u>	<u>379.8</u>	<u>497.8</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation

See Appendix K-4

NET FARM INCOME BY CROP

Crop: Matpe

(Unit: Kyat per acre)

	<u>Present</u>	<u>Without Irrigation</u>	<u>With Irrigation</u>
Yield (BKT/ac)	5.1	6.3	12.4
Unit Price (Ks/BKT)	50	50	50
<u>Gross Farm Income</u>	<u>255.0</u>	<u>315.0</u>	<u>620.0</u>
<u>Expenditures</u>			
- Materials			
Seed	12.5	12.5	12.5
Urea	-	3.0	6.0
T.S.P.	-	16.8	33.5
M. Potash	-	-	4.3
Pesticides	-	-	46.0
Herbicides	-	-	-
Miscellaneous	2.5	6.5	20.5
<u>Subtotal</u>	<u>15.0</u>	<u>38.8</u>	<u>123.2</u>
- Hired Labor			
Laborer	123.2	140.0	82.6
Draft Cattle	83.2	83.2	-
<u>Sub-total</u>	<u>206.4</u>	<u>223.2</u>	<u>82.6</u>
- Machinery	-	-	130.0
- Land Tax	2.0	2.0	6.0
- <u>Total</u>	<u>223.4</u>	<u>264.0</u>	<u>341.8</u>
<u>Net Farm Income</u>	<u>31.6</u>	<u>51.0</u>	<u>278.2</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation

See Appendix K-4

NET FARM INCOME BY CROP

Crop: Jute

(Unit: Ks per acre)

	Pre-Monsoon			Monsoon	
	P	\bar{W}	W	P	\bar{W}
Yield (BKT)	194.1	240	400	165.9	210
Unit Price (Ks/BKT)	3.1	3.1	3.1	3.1	3.1
<u>Gross Farm Income</u>	<u>601.7</u>	<u>744.0</u>	<u>1,240.0</u>	<u>514.3</u>	<u>651.0</u>
<u>Expenditures</u>					
- Materials					
Seed	12.9	12.9	8.6	12.9	12.9
Urea	12.0	24.0	36.0	12.0	18.0
T.S.P.	9.6	21.5	33.5	9.6	14.4
M. Potash	-	-	-	-	-
Pesticides	-	-	46.0	-	-
Herbicides	-	-	-	-	-
Miscellaneous	6.9	11.7	24.8	6.9	9.1
<u>Sub-total</u>	<u>41.4</u>	<u>70.1</u>	<u>148.9</u>	<u>41.4</u>	<u>54.4</u>
- Hired Labor					
Laborer	196.0	207.2	121.8	196.0	207.2
Draft Cattle	57.2	57.2	-	57.2	57.2
<u>Sub-total</u>	<u>253.2</u>	<u>264.4</u>	<u>121.8</u>	<u>253.2</u>	<u>264.4</u>
- Machinery	30.0	30.0	130.0	30.0	30.0
- Land Tax	2.0	2.0	6.0	2.0	2.0
- <u>Total</u>	<u>326.6</u>	<u>366.5</u>	<u>406.7</u>	<u>326.6</u>	<u>350.8</u>
<u>Net Farm Income</u>	<u>275.1</u>	<u>377.5</u>	<u>833.3</u>	<u>187.7</u>	<u>300.2</u>

Note: P-Present, \bar{W} -Without Irrigation, W-With Irrigation

See Appendix K-4

JICA