

**ANNEX O. AGRO-ECONOMY, PROJECT BENEFITS AND PROJECT
EVALUATION**

O.1 Basic Development Plan

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Table O.1-1 Annual Income per Household by Model Area

	Farm Income		Non-Farm Income	Total
	Crop	Livestock		
1. Sappa-ac ARC, Bangued Abra, CAR	16,843	2,456	15,819	35,118
2. Talugtug ARC, San Juan La Union, Region I	9,044	1,020	44,141	54,205
3. Cofcaville ARC, Maddela Quirino, Region II	24,719	2,072	4,606	31,397
4. Montilla ARC, Tuyo, Balanga Bataan, Region III	9,659	3,827	91,890	105,376
5. Maulawin ARC, Calauag Quezon, Region IV	19,541	1,650	7,243	28,434
6. Pagasa, Tinambac Camarines Sur, Region V	19,809	1,903	3,128	24,840
7. Abiera Estate, Altavaz Aklan, Region VI	5,916	470	2,092	8,478
8. San Vicente ARC, Trinidad Bohol, Region VIII	15,472	1,901	5,556	22,929
9. Marangog ARC, Hilongos Leyte, Region VIII	7,811	2,501	2,939	13,251
10. Silae ARC, Malaybalay Bukidnon, Region X	21,974	1,343	1,316	24,633
11. Kipalili ARC, Asuncion Davao Del Norte, Region XI	9,713	797	3,172	13,682
12. Mat-i ARC, Surigao City Surigao Del Norte, Region XIII	15,296	1,690	5,197	22,183
Average Total Income				52,043.83

Source: Farmer's Agro-Socio-Economic Survey, JICA Study Team, 1996

Table O.1-2 Comparison with Annual Income and Expenditures per Household by Model Area

Model Area	Total Income	Total Expenditure	Total
1. Sappo-cc ARC, Bangued Abra, CAR	35,117	22,136	12,981
2. Talugog ARC, San Juan La Union, Region I	54,205	49,191	5,014
3. Cofcaville ARC, Maddela Quirino, Region II	31,397	36,637	(5,240)
4. Montilla ARC, Tuyo, Balanga Bataan, Region III	105,376	91,821	13,555
5. Maulawin ARC, Calauag Quezon, Region IV	28,434	37,011	(8,577)
6. Pagasa, Tinambac Camarines Sur, Region V	24,839	34,682	(9,843)
7. Abiera Estate, Altavaz Aklan, Region VI	8,478	24,913	(16,435)
8. San Vicente ARC, Trinidad Bohol, Region VIII	22,929	28,866	(5,937)
9. Marangog ARC, Hilongos Leyte, Region VIII	13,251	24,848	(11,597)
10. Silac ARC, Malaybalay Bukidnon, Region X	24,632	34,025	(9,393)
11. Kipalili ARC, Asuncion Davao Del Norte, Region XI	13,682	19,581	(5,899)
12. Mat-i ARC, Surigao City Surigao Del Norte, Region XIII	22,183	36,702	(14,519)
Average Balance			(4,657.50)

Source: Farmer's Agro-Socio-Economic Survey, JICA Study Team, 1996

Table O.1-3 Comparison with Annual per Capita Poverty Threshold

Selected Sample Area	Sappa-ac Bangwed, Abra CAR	Tabugog San Juan, La Union I	Cofeaville Maddela, Quirino II	Montilla Balanga, Bataan III	Maulawin Calaung, Quezon IV	Pagasa Tinambac, Cam. Sur V	Abiera Altavas, Aklan VI	San Vicente Trinidad, Bohol VII	Marangog Hilongos, Leyte VIII	Silae Malaybalay, Bukidnon X	Kipallii Asuncion, Davao XI	Mat-i Sur. Norte XIII
TOTAL INCOME	35118	54205	31397	105376	28434	24840	8478	22929	13251	24633	13682	22183
Average HH pop	5.6	5.4	4.5	5.4	5.8	6.3	6.4	5.7	6.1	5.2	7	5.3
REGION	CAR	I	II	III	IV	V	VI	VII	VIII	X	XI	XIII
Ave. HH Income	6271.07	10037.96	6977.11	19514.07	4902.41	3942.86	1324.69	4022.63	2172.30	4737.12	1954.57	4185.47
Annual Per Capita Poverty Threshold (Rural) **	11585	9878	8195	8497	9013	8313	8053	5812	6114	7760	7621	8349
Annual Per Capita Poverty Threshold (Total) *	11522	10064	8522	9744	9481	8421	8201	6409	6482	8682	8236	8961
Annual Per Capita Poverty Threshold (Rural) **	11585	9878	8195	8497	9013	8313	8053	5812	6114	7760	7621	8349

Source: Farmer's Agro-Socio-Economic Survey & "Poverty Statistics", National Statistical Coordination Board, Nov 1995

* 1994 Preliminary Data, from table 1, Poverty Statistics, NSCB, Nov 1995

** 1994 Preliminary Data, from table 1b, Poverty Statistics, NSCB, Nov 1995

Table O.1-4 Source of Credit of Farmers by Model Area

(Unit: % = 50 N)

Model Area	SELF-FINANCED		SOURCE OF FARM CREDIT						Neighbors/ Friends
	Yes	No	Bank	Coops	NGO	Merchant/ Traders	Relatives		
1. Sappa-ac ARC Bangued, Abra. CAR	82	4					2		
2. Talugtug ARC San Juan, La Union, Region I	66	34		10				8	
3. Cofcaville ARC Maddela, Quirino, Region II	4	82		36	2	52			
4. Montulla Est. ARC Baianga, Bataan, Region III	26	42	22	2			18		
5. Maulawin ARC Calauag, Quezon, Region IV	54	36			8	6		22	
6. Pagasa ARC Tinambac, Camarines Sur Region V	54	40		12		8			
7. Abiera Estate Altavas, Aklan, Region VI	66	20	4	2		10			
8. San Vicente ARC Trinidad, Bohol, Region VII	18	74		54		10			
9. Marangog ARC Hilongos, Leyte, Region VIII	56	44	6	4		38	2		
10. Silac ARC Malaybalay, Bukidnon Region X	36	60	14	2		44	2		
11. Kipalili ARC Asuncion, Davao, Region XI	98								
12. Mat-i ARC Surigao City, Surigao del Sur, Region XIII	70	30	14	4			10	22	
Average	53	39	5	11	1	14	3	4	

Source: Farmer's Agro-Socio-Economic Survey, JICA Study Team, 1996

Table O.15 Number of Farmers Who availed of Loan, Necessity of Loan, Payment and Resources for Non-payment of Loan by Model Area

Model Area	No. of Farmers who availed of Loan	Total Amount of Loan	Average (Pesos)	Necessity of Loan		Payment of Loan		Reasons for Non-Payment		
				Yes	No	Yes	No	Low Income	High Interest	Others
1. Sappa-ac ARC										
Bangued, Abra, CAR	2	800	400	6	2	2	0			
2. Talugtog ARC										
San Juan, La Union, Region I	17	59,600	3,505	6	11	18	0			
3. Cofeaville ARC										
Maddela, Quirino, Region II	41	243,680	5,943	16	28	33	11	2		8
4. Montilla Est. ARC										
Balanga, Batuan, Region III	21	237,100	11,290	12	10	22	0			
5. Maulawin ARC										
Calauag, Quezon, Region IV	15	37,950	2,530	11	8	18	2	1		
6. Pagasa ARC										
Tinambac, Camarines Sur	20	35,395	1,770	8	11	20	1	1		
7. Abiera Estate										
Altavas, Aklan, Region VI	9	16,445	1,645	5	4	5	4	2	1	2
8. San Vicente ARC										
Trinidad, Bohol, Region VII	34	40,366	1,090	13	25	32	6	1		2
9. Marungog ARC										
Hilongos, Leyte, Region VIII	22	48,600	2,557	8	13	22	1	1		
10. Silae ARC										
Malaybalay, Bukidnon	30	189,700	6,323	15	15	23	3			3
11. Kipahili ARC										
Asuncion, Davao, Region XI	0									
12. Mat-i ARC										
Surigao City, Surigao del Sur, Region XIII	6	91,500	15,250	8	8	13	3	1		1
Total	217	1,001,136	52,505	108	155	213	31	9	1	16
Average	36	166,856	8,717	18	23	36	5	2	0.2	3

Source: Farmer's Agro-Socio-Economic Survey, JICA Study Team, 1996

Table O.1-6 Demand and Supply of Selected Agricultural products (Staple Food) by Model Area

Model Area	Population	Rice Per Capita Consumption Per Yr. (kg)	Requirements In Kg/Yr.	Production (kg)	Balance (- or +)	Meat Per Capita Consumption Per Yr. (kg)	Requirements In Kg/Yr.	Production (kg)	Balance (- or +)	Fish Per Capita Consumption Per Yr. (kg)	Requirements In Kg/Yr.	Production (kg)	Balance (- or +)	Veget. Per Capita Consumption Per Yr. (kg)	Requirements In Kg/Yr.	Production (kg)	Balance (- or +)
1. Seprenaw ARC																	
Banigund, Abao, CAR	278	90	25,020	17,700	(7,320)	14	3,802	14,542	10,650	5	1,300	-	1,945	-	1,945	1,345	(701)
2. Tabugay ARC																	
San Juan, La Union, Region I	270	154	41,580	8,000	(33,580)	27	7,290	6,884	(406)	25	6,750	-	9,180	24	9,180	1,430	(702)
3. Coferville ARC																	
Maddela, Quatro, Region II	253	152	33,906	7,577	(26,329)	22	4,906	9,163	4,257	13	3,690	-	7,500	24	7,500	370	(703)
4. Monella Est ARC																	
Balinga, Buhay, Region III	271	140	40,370	-	(40,370)	57	15,437	11,992	(3,445)	43	11,633	-	9,756	26	9,756	20,410	(10,654)
5. Maulawan ARC																	
Catalay, Quatro, Region IV	291	141	41,031	12,262	(28,769)	14	4,074	10,097	6,023	16	4,656	-	4,365	15	4,365	290	(4,075)
6. Pagasa ARC																	
Talambao, Camarines Sur, Region V	313	127	39,751	5,340	(34,411)	15	4,695	11,211	6,516	21	6,573	-	5,312	17	5,312	265	(4,556)
7. Abena Estate																	
Abraon, Abao, Region VI	318	90	31,680	3,874	(27,806)	10	3,180	13,512	10,332	14	4,352	-	2,226	-	2,226	-	(2,226)
8. San Vicente ARC																	
Trinidad, Buhay, Region VII	260	122	34,526	8,277	(26,249)	9	2,547	9,007	6,460	20	5,660	-	4,528	16	4,528	305	(4,223)
9. Managag ARC																	
Hilongon, Lente, Region VIII	306	101	30,906	584	(29,322)	6	1,806	8,927	7,091	17	5,202	-	3,366	11	3,366	-	(2,366)
10. Silas ARC																	
Malaybalay, Bulacan, Region IX	250	170	33,670	1,563	(32,107)	19	4,912	6,604	1,775	18	4,662	-	2,640	10	2,640	-	(2,640)
11. Kipuli ARC																	
Asuncion, Davao, Region XI	348	88	30,624	10,551	(20,073)	4	1,392	6,413	5,021	6	2,088	-	1,960	4	1,960	470	(670)
12. Man ARC																	
Sungao City, Surigao del Sur, Region XIII	263	159	41,817	-	(41,817)	18	4,704	7,733	2,999	24	6,312	-	2,803	11	2,803	100	(2,703)
Average	3,423	1,521	422,184	76,323	(350,860)	215	58,905	115,875	56,961	222	62,297	-	55,175	202	55,175	76,685	(20,481)

Source: Farmer's Agro-Socio-Economic Survey, JICA Study Team, 1996

Table O.1-7 Net Production Value Without-Project: All 12 Model Areas

Table O.1-7 Net Production Value Without-Project: All 12 Model Areas			
Region	ARC	Cluster Physical Area W-O/Project With-Project Total (ha)	Production Area NPV-W/O (000pcso)
Car			
I	Sampaac	1	375
I	Taluglog	2	284
I	Colcaville	2	167
I	Montilla	1	490
I	Montilla	1	108
IV	Maulawin	1	321
V	Pakana	2	307
VI	Abiera Estate	3	289
VII	San Vicente	3	456
VIII	Marangog	3	340
X	Silac	3	164
XI	Kipalili	3	327
XIII	Mat-i	3	200
TOTAL			
		3,534	2,564
			4,250
			5,799

Table O.1-8 Net Production Value With-Project: All 12 Model Areas

Table O.1-8 Net Production Value With-Project: All 12 Model Areas																												
Region	ARC	Prod. Area (ha)	Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
All Areas																												
Car																												
I	Sampaac	448	1,002	16,142	24,376	32,491	36,156	38,205	32,649	46,407	47,700	52,629	64,176	36,379	53,074	61,501	85,371	85,190	69,674	53,664	53,246	53,009	53,009	52,921	52,921	52,921	52,921	52,921
I	Taluglog	544	1,002	16,142	24,376	32,491	36,156	38,205	32,649	46,407	47,700	52,629	64,176	36,379	53,074	61,501	85,371	85,190	69,674	53,664	53,246	53,009	53,009	52,921	52,921	52,921	52,921	52,921
I	Colcaville	244	880	2,810	3,807	4,794	5,781	6,768	1,845	3,842	4,829	5,816	6,803	1,845	3,842	4,829	5,816	6,803	1,845	3,842	4,829	5,816	6,803	1,845	3,842	4,829	5,816	6,803
I	Montilla	717	880	2,810	3,807	4,794	5,781	6,768	1,845	3,842	4,829	5,816	6,803	1,845	3,842	4,829	5,816	6,803	1,845	3,842	4,829	5,816	6,803	1,845	3,842	4,829	5,816	6,803
I	Montilla	129	461	1,517	2,089	2,661	3,233	3,805	1,015	2,592	3,164	3,736	4,308	1,015	2,592	3,164	3,736	4,308	1,015	2,592	3,164	3,736	4,308	1,015	2,592	3,164	3,736	4,308
IV	Maulawin	383	348	1,371	1,762	2,153	2,544	2,935	3,326	3,717	4,108	4,499	4,890	3,326	3,717	4,108	4,499	4,890	3,326	3,717	4,108	4,499	4,890	3,326	3,717	4,108	4,499	4,890
V	Pakana	449	1,038	2,719	3,432	4,145	4,858	5,571	3,063	4,403	4,733	5,063	5,393	3,063	4,403	4,733	5,063	5,393	3,063	4,403	4,733	5,063	5,393	3,063	4,403	4,733	5,063	5,393
VI	Abiera Estate	256	385	1,085	1,479	1,873	2,267	2,661	3,055	3,449	3,843	4,237	4,631	3,055	3,449	3,843	4,237	4,631	3,055	3,449	3,843	4,237	4,631	3,055	3,449	3,843	4,237	4,631
VII	San Vicente	338	1,468	2,288	3,107	3,926	4,745	5,564	3,984	4,308	4,631	4,955	5,279	3,984	4,308	4,631	4,955	5,279	3,984	4,308	4,631	4,955	5,279	3,984	4,308	4,631	4,955	5,279
VIII	Marangog	333	1,206	2,317	3,136	3,955	4,774	5,593	3,954	4,278	4,602	4,926	5,250	3,954	4,278	4,602	4,926	5,250	3,954	4,278	4,602	4,926	5,250	3,954	4,278	4,602	4,926	5,250
X	Silac	325	1,198	2,208	3,027	3,846	4,665	5,484	3,846	4,170	4,494	4,818	5,142	3,846	4,170	4,494	4,818	5,142	3,846	4,170	4,494	4,818	5,142	3,846	4,170	4,494	4,818	5,142
XI	Kipalili	205	650	1,068	1,461	1,854	2,247	2,640	3,033	3,426	3,819	4,212	4,605	3,033	3,426	3,819	4,212	4,605	3,033	3,426	3,819	4,212	4,605	3,033	3,426	3,819	4,212	4,605
Luzon and Others: Chester																												
Car	Sampaac	0	176	15,219	24,376	32,491	36,156	38,205	32,649	46,407	47,700	52,629	64,176	36,379	53,074	61,501	85,371	85,190	69,674	53,664	53,246	53,009	53,009	52,921	52,921	52,921	52,921	52,921
I	Taluglog	0	215	6,015	8,245	10,475	12,705	14,935	3,235	7,093	7,268	7,443	7,618	3,235	7,093	7,268	7,443	7,618	3,235	7,093	7,268	7,443	7,618	3,235	7,093	7,268	7,443	7,618
I	Colcaville	0	46	1,019	1,346	1,673	2,000	2,327	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249
I	Montilla	0	46	1,019	1,346	1,673	2,000	2,327	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249
I	Montilla	0	46	1,019	1,346	1,673	2,000	2,327	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249	563	1,268	1,595	1,922	2,249
V	Pakana	0	115	1,619	2,134	2,649	3,164	3,679	3,235	3,750	3,925	4,100	4,275	3,235	3,750	3,925	4,100	4,275	3,235	3,750	3,925	4,100	4,275	3,235	3,750	3,925	4,100	4,275
VI	Abiera Estate	0	119	2,111	2,766	3,421	4,076	4,731	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988
VII	San Vicente	0	119	2,111	2,766	3,421	4,076	4,731	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988
VIII	Marangog	0	119	2,111	2,766	3,421	4,076	4,731	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988
X	Silac	0	119	2,111	2,766	3,421	4,076	4,731	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988
XI	Kipalili	0	119	2,111	2,766	3,421	4,076	4,731	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988
XIII	Mat-i	0	119	2,111	2,766	3,421	4,076	4,731	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988	3,602	4,016	4,340	4,664	4,988

Table O.1-9 Project Development and Annual O & M Costs

Region	ARC	(ha)	Year 1	2	3	4	5	6	Total	O&M
Car	Sappaac	448	2,962	14,806	25,039	1,972	1,973	1,972	48,724	309
I	Talugtog	244	2,195	10,716	18,145	1,552	1,545	1,534	35,687	357
II	Cofcaville	717	3,138	14,626	28,205	2,016	2,017	2,017	52,019	685
III	Montilla	129	1,957	9,557	16,184	1,334	1,378	1,369	31,829	318
IV	Maulawin	383	2,308	11,271	19,086	1,633	1,625	1,614	37,537	375
V	Parasa	449	2,979	14,544	24,628	2,107	2,097	2,083	48,438	484
VI	Abiera	296	3,007	14,682	24,861	2,127	2,117	2,102	48,896	489
VII	San Vincente	467	2,898	14,153	23,965	2,050	2,041	2,027	47,134	471
VIII	Marangog	338	3,361	17,446	29,139	2,071	2,072	2,072	56,211	370
X	Silac	239	1,996	9,378	14,043	1,730	1,731	1,731	30,609	368
XI	Kipalili	335	2,786	13,602	23,033	1,970	1,961	1,948	45,300	453
XIII	Mat-i	205	738	3,605	6,104	522	520	516	12,005	120
Total		4,250	30,325	148,386	252,482	21,134	21,077	20,985	494,389	4,799

Table O.1-10 Financial Analysis: Sappaac ARC Region-CAR

Table O.1-10 Financial Analysis: Sappaac ARC Region-CAR		Net Production Value, (\$000 per ha)																								
Item	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Crop Benefit	448	1,602	2,059	3,142	3,566	3,732	3,698	3,706	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698	3,698
Livestock & Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV=0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash Flow Less Project Costs	529	1,087	1,406	2,009	2,406	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543	2,543
Project Investment	2,982	14,806	25,039	3,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431	6,107	5,431
Annual Net	3,309	14,048	22,746	3,150	3,821	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433	3,433
Financial cash flow	128	095																								
PIR =																										
NPV =																										

Table O.1-11 Financial Analysis: Talugtog ARC: Region-I

Table O.1-11 Financial Analysis: Talugtog ARC: Region-I		Net Production Value, (\$000 per ha)																								
Item	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Crop Benefit	244	1,097	809	1,272	1,887	2,129	2,184	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186
Livestock & Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV=0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash Flow Less Project Costs	610	420	2,235	2,772	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012	3,403	3,012
Project Investment	2,817	10,355	16,387	1,857	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357
Annual Net	3,309	10,818	16,200	2,384	3,110	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516	2,516
Financial cash flow	128	095																								
PIR =																										
NPV =																										

Table O.1-12 Financial Analysis: Cofcaville ARC: Region-II

Table O.1-12 Financial Analysis: Cofcaville ARC: Region-II		Net Production Value, (\$000 per ha)																								
Item	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Crop Benefit	717	2,610	3,734	5,478	6,276	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350
Livestock & Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV=0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash Flow Less Project Costs	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819	1,819
Project Investment	2,138	14,626	24,205	2,018	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017	2,017
Annual Net	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685
Financial cash flow	128	095																								
PIR =																										
NPV =																										

Table O.1-13 Financial Analysis: Montilla ARC: Region-III

TABLE 1.2: FINANCIAL ANALYSIS		MONTILLA ARC: REGION-III																									
Items	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Net Production Value (1 000 pesos)																											
Crop benefit	129	117	461	593	905	1 027	1 075	1 178	1 331	1 522	1 840	1 931	2 028	1 901	2 038	2 075	2 054	2 035	2 015	1 995	1 975	1 955	1 935	1 915	1 895	1 875	1 855
Livestock & Others		0	-6	1 072	2 819	3 086	2 511	2 008	2 625	3 066	2 819	2 757	2 561	2 574	2 819	2 863	2 811	2 808	2 727	2 647	2 566	2 485	2 404	2 323	2 242	2 161	2 080
Net Profit		117	455	1 655	3 386	3 991	3 586	3 986	4 958	4 588	4 639	4 688	4 589	4 575	4 655	4 635	4 615	4 595	4 575	4 555	4 535	4 515	4 495	4 475	4 455	4 435	4 415
Net Profit																											
Net Profit		152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152
Cash Flow less project costs	-35	303	1 513	3 521	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634	3 634
Project Investment	1 957	9 557	16 184	1 304	1 378	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389
Annual O&M	1 957	9 557	16 184	1 304	1 378	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389	1 389
Financial cashflow	-2 310	-9 572	-14 989	1 889	2 245	1 747	3 516	3 485	4 118	4 189	4 218	4 119	4 405	4 405	4 185	4 469	4 255	4 097	4 304	4 352	4 308	4 244	4 206	4 132	4 058	3 984	3 910
PIR =																											
NPV 15%																											

Table O.1-14 Financial Analysis: Maulawin ARC: Region-IV

Year		Maulawin ARC: Region-IV																								
Items	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Crop Benefit	362	1,635	2,320	3,432	3,932	3,979	4,019	4,019	4,004	4,449	4,449	4,428	4,428	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946
Livestock & Others		0	-6	1,072	2,919	3,086	2,511	2,008	2,625	3,066	2,819	2,757	2,561	2,574	2,819	2,863	2,811	2,808	2,727	2,647	2,566	2,485	2,404	2,323	2,242	2,161
Net Profit		1,635	2,320	3,432	3,932	3,979	4,019	4,019	4,004	4,449	4,449	4,428	4,428	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946	3,946
Net Profit		453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453
Cash Flow less project costs		1,182	1,869	4,051	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298
Project Investment		2,208	11,271	19,085	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433
Annual O&M		275	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Financial cashflow		-1,501	-9,768	-15,410	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290	4,290
PIR =																										
NPV 15%																										

Table O.1-15 Financial Analysis: Pag-Asa ARC: Region-V

Year		Pag-Asa ARC: Region-V																								
Items	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Crop Benefit	383	348	1,371	1,762	2,089	3,033	3,155	3,503	3,958	4,524	5,469	5,740	6,024	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650	5,650
Livestock & Others		0	-15	1,419	3,541	3,493	2,861	2,225	2,709	3,492	3,246	3,031	2,988	3,401	3,246	3,047	2,842	2,635	2,428	2,221	2,014	1,807	1,600	1,393	1,186	979
Net Profit		1,140	1,356	3,181	3,580	5,835	6,545	6,728	6,665	8,015	8,715	8,770	9,016	9,051	9,051	9,051	9,051	9,051	9,051	9,051	9,051	9,051	9,051	9,051	9,051	9,051
Net Profit		453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453
Cash Flow less project costs		587	903	2,929	5,487	6,092	5,405	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298	6,298
Project Investment		2,979	14,544	24,628	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107	2,107
Annual O&M		484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484	484
Financial cashflow		-2,776	-14,125	-22,193	2,491	3,511	3,928	5,200	5,228	7,000	7,778	7,835	8,076	8,114	8,114	8,114	8,114	8,114	8,114	8,114	8,114	8,114	8,114	8,114	8,114	8,114
PIR =																										
NPV 15%																										

Table O.1-16 Financial Analysis: Abiela ARC: Region-VI

Table O.1-10 Financial Analysis: ABELA ARC, Region VI																											
Items	Prod Area	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Crop Benefit	296	-823	-1,057	-2,029	-2,429	-2,615	-3,063	-3,493	-3,773	-3,931	-4,084	-4,202	-4,258	-4,113	-4,113	-4,226	-4,337	-4,658	-4,146	-4,146	-4,146	-4,146	-4,146	-4,146	-4,146	-4,146	
Livestock & Others	0	-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV=0	1,140	1,018	2,801	6,194	6,601	6,771	7,247	7,375	7,550	7,850	8,017	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,163	8,163	8,163	8,163	8,071	7,912	7,912	7,912	
Cash Flow less project costs	1,140	1,018	2,801	6,194	6,601	6,771	7,247	7,375	7,550	7,850	8,017	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,163	8,163	8,163	8,163	8,071	7,912	7,912	7,912	
Project investment	1,002	900	2,663	6,068	6,493	6,433	7,109	7,237	7,412	7,712	7,879	7,928	7,900	7,941	7,941	7,941	7,941	7,941	7,863	7,863	7,774	7,774	7,444	7,935	7,774	10,429	
Annual O&M	3,007	16,882	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	24,861	
Financial cashflow	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	493	2,194	7,536	7,285	7,334	6,955	7,444	7,285	10,434	
NPV 15%	145	-2,494	-14,271	-22,687	-3,442	-3,867	-5,062	-6,620	-6,744	-7,323	-7,273	-7,390	-7,739	-7,417	-7,257	-6,142	-5,977	-5,789	-5,194	-4,336	-3,285	-2,234	-1,183	-644	285	10,434	

Table O.1-17 Financial Analysis: San Vincent ARC: Region-VII

Item	Prod Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Net Production Value (1,000 pesos)																											
Crop Benefit	467	-1,298	-1,683	-3,202	-3,833	-4,126	-4,823	-5,504	-5,953	-6,206	-6,443	-6,630	-6,714	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	-6,490	
Livestock & Others	0	-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV=0	1,140	1,018	2,801	6,194	6,601	6,771	7,247	7,375	7,550	7,850	8,017	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	8,093	
Cash Flow less project costs	923	1,432	3,756	7,383	7,924	8,324	9,046	9,338	9,646	9,992	10,238	10,093	10,198	10,093	10,198	10,093	10,198	10,093	10,198	10,093	10,198	10,093	10,198	10,093	10,198	10,093	
Project investment	2,898	14,158	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	23,963	
Annual O&M	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	
Financial cashflow	-2,446	-13,192	-20,680	-4,582	-5,414	-5,826	-8,575	-8,867	-9,534	-9,521	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	-9,787	
NPV 15%																											
	196	-7,901	-19,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	-27,901	

Table O.1-18 Financial Analysis: Marangog ARC: Region-VIII

Item	Prod Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Net Production Value (000 pesos)																											
Crop Benefit	338	-939	-1,207	-2,317	-2,774	-2,966	-3,497	-3,984	-4,308	-4,491	-4,631	-4,798	-4,862	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	-4,697	
Livestock & Others	0	-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV=0	-929	1,188	8,088	8,540	7,002	2,208	2,742	2,910	8,808	8,229	8,613	8,370	8,422	8,463	8,434	8,290	8,077	8,409	8,751	8,501	8,749	8,770	8,659	8,501	8,266	8,014	
NPV=15%	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	
Cash Flow less project costs	-1,096	1,031	7,931	6,333	6,845	2,042	2,585	2,753	8,351	7,772	8,455	8,212	8,465	8,406	8,297	8,133	8,290	8,282	8,594	8,344	8,344	8,344	8,344	8,344	8,344	8,344	
Project investment	3,361	17,446	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	28,189	
Annual O&M	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
Financial cashflow	-4,827	-18,785	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	-26,628	
NPV 15%	125	-4,710	-18,658	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	-26,503	

Table O.1-19 Financial Analysis: Silae ARC: Region-X

Table 3.1-3 Financial Analysis, SIDA, And Region A																											
Items	Prod Area	Net Production Value (000 peso)																									
		Yr 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Crop Benefit	239	712	988	1,421	1,666	1,735	1,857	1,967	1,994	2,021	2,048	2,075	2,102	2,129	2,156	2,183	2,210	2,237	2,264	2,291	2,318	2,345	2,372	2,399	2,426	2,453	
Livestock & Others		0	-19	988	7,147	6,937	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	7,147	
NPV-w/o	130	694	1,086	8,588	8,603	8,882	9,064	9,144	9,224	9,304	9,384	9,464	9,544	9,624	9,704	9,784	9,864	9,944	10,024	10,104	10,184	10,264	10,344	10,424	10,504	10,584	
Cash Flow less project costs	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	
Project Investment	-194	370	1,632	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	8,244	
Annual O&M	1,806	9,378	14,044	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	
Financial cashflow	268	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	
FWR	-2,558	-9,378	-12,770	6,145	6,650	6,244	8,314	8,081	8,209	8,777	9,023	8,943	9,236	10,087	10,369	9,968	9,248	9,026	9,372	9,117	9,162	8,610	9,295	9,117	13,681	13,681	
NPV (5%)	15,890																										

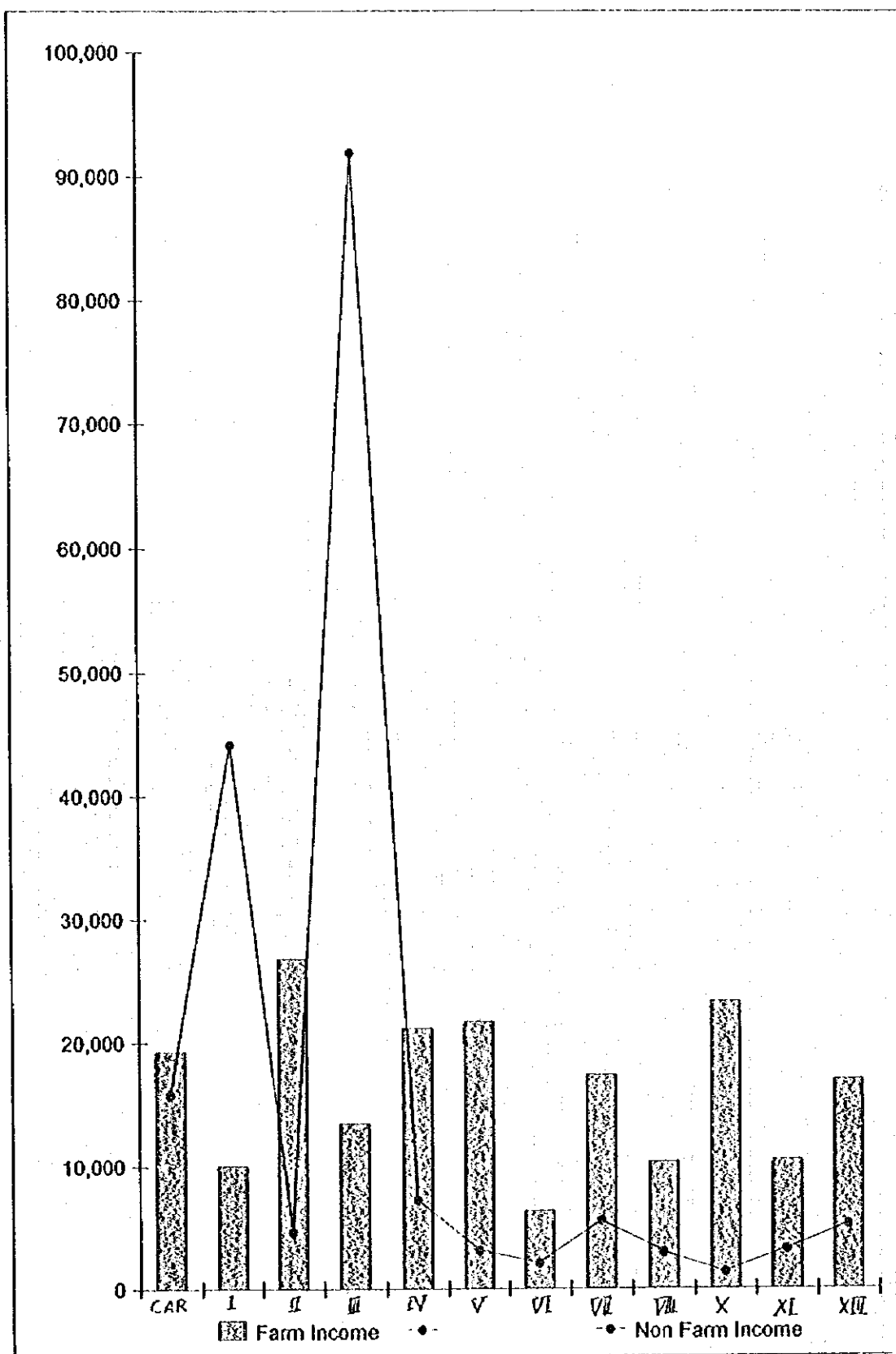
Table O.1-20 Financial Analysis: Kipali ARC: Region-XI

Items	Prod Area (ha)	Year 1	Net Production Value (000 peso)																								
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Crop Benefit	335	-931	1,196	2,296	2,749	2,959	3,466	3,947	4,289	4,450	4,620	4,795	4,817	4,654	4,854	5,460	5,673	5,270	4,691	4,691	4,691	4,691	4,691	4,691	4,691	4,691	4,691
Livestock & Others		0	-19	771	2,264	4,814	3,709	2,753	2,892	4,016	3,768	3,915	3,937	3,959	3,766	3,944	3,766	3,758	3,675	4,016	3,766	3,815	3,435	3,925	3,766	4,016	3,766
NPV-w/o		-931	1,177	3,067	6,515	6,975	7,174	7,706	8,471	8,467	8,570	8,570	8,570	8,570	8,420	9,404	9,240	9,029	8,266	8,708	8,458	8,506	8,127	8,616	8,458	8,506	8,127
Cash Flow less project costs		158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158
Project Investment		-1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047
Annual O&M		2,245	13,602	23,033	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970
Financial cashflow		-4,324	-13,014	-20,575	3,935	4,405	5,617	6,997	7,262	7,858	7,778	7,961	7,717	7,970	7,311	8,295	8,031	8,420	7,752	8,099	7,849	7,807	7,518	8,007	7,849	7,807	7,518
FWR *		158																									
NPV (5%)		212																									

Table O.1-21 Financial Analysis: Mat-IARC: Region-XIII

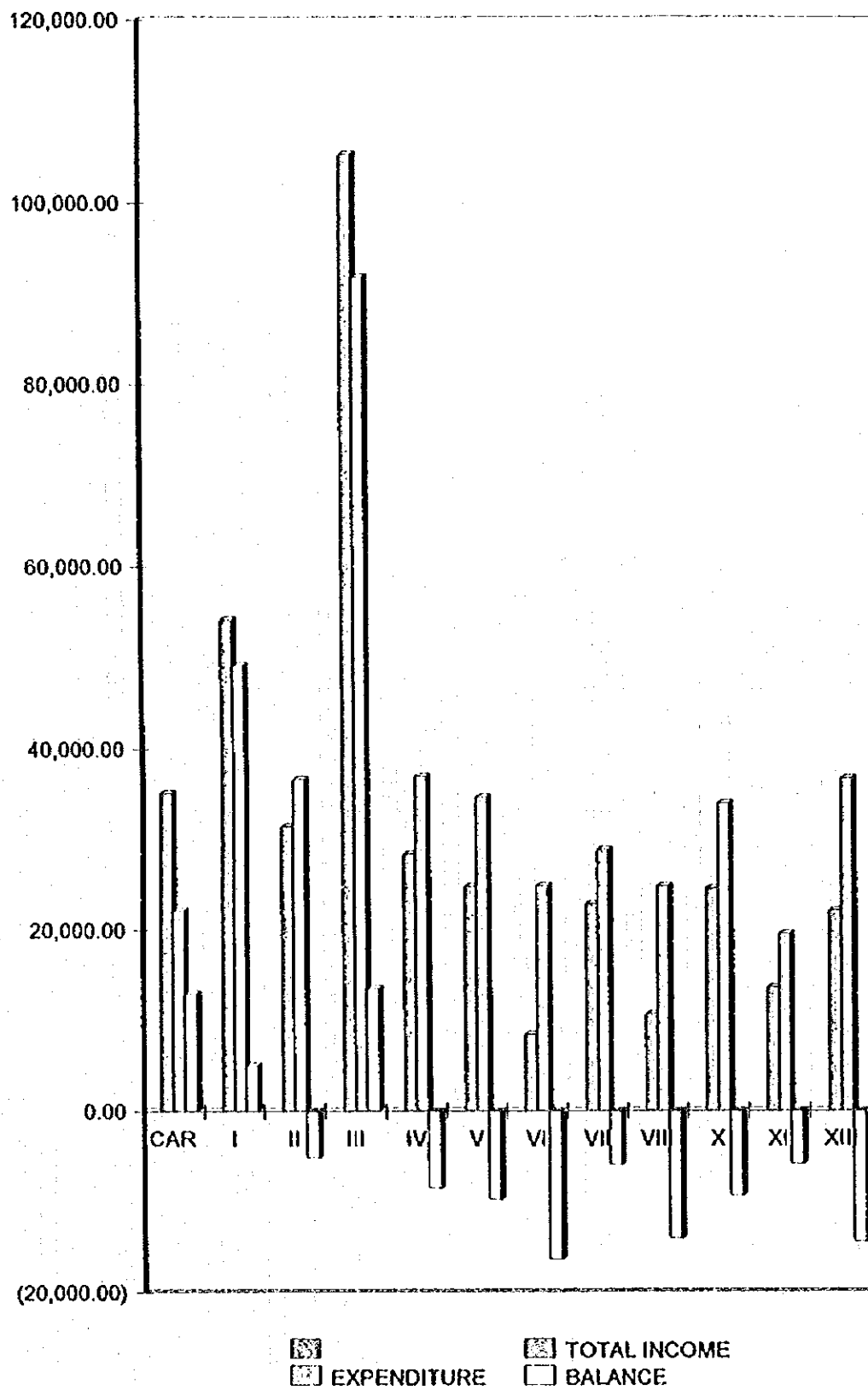
Items	Prod. Area (ha)	Year 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Net Production Value (000 peso)																										
Crop Benefit	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock & Others		0	-9	786	1882	2008	1854	1879	1801	2008	1882	1907	1734	1942	1883	1979	1883	1879	1837	2008	1843	1907	1718	1962	1883	2008
NPV-w/o		0	-9	786	1882	2008	1854	1879	1801	2008	1882	1907	1734	1942	1883	1979	1883	1879	1837	2008	1843	1907	1718	1962	1883	2008
Cash Flow less project costs		95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Project Investment		-234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
Annual O&M		120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Financial cashflow		-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95	-95
FWR		158																								
NPV (5%)		-1,314																								

FIGURE O.1-1 FARM AND NON-FARM INCOME PER HOUSEHOLD BY REGION



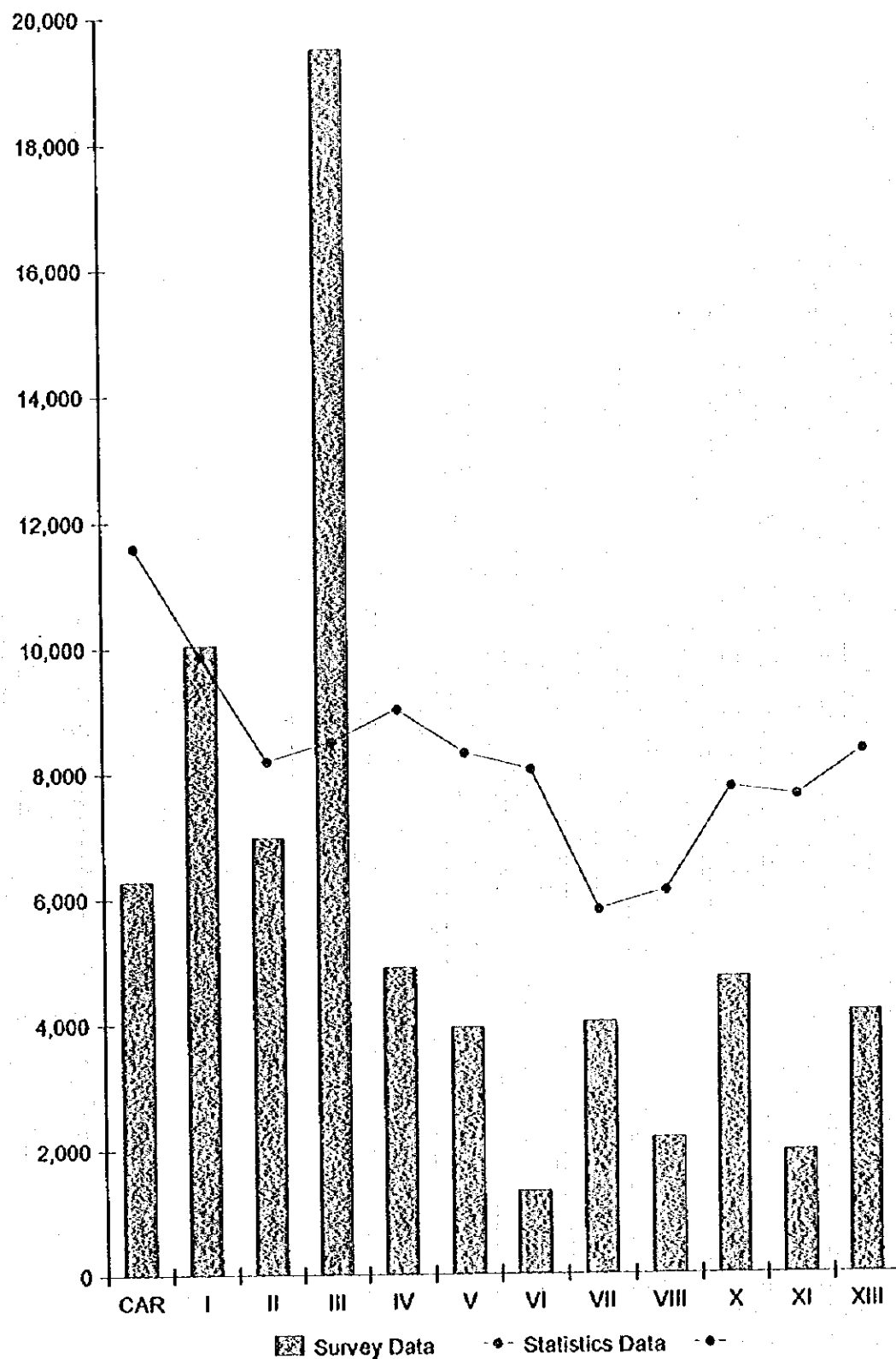
(Source: Result from Selected Sample Survey)

FIGURE O.1-2 COMPARISON WITH ANNUAL INCOME AND EXPENDITURE BY REGION



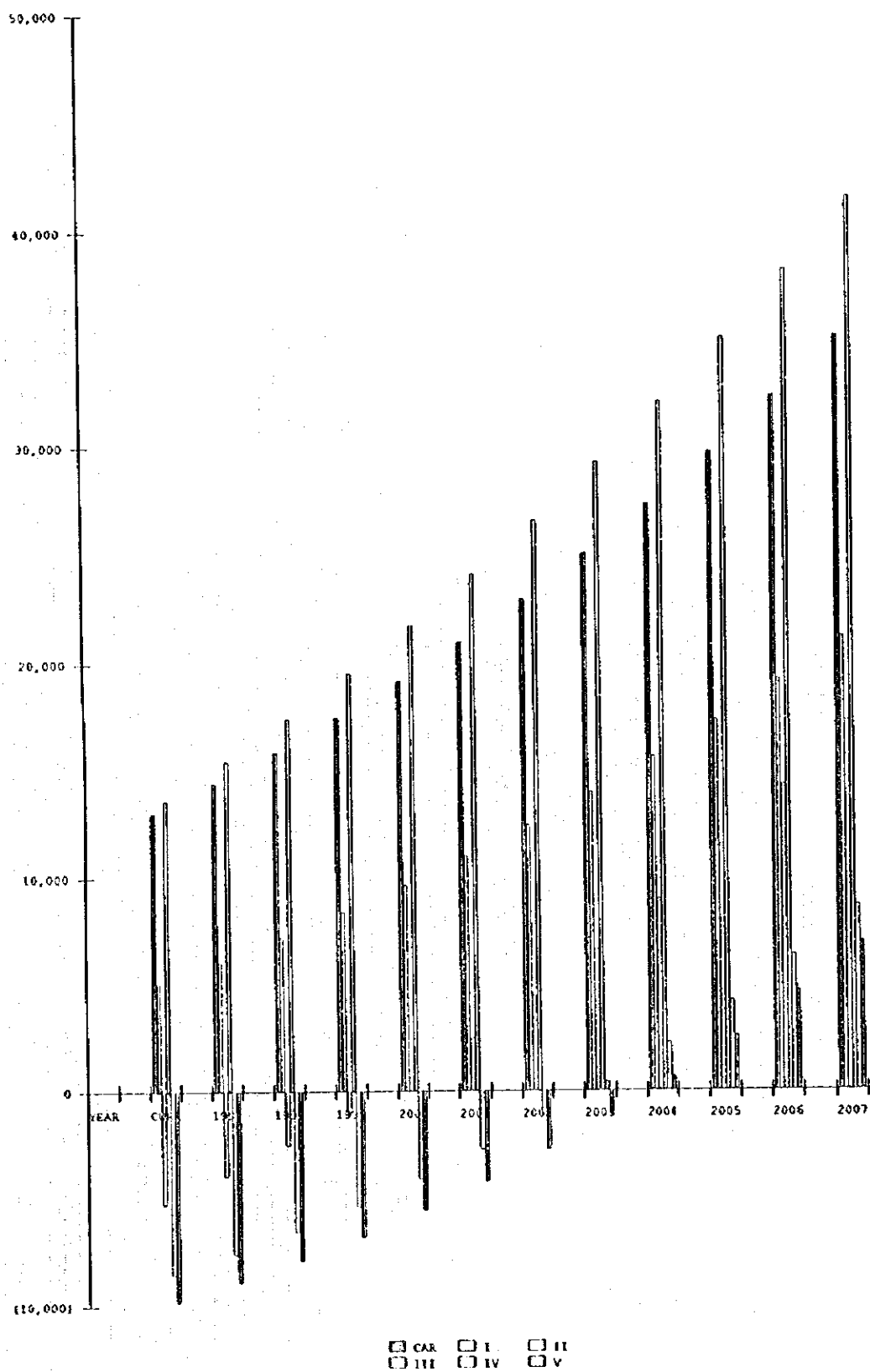
(Source; Result from Selected Sample Survey)

**FIGURE O.1-3 COMPARISON WITH ANNUAL PER CAPITA POVERTY THRESHOLD
BY REGION**



(Source: Result from Selected Sample Survey & "Poverty Statistics", N. S. C. B., Nov. 1995)

FIGURE O.1-4 TARGET OF FARM BALANCE



(Source: Result from Selected Sample Survey Formulation)

Table O-2-1 Financial Model for Irrigation Dry-Season Paddy Production (Paddy 3) at Sappaac (One Hectare)

	YEAR				
	1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)					
1 Seedbed preparation/care of seedling	3	3	3	3	3
2 Plowing/harrowing/levelling	18	18	18	18	18
3 Transplanting	28	28	28	28	28
4 Weeding	12	12	12	12	12
5 Fertilizing	3	3	3	3	3
6 Spraying	3	3	3	3	3
7 Water management/drainage	4	4	4	4	4
8 Harvesting/threshing/hauling	24	24	24	24	24
9 Drying/bagging/stocking	3	3	3	3	3
Total mand	22	22	22	22	22
Total md	76	76	76	76	76
B. INVESTMENT (peso)					
	% Recurrent	Recurrent Cost	Peso		
1. Capital Costs (20% Recurrent)	0.20	15,545	3,109		
			3,109		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Zinc Phosphate (kg)	15	15	15	15	15
Basudin 400EC (ltr)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
2-4D Amine AC (ltr)	2	2	2	2	2
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	7.80				
14-14-14	6.85				
Zinc Phosphate (kg)	6.67				
Basudin 400EC (ltr)	280.41				
Furadan 3G (kg)	60.09				
2-4D Amine AC (ltr)	468.88				
Wages (peso/mand/md)					
Hired labor/mand	140.00				
Hired labor/md	70.00				
Hired threshing machine	0.05	of produce value			
Costs (peso)					
Seed	425	425	425	425	425
Urea	780	780	780	780	780
14-14-14	1,028	1,028	1,028	1,028	1,028
Zinc Phosphate	100	100	100	100	100
Basudin 400EC	280	280	280	280	280
Furadan 3G	2,043	2,043	2,043	2,043	2,043
2-4D Amine AC	934	934	934	934	934
Labor	8,400	8,400	8,400	8,400	8,400
Hired Threshing Machine	1,485	1,620	1,710	1,845	1,980
Total Recurrent Costs	15,060	15,185	15,275	15,410	15,545
D. RETURNS					
Production (ton/ha)	3.3	3.6	3.8	4.1	4.4
Revenue (peso) at 9,000 Peso/ton	29,700	32,400	34,200	36,900	39,600
Cash Flow Projections					
<u>Inflow</u>					
Sales	29,700	32,400	34,200	36,900	39,600
Farmer Contribution (Half of labor costs)	4,200	4,200	4,200	4,200	4,200
Loan					
- Investment	3,109				
- Working capital	15,650	0	0	0	0
	52,059	36,600	38,400	41,100	43,800
<u>Outflow</u>					
Investment	3,109				
Recurrent costs	15,060	15,185	15,275	15,410	15,545
	18,159	15,185	15,275	15,410	15,545
Net income before debt	33,900	21,415	23,125	25,690	28,255
Loan outstanding	18,159	14,527	10,895	7,263	3,632
Interest due at 20 % 0.2	3,632	2,905	2,179	1,453	726
<u>Debt service</u>					
Interest	3,632	2,905	2,179	1,453	726
Repayment	3,632	3,632	3,632	3,632	3,632
(Yrs amortized 5)					
Net income after debt service	26,637	14,878	17,315	20,606	23,897
Cumulative net income	26,637	41,515	58,829	82,121	106,018
Mandays of family labor	38	38	38	38	38
Cumulative mandays	38	76	114	152	190
Average net return/manday	701	546	515	408	435
Financial analysis					
Revenue from sales	29,700	32,400	34,200	36,900	39,600
Cash outflow	18,159	15,185	15,275	15,410	15,545
Net cash flow	11,541	17,215	18,925	21,490	24,055
FIRR =	> 50 %				

Table O.2-2 Financial Model for Rainfed Paddy (Paddy-5) Production at Sappaac
(One Hectare)

		YEAR				
		1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)						
1. Seedbed preparation/care of seedling		3	3	3	3	3
2. Plowing/harrowing/levelling		18	18	18	18	18
3. Transplanting		28	28	28	28	28
4. Weeding		12	12	12	12	12
5. Fertilizing		3	3	3	3	3
6. Spraying		3	3	3	3	3
7. Water management/drainage		4	4	4	4	4
8. Harvesting/threshing/hauling		24	24	24	24	24
9. Drying/bagging/stocking		3	3	3	3	3
Total mand		22	22	22	22	22
Total md.		76	76	76	76	76
B. INVESTMENT (peso)						
		Qty	Peso/ unit	Peso		
1. Cultivation tools		1	1,000	1,000		
C. RECURRENT COSTS						
Quantity						
Seed		50	50	50	50	50
Urea (kg)		100	100	100	100	100
14-14-14 (kg)		150	150	150	150	150
Zinc Phosphate (kg)		15	15	15	15	15
Basudin 400EC (ltr)		1	1	1	1	1
Furadan 3G (kg)		34	34	34	34	34
2-4D Amine AC (ltr)		2	2	2	2	2
Prices (peso/unit)						
Seed	8.50					
Urea (kg)	7.80					
14-14-14	6.85					
Zinc Phosphate (kg)	6.67					
Basudin 400EC (ltr)	280.41					
Furadan 3G (kg)	60.09					
2-4D Amine AC (ltr)	466.88					
Wages (peso/mod/md)						
Hired labor/mod	140.00					
Hired labor/md	70.00					
Hired threshing machine	0.05	of produce value				
Costs (peso)						
Seed		425	425	425	425	425
Urea		780	780	780	780	780
14-14-14		1,028	1,028	1,028	1,028	1,028
Zinc Phosphate		100	100	100	100	100
Basudin 400EC		280	280	280	280	280
Furadan 3G		2,043	2,043	2,043	2,043	2,043
2-4D Amine AC		934	934	934	934	934
Labor		8,400	8,400	8,400	8,400	8,400
Hired Threshing Machine		1,035	1,125	1,215	1,305	1,395
Total Recurrent Costs		14,600	14,690	14,780	14,870	14,960
D. RETURNS						
Production (ton/ha)		2.3	2.5	2.7	2.9	3.1
Revenue(peso) at 9,000.00 Pesoton		20,700	22,500	24,300	26,100	27,900
Cash Flow Projections						
Inflow						
Sales		20,700	22,500	24,300	26,100	27,900
Farmer Contribution (Half of labor costs)		4,200	4,200	4,200	4,200	4,200
Loan						
- Investment		1,000				
- Working capital		14,600	0	0	0	0
		40,500	26,700	28,500	30,300	32,100
Outflow						
Investment		1,000				
Recurrent costs		14,600	14,690	14,780	14,870	14,960
		15,600	14,690	14,780	14,870	14,960
Net income before debt		24,900	12,010	13,720	15,430	17,140
Loan outstanding		15,600	12,480	9,380	6,240	3,120
Interest due at 20 %	0.2	3,120	2,496	1,872	1,248	624
Debt service						
Interest		3,120	2,496	1,872	1,248	624
Repayment		3,120	3,120	3,120	3,120	3,120
(Yrs amortized 5)						
Net Income after debt service		18,660	6,394	8,728	11,062	13,396
Cumulative net income		18,660	25,056	33,783	38,117	47,179
Mandays of family labor		38	38	38	38	38
Cumulative mandays		38	76	114	152	190
Average net return/manday		491	330	296	238	248
Financial analysis						
Revenue from sales		20,700	22,500	24,300	26,100	27,900
Cash outflow		15,600	14,690	14,780	14,870	14,960
Net cash flow		5,100	7,810	9,520	11,230	12,940
FIRR *	> 50 %					

Table O.2-3 Financial Model for Irrigated paddy Production: Colcaville
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOR REQUIREMENT (man-day)					
1. Seedbed preparation/care of seedling	3	3	3	3	3
2. Plowing/harrowing/levelling	18	18	18	18	18
3. Transplanting	28	28	28	28	28
4. Weeding	12	12	12	12	12
5. Fertilizing	3	3	3	3	3
6. Spraying	3	3	3	3	3
7. Irrigation/drainage	5	5	5	5	5
8. Harvesting/threshing/hauling	26	26	26	26	26
9. Drying/bagging/stocking	4	4	4	4	4
Total md	22	22	22	22	22
Total md	80	80	80	80	80
B. INVESTMENT (peso)					
	%	Recurrent Costs	Capital Costs		
1. Capital costs	20.0	16,344	3,269		
			3,269		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
16-20-0 (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Zinc Phosphate (kg)	15	15	15	15	15
Basudin 400EC (lb)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
2-4D Amine AC (lb)	2	2	2	2	2
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	7.50				
16-20-0 (kg)	6.80				
14-14-14 (kg)	6.90				
Basudin 400EC (lb)	282.48				
Furadan 3G (kg)	60.00				
2-4D Amine AC (lb)	483.75				
Wages (peso/md/md)					
Hired labor/md	120.00				
Hired labor/md	60.00				
Costs (peso)					
Seed	425	425	425	425	425
Urea	750	750	750	750	750
16-20-0	680	680	680	680	680
14-14-14	1,035	1,035	1,035	1,035	1,035
Basudin 400EC	282	282	282	282	282
Furadan 3G	2,040	2,040	2,040	2,040	2,040
2-4D Amine AC	968	968	968	968	968
Labor	7,440	7,440	7,440	7,440	7,440
Misc (20% of all costs)	2,724	2,724	2,724	2,724	2,724
Total Recurrent Costs	16,344	16,344	16,344	16,344	16,344
D. RETURNS					
Production (ton/ha)	4.0	4.4	4.8	5.1	5.5
Revenue (peso) at 7700 Pesoton	30,800	33,880	36,960	39,270	42,350
Cash Flow Projections					
Inflow					
Sales	30,800	33,880	36,960	39,270	42,350
Farmer Contribution (Half of labor costs)	3,720	3,720	3,720	3,720	3,720
Loan					
- Investment	3,269	0	0	0	0
- Working capital	16,344	0	0	0	0
	54,133	37,600	40,680	42,990	46,070
Outflow					
Investment	3,269				
Recurrent costs	16,344	16,344	16,344	16,344	16,344
	19,613	16,344	16,344	16,344	16,344
Net income before debt	34,520	21,256	24,336	26,646	29,726
Loan outstanding	19,613	15,690	11,768	7,846	3,924
Interest due (20%)	3,923	3,138	2,354	1,569	785
Debt service					
Interest	3,923	3,138	2,353	1,569	784
Repayment	3,923	3,923	3,923	3,923	3,923
Net income after debt service	26,674	14,195	18,060	21,154	25,019
Cumulative net income	26,674	40,870	58,930	82,024	83,950
Mandays of family labor	51	51	51	51	51
Cumulative mandays	51	102	153	204	255
Average net return/manday	523	401	385	304	329
Financial analysis					
Revenue from sales	30,800	33,880	36,960	39,270	42,350
Cash outflow	19,613	16,344	16,344	16,344	16,344
Net cash flow	11,187	17,536	20,616	22,926	26,006
FIRR =	> 50 %				

Table O-2-4 Financial Model for Irrigation-Wet Seasoned Paddy Production at Cofcaville
(One Hectare)

	YEAR				
	1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)					
1. Seedbed preparation/care of seedling	3	3	3	3	3
2. Plowing/harrowing/levelling	18	18	18	18	18
3. Transplanting	28	28	28	28	28
4. Weeding	12	12	12	12	12
5. Fertilizing	3	3	3	3	3
6. Spraying	3	3	3	3	3
7. Water management/drainage	4	4	4	4	4
8. Harvesting/threshing/hauling	24	24	24	24	24
9. Drying/bagging/stocking	3	3	3	3	3
Total mand	22	22	22	22	22
Total md	76	76	76	76	76
B. INVESTMENT (peso)					
1. Cultivation tools	Qty 1	Peso/Unit 1,000	Peso 1,000		
			1,000		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Zinc Phosphate (kg)	15	15	15	15	15
Basudin 400EC (lb)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
2-4D Amine AC (lb)	2	2	2	2	2
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	7.50				
14-14-14	6.90				
Zinc Phosphate (kg)	6.67				
Basudin 400EC (lb)	282.48				
Furadan 3G (kg)	60.00				
2-4D Amine AC (lb)	483.75				
Wages (peso/mand/md)					
Hired labor/mand	120.00				
Hired labor/md	50.00				
Hired threshing machine	0.06 of produce value				
Costs (peso)					
Seed	425	425	425	425	425
Urea	750	750	750	750	750
14-14-14	1,035	1,035	1,035	1,035	1,035
Zinc Phosphate	100	100	100	100	100
Basudin 400EC	282	282	282	282	282
Furadan 3G	2,040	2,040	2,040	2,040	2,040
2-4D Amine AC	968	968	968	968	968
Labor	6,440	6,440	6,440	6,440	6,440
Hired Threshing Machine	1,386	1,502	1,617	1,771	1,887
Total Recurrent Costs	13,001	13,117	13,232	13,386	13,502
D. RETURNS					
Production (ton/ha)	3.6	3.9	4.2	4.6	4.9
Revenue (peso) at 7,700 Pesoton	27,720	30,030	32,340	35,420	37,730
Cash Flow Projections					
Inflow					
Sales	27,720	30,030	32,340	35,420	37,730
Farmer Contribution (Half of labor costs)	3,220	3,220	3,220	3,220	3,220
Loan					
- Investment	1,000				
- Working capital	13,001	0	0	0	0
	44,941	33,250	35,560	38,640	40,950
Outflow					
Investment	1,000				
Recurrent costs	13,001	13,117	13,232	13,386	13,502
	14,001	13,117	13,232	13,386	13,502
Net income before debt	30,940	20,133	22,328	25,254	27,448
Loan outstanding	14,001	11,201	8,401	5,601	2,801
Interest due (14 %)/	1,960	1,568	1,176	784	392
Debt service					
Interest	1,960	1,568	1,176	784	392
Repayment	2,800	2,800	2,800	2,800	2,801
1/ maximum rate affordable					
Net income after debt service	26,180	15,765	18,352	21,670	24,255
Cumulative net income	26,180	41,945	60,297	83,615	107,870
Mandays of family labor	38	38	38	38	38
Cumulative mandays	38	76	114	152	190
Average net return/manday	689	552	529	419	445
Financial analysis					
Revenue from sales	27,720	30,030	32,340	35,420	37,730
Cash outflow	14,001	13,117	13,232	13,386	13,502
Net cash flow	13,719	16,913	19,108	22,034	24,228
FIRR =	> 50 %				

Table O.2-5 Financial Model for Irrigation Dry-Season Paddy Production: Marangog
(One Hectare)

	YEAR				
	1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)					
1. Seedbed preparation/care of seedling	3	3	3	3	3
2. Plowing/harrowing/levelling	18	18	18	18	18
3. Transplanting	28	28	28	28	28
4. Weeding	12	12	12	12	12
5. Fertilizing	3	3	3	3	3
6. Spraying	3	3	3	3	3
7. Water management/drainage	4	4	4	4	4
8. Harvesting/threshing/hauling	24	24	24	24	24
9. Drying/bagging/stocking	3	3	3	3	3
Total md	22	22	22	22	22
Total md	76	76	76	76	76
B. INVESTMENT (peso)					
Recurrent					
1. Capital Costs	%	Cost	Peso		
	20	14,272	2,858		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Zinc Phosphate (kg)	15	15	15	15	15
Basudin 400EC (ltr)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
2-4D Amine AC (ltr)	2	2	2	2	2
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	8.20				
14-14-14	6.80				
Zinc Phosphate (kg)	6.67				
Basudin 400EC (ltr)	278.88				
Furadan 3G (kg)	59.65				
2-4D Amine AC (ltr)	450.00				
Wages (peso/mad/md)					
Hired labor/mad	120.00				
Hired labor/md	60.00				
Hired threshing machine	0.05				
of produce value					
Costs (peso)					
Seed	425	425	425	425	425
Urea	820	820	820	820	820
14-14-14	1,020	1,020	1,020	1,020	1,020
Zinc Phosphate	100	100	100	100	100
Basudin 400EC	279	279	279	279	279
Furadan 3G	2,028	2,028	2,028	2,028	2,028
2-4D Amine AC	900	900	900	900	900
Labor	7,200	7,200	7,200	7,200	7,200
Hired Threshing Machine	1,444	1,575	1,663	1,794	1,925
Total Recurrent Costs	13,791	13,922	14,010	14,141	14,272
D. RETURNS					
Production (ton/ha)	3.3	3.6	3.8	4.1	4.4
Revenue (peso) at 8,750 Peso/ton	28,875	31,500	33,250	35,875	38,500
Cash Flow Projections					
Inflow					
Sales	28,875	31,500	33,250	35,875	38,500
Farmer Contribution (Half of labor costs)	3,600	3,600	3,600	3,600	3,600
Loan					
- Investment	2,858				
- Working capital	13,791	0	0	0	0
	49,124	35,100	36,850	39,475	42,100
Outflow					
Investment	2,858				
Recurrent costs	13,791	13,922	14,010	14,141	14,272
	16,649	13,922	14,010	14,141	14,272
Net income before debt	32,475	21,178	22,840	25,334	27,828
Loan outstanding	16,649	13,319	9,889	6,656	3,329
Interest due (20%)	3,330	2,664	1,998	1,332	666
Debt service					
Interest	3,330	2,664	1,998	1,332	666
Repayment	3,330	3,330	3,330	3,330	3,330
Net income after debt service	25,815	15,184	17,512	20,672	23,832
Cumulative net income	25,815	40,999	58,511	61,671	82,343
Mandays of family labor	38	38	38	38	38
Cumulative mandays	38	76	114	152	190
Average net return/manday	679	539	513	406	433
Financial analysis					
Revenue from sales	28,875	31,500	33,250	35,875	38,500
Cash outflow	16,649	13,922	14,010	14,141	14,272
Net cash flow	12,226	17,578	19,240	21,734	24,228
FIRR =	> 50 %				

Table O.2-6 Financial Model for Rainfed Paddy Production: Colfocville
(One Hectare)

		YEAR				
		1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)						
1. Seedbed preparation/care of seedling		3	3	3	3	3
2. Plowing/harrowing/levelling		18	18	18	18	18
3. Transplanting		28	28	28	28	28
4. Weeding		12	12	12	12	12
5. Fertilizing		3	3	3	3	3
6. Spraying		3	3	3	3	3
7. Water management/drainage		4	4	4	4	4
8. Harvesting/threshing/hauling		24	24	24	24	24
9. Drying/bagging/stocking		3	3	3	3	3
Total mand		22	22	22	22	22
Total md		76	76	76	76	76
B. INVESTMENT (peso)						
		% Recurrent	Recurrent Cost	Peso		
1. Capital Costs		20.00	13,723	2,745		
				2,745		
C. RECURRENT COSTS						
Quantity						
Seed		50	50	50	50	50
Urea (kg)		100	100	100	100	100
14-14-14 (kg)		150	150	150	150	150
Zinc Phosphate (kg)		15	15	15	15	15
Basudin 400EC (ltr)		1	1	1	1	1
Furadan 3G (kg)		34	34	34	34	34
2-4D Amine AC (ltr)		2	2	2	2	2
Prices (peso/unit)						
Seed	8.50					
Urea (kg)	7.50					
14-14-14	6.90					
Zinc Phosphate (kg)	6.67					
Basudin 400EC (ltr)	282.00					
Furadan 3G (kg)	60.00					
2-4D Amine AC (ltr)	424.00					
Wages (peso/mand/md)						
Hired labor/mand	120.00					
Hired labor/md	60.00					
Hired threshing machine	0.05					
		of produce value				
Costs (peso)						
Seed	425	425	425	425	425	
Urea	750	750	750	750	750	
14-14-14	1,035	1,035	1,035	1,035	1,035	
Zinc Phosphate	100	100	100	100	100	
Basudin 400EC	282	282	282	282	282	
Furadan 3G	2,040	2,040	2,040	2,040	2,040	
2-4D Amine AC	968	968	968	968	968	
Labor	7,200	7,200	7,200	7,200	7,200	
Hired Threshing Machine	1,001	1,078	1,155	1,271	1,348	
Total Recurrent Costs	13,376	13,453	13,530	13,646	13,723	
D. RETURNS						
Production (ton/ha)		2.8	2.8	3.0	3.3	3.5
Revenue(peso) at 7,700 Peso/ton		20,020	21,560	23,100	25,410	26,950
Cash Flow Projections						
Inflow						
Sales		20,020	21,560	23,100	25,410	26,950
Farmer Contribution (Half of labor costs)		3,600	3,600	3,600	3,600	3,600
Loan						
- Investment		2,745				
- Working capital		13,376	0	0	0	0
		39,741	25,160	26,700	29,010	30,550
Outflow						
Investment		2,745				
Recurrent costs		13,376	13,453	13,530	13,646	13,723
		16,121	13,453	13,530	13,646	13,723
Net income before debt		23,620	11,707	13,170	15,364	16,827
Loan outstanding		16,121	12,897	9,673	5,443	2,424
Interest due (20%)		3,224	2,579	1,934	1,289	645
Debt service						
Interest		3,224	2,579	2,934	1,000	645
Repayment		3,224	3,224	3,224	3,224	3,224
Net Income after debt service		17,172	5,904	7,012	11,050	12,958
Cumulative net income		17,172	23,076	30,088	34,126	43,045
Mandays of family labor		38	38	38	38	38
Cumulative mandays		38	76	114	152	190
Average net return/manday		452	304	264	225	227
Financial analysis						
Revenue from sales		20,020	21,560	23,100	25,410	26,950
Cash outflow		16,121	13,453	13,530	13,646	13,723
Net cash flow		3,899	8,107	9,570	11,764	13,227
FIRR *		>50 %				

Table O.2-7

Financial Model for Paddy-1 Production: Silae
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Seedbed preparation/care of seedling	3	3	3	3	3
2. Plowing/harrowing/levelling	18	18	18	18	18
3. Transplanting	28	28	28	28	28
4. Weeding	12	12	12	12	12
5. Fertilizing	3	3	3	3	3
6. Spraying	3	3	3	3	3
7. Irrigation/drainage	5	5	5	5	5
8. Harvesting/threshing/hauling	26	26	26	26	26
9. Drying/bagging/stocking	4	4	4	4	4
Total mand	22	22	22	22	22
Total ind	80	80	80	80	80
B. INVESTMENT (peso)					
1. Capital costs	%	Recurrent Costs	Capital Costs		
	20	16,609	3,322		
			3,322		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
16-20-0 (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Basudin 400EC (lb)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
2-4D Amine AC (lb)	2	2	2	2	2
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	7.50				
16-20-0 (kg)	6.60				
14-14-14 (kg)	6.80				
Basudin 400EC (lb)	278.36				
Furadan 3G (kg)	59.65				
Wages (peso/mand/ind)					
Hired labor/mand	140.00				
Hired labor/ind	70.00				
Costs (peso)					
Seed	425	425	425	425	425
Urea	750	750	750	750	750
16-20-0	660	660	660	660	660
14-14-14	1,020	1,020	1,020	1,020	1,020
Basudin 400EC	278	278	278	278	278
Furadan 3G	2,028	2,028	2,028	2,028	2,028
Labor	8,680	8,680	8,680	8,680	8,680
Misc (20% of all costs)	2,768	2,768	2,768	2,768	2,768
Total Recurrent Costs	16,609	16,609	16,609	16,609	16,609
D. RETURNS					
Production (ton/ha)	4.0	4.4	4.8	5.1	5.5
Revenue (peso) at 7600 Pesos/ton	30,400	33,440	36,480	38,760	41,800
Cash Flow Projections					
Inflow					
Sales	30,400	33,440	36,480	38,760	41,800
Farmer Contribution (Half of labor costs)	4,340	4,340	4,340	4,340	4,340
Loan	3,322				
- Investment	16,609	0	0	0	0
- Working capital	54,871	37,780	40,820	43,100	46,140
Outflow					
Investment	3,322				
Recurrent costs	16,609	16,609	16,609	16,609	16,609
	19,931	16,609	16,609	16,609	16,609
Net income before debt	34,740	21,171	24,211	28,491	29,531
Loan outstanding	19,931	15,945	11,959	7,973	3,986
Interest due (20%)	3,986	3,189	2,392	1,595	797
Debt service					
Interest	3,986	3,189	2,392	1,595	797
Repayment	3,986	3,986	3,986	3,986	3,986
Net income after debt service	26,768	13,956	17,832	20,909	24,747
Cumulative net income	26,768	40,763	58,595	61,872	83,342
Mandays of family labor	51	51	51	51	51
Cumulative mandays	51	102	153	204	255
Average net return/manday	525	400	383	302	327
Financial analysis					
Revenue from sales	30,400	33,440	36,480	38,760	41,800
Cash outflow	19,931	16,609	16,609	16,609	16,609
Net cash flow	10,469	18,831	19,871	22,151	25,191
FIRR =	>50 %				

Table O.2-8 Financial Model for Paddy-2 Production: Silac
(One Hectare)

	YEAR				
	1	2	3	4	5
A. LABOR REQUIREMENT (man-day)					
1. Seedbed preparation/care of seedling	3	3	3	3	3
2. Plowing/harrowing/levelling	18	18	18	18	18
3. Transplanting	28	28	28	28	28
4. Weeding	12	12	12	12	12
5. Fertilizing	3	3	3	3	3
6. Spraying	3	3	3	3	3
7. Water management/drainage	4	4	4	4	4
8. Harvesting/threshing/hauling	24	24	24	24	24
9. Drying/bagging/stocking	3	3	3	3	3
Total md	22	22	22	22	22
Total md	76	76	76	76	76
B. INVESTMENT (peso)					
1. Cultivation tools	Qty 1	Peso/unit 1,000	Peso 1,000		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Zinc Phosphate (kg)	15	15	15	15	15
Basudin 400EC (ltr)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	7.50				
14-14-14	6.80				
Zinc Phosphate (kg)	6.67				
Basudin 400EC (ltr)	278.36				
Furadan 3G (kg)	59.65				
Wages (peso/md/md)					
Hired labor/md	140.00				
Hired labor/md	70.00				
Hired threshing machine	0.05				
Costs (peso)					
Seed	425	425	425	425	425
Urea	750	750	750	750	750
14-14-14	1,020	1,020	1,020	1,020	1,020
Zinc Phosphate	100	100	100	100	100
Basudin 400EC	278	278	278	278	278
Furadan 3G	2,028	2,028	2,028	2,028	2,028
Labor	8,400	8,400	8,400	8,400	8,400
Hired Threshing Machine	1,368	1,482	1,596	1,748	1,862
Total Recurrent Costs	13,945	14,059	14,173	14,325	14,439
D. RETURNS					
Production (ton/ha)	3.6	3.9	4.2	4.6	4.9
Revenue(peso) at 7,600 Pesoton	27,360	29,640	31,920	34,960	37,240
Cash Flow Projections					
Inflow					
Sales	27,360	29,640	31,920	34,960	37,240
Farmer Contribution (half of labor costs)	4,200	4,200	4,200	4,200	4,200
Loan					
- Investment	1,000				
- Working capital	13,945	0	0	0	0
	46,505	33,840	36,120	39,160	41,440
Outflow					
Investment	1,000				
Recurrent costs	13,945	14,059	14,173	14,325	14,439
	14,945	14,059	14,173	14,325	14,439
Net income before debt	31,560	19,781	21,947	24,835	27,001
Loan outstanding	14,945	11,956	7,967	5,118	2,250
Interest due (14%)	2,092	1,674	1,255	837	418
Debt service					
Interest	2,092	2,674	1,115	716	315
Repayment	2,989	2,989	2,989	2,989	2,989
Net income after debt service	26,479	14,119	17,844	21,131	23,698
Cumulative net income	26,479	40,568	58,411	61,725	82,139
Mandays of family labor	38	38	38	38	38
Cumulative mandays	38	76	114	152	190
Average net return/manday	697	534	513	406	432
Financial analysis					
Revenue from sales	27,360	29,640	31,920	34,960	37,240
Cash outflow	14,945	14,059	14,173	14,325	14,439
Net cash flow	12,415	15,581	17,747	20,635	22,801
FIRR =	> 50 %				

Table O.2-9 Financial Model for Paddy-5 Production: Marangog
(One Hectare)

	YEAR				
	1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)					
1. Seedbed preparation/care of seedling	3	3	3	3	3
2. Plowing/harrowing/levelling	18	18	18	18	18
3. Transplanting	28	28	28	28	28
4. Weeding	12	12	12	12	12
5. Fertilizing	3	3	3	3	3
6. Spraying	3	3	3	3	3
7. Water management/drainage	4	4	4	4	4
8. Harvesting/threshing/hauling	24	24	24	24	24
9. Drying/bagging/stocking	3	3	3	3	3
Total mand	22	22	22	22	22
Total md	76	76	76	76	76
B. INVESTMENT (peso)					
1. Cultivation tools	Qty 1	Peso/unit 1,000	Peso 1,000		
C. RECURRENT COSTS					
Quantity					
Seed	50	50	50	50	50
Urea (kg)	100	100	100	100	100
14-14-14 (kg)	150	150	150	150	150
Zinc Phosphate (kg)	15	15	15	15	15
Basudin 400EC (ltr)	1	1	1	1	1
Furadan 3G (kg)	34	34	34	34	34
2-4D Amine AC (lb)	2	2	2	2	2
Prices (peso/unit)					
Seed	8.50				
Urea (kg)	8.20				
14-14-14	6.80				
Zinc Phosphate (kg)	6.67				
Basudin 400EC (ltr)	278.36				
Furadan 3G (kg)	59.65				
2-4D Amine AC (lb)	450.09				
Wages (peso/md/ind)					
Hired labor/md	120.00				
Hired labor/ind	60.00				
Hired threshing machine	0.05	of produce value			
Costs (peso)					
Seed	425	425	425	425	425
Urea	820	820	820	820	820
14-14-14	1,020	1,020	1,020	1,020	1,020
Zinc Phosphate	100	100	100	100	100
Basudin 400EC	278	278	278	278	278
Furadan 3G	2,028	2,028	2,028	2,028	2,028
2-4D Amine AC	900	900	900	900	900
Labor	7,200	7,200	7,200	7,200	7,200
Hired Threshing Machine	1,008	1,094	1,181	1,269	1,356
Total Recurrent Costs	13,353	13,440	13,528	13,615	13,703
D. RETURNS					
Production (ton/ha)	2.3	2.5	2.7	2.9	3.1
Revenue (peso) at 8,750.00 Pesoton	20,125	21,875	23,625	25,375	27,125
Cash Flow Projections					
Inflow					
Sales	20,125	21,875	23,625	25,375	27,125
Farmer Contribution (Half of labor costs)	3,600	3,600	3,600	3,600	3,600
Loan					
- Investment	1,000				
- Working capital	13,353	0	0	0	0
	38,078	25,475	27,225	28,975	30,725
Outflow					
Investment	1,000				
Recurrent costs	13,353	13,440	13,528	13,615	13,703
	14,353	13,440	13,528	13,615	13,703
Net income before debt	23,725	12,035	13,697	15,360	17,022
Loan outstanding	14,353	11,482	8,611	5,740	2,869
Interest due (20%)	2,871	2,297	1,723	1,149	574
Debt service					
Interest	2,871	2,297	1,723	1,149	574
Repayment	2,871	2,871	2,871	2,871	2,871
Net income after debt service	17,983	6,867	9,103	11,340	13,577
Cumulative net income	17,983	24,850	33,953	38,189	47,530
Mandays of family labor	38	38	38	38	38
Cumulative mandays	38	76	114	152	190
Average net return/manday	473	327	298	238	250
Financial analysis					
Revenue from sales	20,125	21,875	23,625	25,375	27,125
Cash outflow	14,353	13,440	13,528	13,615	13,703
Net cash flow	5,772	8,435	10,097	11,760	13,422
FIRR =	> 50 %				

Table 0.2-10A: FINANCIAL MODEL FOR CASSAVA PRODUCTION: COPCAIVILLE
One Hectare

One Hectare		Years	1	2	3	4	
A. LABOUR REQUIREMENT (man-day)							
1. Plowing/harrowing/furrowing			21.9	21.9	21.9	21.9	
2. Planting			10	10	10	10	
3. Weeding/cultivation			30	30	30	30	
4. Fertilizing			1.5	2	2	2	
5. Harvesting/postharvest			30.5	30.5	30.5	30.5	
	Total mad		30.4	30.4	30.4	30.4	
	Total md.		63.5	63.5	63.5	63.5	
B: INVESTMENT (peso)			Recurrent cost	Peso			
1. Capital costs			20	9,065	1,817		
C: RECURRENT COSTS			Year 1	Year 2	Year 3	Year 4	
Quantity							
Cuttings			13,333	13,333	13,333	13,333	
16-20-0 (kg)			200	200	200	200	
Prices (peso/unit)							
Cuttings (each)	0.02						
16-20-0 (kg)	6.80						
Wages (peso/mad/md)							
Hired labor/mad	120.00						
Hired labor/md	60.00						
Costs (peso)							
Seedlings			267	267	267	267	
16-20-0 (kg)			1,360	1,360	1,360	1,360	
Labor			7,458	7,458	7,458	7,458	
Total Recurrent Costs			9,085	9,085	9,085	9,085	
D: RETURNS							
Production (ton/ha)			7.00	7.64	8.27	8.91	
Revenue(peso) at 2580 Peso/ton			18,060	19,711	21,337	22,988	
CASH FLOW PROJECTIONS			Year 1	2	3	4	5-25
Inflow							
Sales			18060	19711	21337	22988	24639
Farmer Contribution (Half of labor costs)			3729	3729	3729	3729	3729
Loan							
- Investment			1817				
- Working capital			9085	0	0	0	0
			32691	23440	25066	26717	28368
Outflow							
Investment			1817				
Recurrent costs			9085	9085	9085	9085	9085
			10902	9085	9085	9085	9085
Net income before debt			21789	14356	15981	17632	19283
Loan outstanding			10902	8721	6541	4361	2180
Interest due at 20 %			2180	1744	1308	872	436
Debt service							
Interest			2180	1744	1308	872	436
Repayment			2180	2180	2180	2180	2180
Net Income after debt service			17429	10431	12493	14580	16667
Cumulative net income			17429	27860	40353	42440	57020
Mandays of family labor			46.95	46.95	46.95	46.95	46.95
Cumulative mandays			46.95	93.9	140.85	187.8	234.75
Average net return/manday			371	297	286	226	243
Financial analysis							
Revenue from sales			18060	19711	21337	22988	24639
Cash outflow			10902	9085	9085	9085	9085
Net cash flow			7158	10627	12252	13903	15554

Table O.2-10 Financial Model for White Corn Production: Sappaac
(One Hectare)

		YEAR				
		1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)						
1. Plowing/harrowing/furrowing		22	22	22	22	22
2. Planting (direct seeding)		6	6	6	6	6
3. Weeding/cultivation		10	10	10	10	10
4. Fertilizing		3	3	3	3	3
5. Spraying		3	3	3	3	3
6. Harvesting/hauling/postharvesting		19	19	19	19	19
Total md		29	29	29	29	29
Total md		34	34	34	34	34
B. INVESTMENT (peso)						
		Recurrent				
		%	Costs	Peso		
1. Capital Costs (%Recurrent)	20	0.20	11,541	2,308		
				2,308		
C. RECURRENT COSTS						
Quantity						
Seed		20	20	20	20	20
Urea (kg)		190	190	190	190	190
14-14-14 (kg)		120	120	120	120	120
Decis 2.5EC (ltr)		1	1	1	1	1
Trichogramma (cards)		140	140	140	140	140
2-4D Amine AC (ltr)		2	2	2	2	2
Prices (peso/unit)						
Seed	60.00					
Urea (kg)	7.80					
14-14-14 (kg)	6.85					
Decis 2.5EC (ltr)	453.00					
Trichogramma (cards)	1.50					
2-4D Amine AC (ltr)	466.68					
Wages (peso/md/md)						
Hired labor/md	140.00					
Hired labor/md	70.00					
Costs (peso)						
Seed		1,200	1,200	1,200	1,200	1,200
Urea		1,482	1,482	1,482	1,482	1,482
14-14-14		822	822	822	822	822
Decis 2.5EC (ltr)		453	453	453	453	453
Trichogramma (cards)		210	210	210	210	210
2-4D Amine AC		934	934	934	934	934
Labor		6,440	6,440	6,440	6,440	6,440
Total Recurrent Costs		11,541	11,541	11,541	11,541	11,541
D. RETURNS						
Production (ton/ha)		2.00	2.40	2.60	2.81	3.00
Revenue(peso) at 6,200 Pesoton		12,400	14,880	16,120	17,422	18,600
Cash Flow Projections						
Inflow						
Sales		12,400	14,880	16,120	17,422	18,600
Farmer Contribution (Half of labor costs)		3,220	3,220	3,220	3,220	3,220
Loan						
- Investment		2,308	0			
- Working capital		11,541	0	0	0	0
		29,469	18,100	19,340	20,642	21,820
Outflow						
Investment		2,308				
Recurrent costs		11,541	11,541	11,541	11,541	11,541
		13,849	11,541	11,541	11,541	11,541
Net income before debt		15,620	6,559	7,799	9,101	10,279
Loan outstanding		13,849	11,079	8,309	5,540	2,770
Interest due at 20%	0.2	2,770	2,216	1,662	1,108	554
Debt service						
Interest		2,770	2,216	1,662	1,108	554
Repayment		2,770	2,770	2,770	2,770	2,770
Net income after debt service		10,080	1,574	3,368	5,224	6,956
Cumulative net income		10,080	11,654	15,022	16,878	21,977
Mandays of family labor		17	17	17	17	17
Cumulative mandays		17	34	51	68	85
Average net return/manday		593	343	265	248	259
Financial analysis						
Revenue from sales		12,400	14,880	16,120	17,422	18,600
Cash outflow		13,849	11,541	11,541	11,541	11,541
Net cash flow		-1,449	3,339	4,579	5,881	7,059
FIRR =		> 50 %				

**Table O.2-11 Financial Model for White Corn Production: Marangog
(One Hectare)**

		YEAR				
		1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)						
1	Plowing/harrowing/furrowing	22	22	22	22	22
2	Planting (direct seeding)	6	6	6	6	6
3	Weeding/cultivation	10	10	10	10	10
4	Fertilizing	3	3	3	3	3
5	Spraying	3	3	3	3	3
6	Harvesting/hauling/postharvesting	19	19	19	19	19
	Total mad	29	29	29	29	29
	Total md	34	34	34	34	34
B. INVESTMENT (peso)						
		Recurrent				
		%	Costs	Peso		
1	Capital Costs	20	10,680	2,136		
				2,136		
C. RECURRENT COSTS						
Quantity						
	Seed	20	20	20	20	20
	Urea (kg)	190	190	190	190	190
	14-14-14 (kg)	120	120	120	120	120
	Decis 2 SEC (lb)	1	1	1	1	1
	Trichogramma (cards)	140	140	140	140	140
	2-4D Amine AC (lb)	2	2	2	2	2
Prices (peso/unit)						
	Seed	60.00				
	Urea (kg)	8.20				
	14-14-14 (kg)	6.80				
	Decis 2 SEC (lb)	476.00				
	Trichogramma (cards)	1.50				
	2-4D Amine AC (lb)	450.00				
Wages (peso/mad/md)						
	Hired labor/mad	120.00				
	Hired labor/md	60.00				
Costs (peso)						
	Seed	1,200	1,200	1,200	1,200	1,200
	Urea	1,558	1,558	1,558	1,558	1,558
	14-14-14	816	816	816	816	816
	Decis 2 SEC (lb)	476	476	476	476	476
	Trichogramma (cards)	210	210	210	210	210
	2-4D Amine AC	900	900	900	900	900
	Labor	5,520	5,520	5,520	5,520	5,520
	Total Recurrent Costs	10,680	10,680	10,680	10,680	10,680
D. RETURNS						
	Production (ton/ha)	2.00	2.40	2.60	2.80	3.00
	Revenue(peso) at 7500 Pesoton	15,000	18,000	19,500	21,000	22,500
Cash Flow Projections						
Inflow						
	Sales	15,000	18,000	19,500	21,000	22,500
	Farmer Contribution (Half of labor costs)	2,760	2,760	2,760	2,760	2,760
	Loan					
	- Investment	2,136	0			
	- Working capital	10,680	0	0	0	0
		30,576	20,760	22,260	23,760	25,260
Outflow						
	Investment	2,136				
	Recurrent costs	10,680	10,680	10,680	10,680	10,680
		12,816	10,680	10,680	10,680	10,680
	Net income before debt	17,760	10,080	11,580	13,080	14,580
	Loan outstanding	12,816	10,253	7,690	5,126	2,563
	Interest due	2,563	2,051	1,538	1,025	513
Debt service						
	Interest	2,563	2,051	1,538	1,025	513
	Repayment	2,563	2,563	2,563	2,563	2,563
	Net Income after debt service	12,634	5,406	7,479	9,492	11,504
	Cumulative net income	12,634	18,100	25,578	37,581	51,082
	Mandays of family labor	17	17	17	17	17
	Cumulative mandays	17	34	51	68	85
	Average net return/manday	743	532	502	406	436
Financial analysis						
	Revenue from sales	15,000	18,000	19,500	21,000	22,500
	Cash outflow	12,816	10,680	10,680	10,680	10,680
	Net cash flow	2,184	7,320	8,820	10,320	11,820
FIRR =		> 50 %				

Table O.2-12A: FINANCIAL MODEL FOR YELLOW CORN PRODUCTION: COFCAVILLE
One Hectare

	Years	1	2	3	4	5-25
A: LABOUR REQUIREMENT (man-day)						
1. Plowing/harrowing/furrowing		22	22	22	22	22
2. Planting (direct seeding)		6	6	6	6	6
3. Weeding/cultivation		10	10	10	10	10
4. Fertilizing		3	3	3	3	3
5. Spraying		3	3	3	3	3
6. Harvesting/hauling/postharvesting		19	19	19	19	19
Total mad		29	29	29	29	29
Total md.		34	34	34	34	34
B: INVESTMENT (peso)						
		Recurrent Costs		Peso		
Capital Costs (\$ recurrent costs)		20.00	10,581	2,116		
C: RECURRENT COSTS						
	Year 1	Year 2	Year 3	Year 4	Year 5	
Quantity						
Seed	20	20	20	20	20	
Urea (kg)	190	190	190	190	190	
14-14-14 (kg)	120	120	120	120	120	
Decis 2.5EC (ltr)	1	1	1	1	1	
Trichogramma (cards)	140	140	140	140	140	
2-4D Amine AC (ltr)	2	2	2	2	2	
Prices (peso/unit)						
Seed	60.00					
Urea (kg)	7.50					
14-14-14 (kg)	6.90					
Decis 2.5EC (ltr)	430.00					
Trichogramma (cards)	1.50					
2-4D Amine AC (ltr)	484.00					
Wages (peso/mad/md)						
Hired labor/mad	120.00					
Hired labor/md	60.00					
Costs (peso)						
Seed	1,200	1,200	1,200	1,200	1,200	
Urea	1,425	1,425	1,425	1,425	1,425	
14-14-14	828	828	828	828	828	
Decis 2.5EC (ltr)	430	430	430	430	430	
Trichogramma (cards)	210	210	210	210	210	
2-4D Amine AC	968	968	968	968	968	
Labor	5,520	5,520	5,520	5,520	5,520	
Total Recurrent Costs	10,581	10,581	10,581	10,581	10,581	
D: RETURNS						
Production (ton/ha)	2.16	2.70	2.96	3.24	3.50	
Revenue (peso) at 6090 Peso/ton	13,154	16,443	18,026	19,732	21,315	
CASH FLOW PROJECTIONS						
	Year 1	2	3	4	5-25	
Inflow						
Sales	13154	16443	18026	19732	21315	
Farmer Contribution (Half of labor costs)	2760	2760	2760	2760	2760	
Loan						
- Investment	2116					
- Working capital	10581	0	0	0	0	
	28612	19203	20786	22492	24075	
Outflow						
Investment	2116					
Recurrent costs	10581	10581	10581	10581	10581	
	12697	10581	10581	10581	10581	
Net income before debt	15914	8622	10205	11911	13494	
Loan outstanding	12697	10158	7618	5079	2539	
Interest due at 20 %	1375	1100	825	550	275	
Debt service						
Interest	1375	1100	825	550	275	
Repayment	2539	2539	2539	2539	2539	
Net income after debt service	12000	4983	6841	8821	10680	
Cumulative net income	12000	16983	23823	25804	34503	
Mandays of family labor	17	17	17	17	17	
Cumulative mandays	17	34	51	68	85	
Average net return/manday	706	499	467	379	406	
	591	342	293	247	258	
Financial analysis						
Revenue from sales	13154	16443	18026	19732	21315	
Cash outflow	12697	10581	10581	10581	10581	
Net cash flow	457	5862	7445	9151	10734	

Table O.2-12 Financial Model for Yellow CORN Production: SILAE
One Hectare

One Hectare		Years	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)							
1. Plowing/harrowing/furrowing		22	22	22	22	22	22
2. Planting (direct seeding)		6	6	6	6	6	6
3. Weeding/cultivation		10	10	10	10	10	10
4. Fertilizing		3	3	3	3	3	3
5. Spraying		3	3	3	3	3	3
6. Harvesting/hauling/postharvesting		19	19	19	19	19	19
Total mnd		29	29	29	29	29	29
Total md.		34	34	34	34	34	34
B: INVESTMENT (peso)			Recurrent				
			1	Costs	Peso		
Capital Costs		20	11,421		2,284		
C: RECURRENT COSTS			Year 1	Year 2	Year 3	Year 4	Year 5
Quantity							
Seed		20	20	20	20	20	20
Urea (kg)		190	190	190	190	190	190
14-14-14 (kg)		120	120	120	120	120	120
Decis 2.5EC (ltr)		1	1	1	1	1	1
Trichogramma (cards)		140	140	140	140	140	140
2-4D Amino AC (ltr)		2	2	2	2	2	2
Prices (peso/unit)							
Seed	60.00						
Urea (kg)	7.50						
14-14-14 (kg)	6.80						
Decis 2.5EC (ltr)	430.00						
Trichogramma (cards)	1.50						
2-4D Amino AC (ltr)	450.00						
Wages (peso/md/mnd)							
Hired labor/mnd	140.00						
Hired labor/md	70.00						
Costs (peso)							
Seed		1,200	1,200	1,200	1,200	1,200	1,200
Urea		1,425	1,425	1,425	1,425	1,425	1,425
14-14-14		816	816	816	816	816	816
Decis 2.5EC (ltr)		430	430	430	430	430	430
Trichogramma (cards)		210	210	210	210	210	210
2-4D Amino AC		900	900	900	900	900	900
Labor		6,440	6,440	6,440	6,440	6,440	6,440
Total Recurrent Costs		11,421	11,421	11,421	11,421	11,421	11,421
D: RETURNS							
Production (ton/ha)		2.16	2.70	2.96	3.24	3.50	
Revenue(peso) at 5020 Peso/ton		10,843	13,554	14,859	16,265	17,570	
CASH FLOW PROJECTIONS			Year 1	2	3	4	5-25
Inflow							
Sales		10843.2	13554	14859.2	16264.8	17570	
Farmer Contribution (Half of labor costs)		3220	3220	3220	3220	3220	
Loan							
- Investment	2284						
- Working capital	11421	0	0	0	0		
	27768	16774	18079	19485	20790		
Outflow							
Investment	2284						
Recurrent costs	11421	11421	11421	11421	11421		
	13705	11421	11421	11421	11421		
Net income before debt	14063	5353	6658	8064	9369		
Loan outstanding	13705	10964	8223	5482	2741		
Interest due (20%)	2741	2193	1645	1056	548		
Debt service							
Interest	2741	2193	1645	1056	548		
Repayment	2741	2741	2741	2741	2741		
Net Income after debt service	8581	419	2272	4227	6080		
Cumulative net income	8581	9060	11272	13227	17352		
Mandays of family labor	17	17	17	17	17		
Cumulative mandays	17	34	51	68	85		
Average net return/manday	505	265	221	195	204		
	591	342	293	247	258		
Financial analysis							
Revenue from sales	10843	13554	14859	16265	17570		
Cash outflow	13705	11421	11421	11421	11421		
Net cash flow	-2862	2133	3438	4844	6149		

Table O.2-13 Financial Model for Garlic Production at Sappaac
(One Hectare)

				YEAR				
				1	2	3	4	5
A. LABOUR REQUIREMENT (man-day)								
1. Land preparation				4	4	4	4	4
2. Preparing cloves/planting				88	88	88	88	88
3. Fertilizing				7	7	7	7	7
4. Watering				6	6	6	6	6
5. Weeding/spraying				30	30	30	30	30
6. Harvesting/sorting/drying				10	10	10	10	10
7. Sorting/drying				5	5	5	5	5
8. Cleaning/classifying/bundling				40	40	40	40	40
Total md				95	95	95	95	95
Total md				180.5	180.5	180.5	180.5	180.5
B. INVESTMENT (peso)								
1. Water pump & hosts etc.				Qty	Peso/ unit	Total Peso		
2. Knapsack sprayer				1	15,000	15,000		
3. Other farm implements				2	2,000	4,000		
				2	2,000	4,000		
						24,000		
C. RECURRENT COSTS								
Quantity								
Bulbs (kg)				420	420	420	420	420
Fertilizer								
Urea (kg)				50	50	50	50	50
0-0-60 (kg)				55	55	55	55	55
16-20-0 (kg)				320	320	320	320	320
Chemicals								
Malathion (ltr)				2	2	2	2	2
Prices (peso/unit)								
Seeds (peso/kg)				60.00				
Fertilizer								
Urea (peso/kg)				7.80				
0-0-60 (peso/kg)				4.65				
16-20-0 (peso/kg)				6.70				
Chemicals								
Malathion (peso/2ltr)				251.00				
Labor (md)				140.00				
Labor (md)				70.00				
Costs (peso)								
Seeds (peso)				25,200	25,200	25,200	25,200	25,200
Fertilizer								
Urea (peso)				390	390	390	390	390
0-0-60 (peso)				256	256	256	256	256
16-20-0 (peso)				2,144	2,144	2,144	2,144	2,144
Chemicals								
Malathion (peso)				502	502	502	502	502
Labor				13,965	13,965	13,965	13,965	13,965
				42,457	42,457	42,457	42,457	42,457
D. RETURNS								
Yield (ton/ha)				1.90	2.08	2.25	2.42	2.60
Revenue (peso) at 60,000 peso/ton				114,000	124,800	135,000	145,200	156,000
Cash Flow Projections								
Inflow								
Sales				114,000	124,800	135,000	145,200	156,000
Farmer Contribution (Half of labor costs)				6,983	6,983	6,983	6,983	6,983
Loan								
- Investment				24,000				
- Working capital				42,457				
Total inflow				187,440	131,783	141,983	152,183	162,983
Outflow								
Investment				24,000				
Recurrent costs				42,457	42,457	42,457	42,457	42,457
Total outflow				66,457	42,457	42,457	42,457	42,457
Net income before debt				120,983	89,325	99,525	109,725	120,525
Loan outstanding				66,457	53,165	39,874	26,583	13,291
Interest due (at 20%)				13,291	10,633	7,975	5,317	2,658
Debt service								
Interest				13,291	10,633	7,975	5,317	2,658
Repayment				13,291	13,291	13,291	13,291	13,291
Amortized years				5				
Net income after debt service				1,620	65,400	78,259	91,117	104,575
Cumulative net income				1,620	67,020	145,279	236,396	340,972
Mandays of family labor				95	95	95	95	95
Cumulative manday				95	190	285	380	475
Average net return/manday				17	353	510	622	716
Financial analysis								
Revenue from sales				114,000	124,800	135,000	145,200	156,000
Cash outflow				66,457	42,457	42,457	42,457	42,457
Net cash flow				47,543	82,343	92,543	102,743	113,543
FIRR =				> 50 %				

**Table O.2-14 Financial Model for Mungbean Production at Sappaac
(One Hectare)**

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	20	20	20	20	20
2. Planting (direct seeding)	8	8	8	8	8
3. Weeding/cultivation	4	4	4	4	4
4. Fertilizing	2	2	2	2	2
5. Spraying	6	6	6	6	6
6. Harvesting/hauling	10	10	10	10	10
7. Threshing/drying/cleaning	9	9	9	9	9
Total mand	20	20	20	20	20
Total md	39	39	39	39	39
B. INVESTMENT (peso)					
1. Capital Costs (at 20 % of recurrent)	% 0.20	Peso/ unit 8,137	Peso 1,627		
			1,627		
C. RECURRENT COSTS					
Quantity					
Seed	25	25	25	25	25
14-14-14 (kg)	150	150	150	150	150
Furadan 3g. (kg)	16	16	16	16	16
Prices (peso/unit)					
Seed	24.72				
14-14-14 (kg)	6.85				
Furadan 3g. (kg)	60.09				
Wages (peso/mand/md)					
Hired labor/mand	140.00				
Hired labor/md	70.00				
Costs (peso)					
Seed	618	618	618	618	618
14-14-14	1,028	1,028	1,028	1,028	1,028
Furadan 3g. (kg)	961	961	961	961	961
Labor	5,530	5,530	5,530	5,530	5,530
Total Recurrent Costs	8,137	8,137	8,137	8,137	8,137
D. RETURNS					
Production (ton/ha)	0.66	0.72	0.78	0.84	0.90
Revenue (peso) at 24720 Peso/ton	16,315	17,798	19,282	20,765	22,248
Cash Flow Projections					
Inflow					
Sales	16,315	17,798	19,282	20,765	22,248
Farmer Contribution (Half of labor costs)	2,765	2,765	2,765	2,765	2,765
Loan					
- Investment	1,627	0			
- Working capital	8,137	0	0	0	0
	26,844	20,563	22,047	23,530	25,013
Outflow					
Investment	1,627				
Recurrent costs	8,137	8,137	8,137	8,137	8,137
	9,764	8,137	8,137	8,137	8,137
Net income before debt	19,080	12,426	13,910	15,393	16,876
Loan outstanding	9,764	7,811	5,859	3,906	1,953
Interest due at 20 %	1,953	1,562	1,172	781	391
Debt service					
Interest	1,953	1,562	1,172	781	391
Repayment	1,953	1,953	1,953	1,953	1,953
Net income after debt service	15,174	8,911	10,766	12,659	14,533
Cumulative net income	15,174	24,085	34,871	36,744	49,403
Mandays of family labor	30	30	30	30	30
Cumulative mandays	30	59	89	118	148
Average net return/manday	514	408	394	311	335
Financial analysis					
Revenue from sales	16,315	17,798	19,282	20,765	22,248
Cash outflow	9,764	8,137	8,137	8,137	8,137
Net cash flow	6,551	9,661	11,145	12,628	14,111
FIRR =	>50 %				

Table O.2-15 Financial Model for Mungbean Production: Cofcaville
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	20	20	20	20	20
2. Planting (direct seeding)	8	8	8	8	8
3. Weeding/cultivation	4	4	4	4	4
4. Fertilizing	2	2	2	2	2
5. Spraying	6	6	6	6	6
6. Harvesting/hauling	10	10	10	10	10
7. Treshing/drying/cleaning	9	9	9	9	9
Total mad	20	20	20	20	20
Total md.	39	39	39	39	39
B. INVESTMENT (peso)					
1. Capital Costs	% 20	Peso/unit 7,239	Peso 1,448		
			1,448		
C. RECURRENT COSTS					
Quantity					
Seed	25	25	25	25	25
14-14-14 (kg)	150	150	150	150	150
Furadan 3g. (kg)	16	16	16	16	16
Prices (peso/unit)					
Seed	20.14				
14-14-14 (kg)	6.90				
Furadan 3g. (kg)	60.00				
Wages (peso/mad/md)					
Hired labor/mad	120.00				
Hired labor/md	60.00				
Costs (peso)					
Seed	504	504	504	504	504
14-14-14	1,035	1,035	1,035	1,035	1,035
Furadan 3g. (kg)	960	960	960	960	960
Labor	4,740	4,740	4,740	4,740	4,740
Total Recurrent Costs	7,239	7,239	7,239	7,239	7,239
D. RETURNS					
Production (ton/ha)	0.66	0.72	0.78	0.84	0.90
Revenue(peso) at 24720 Pesoton	16,315	17,798	19,282	20,765	22,248
Cash Flow Projections					
<u>Inflow</u>					
Sales	16,315	17,798	19,282	20,765	22,248
Farmer Contribution (Half of labor costs)	2,370	2,370	2,370	2,370	2,370
Loan					
- Investment	1,448	0			
- Working capital	7,239	0	0	0	0
	27,371	20,168	21,652	23,135	24,618
<u>Outflow</u>					
Investment	1,448				
Recurrent costs	7,239	7,239	7,239	7,239	7,239
	8,686	7,239	7,239	7,239	7,239
Net income before debt	18,685	12,930	14,413	15,896	17,380
Loan outstanding	8,686	6,949	5,212	3,474	1,737
Interest due (20%)	1,737	1,390	1,042	695	0
<u>Debt service</u>					
Interest	1,737	1,390	1,042	695	0
Repayment	1,737	1,737	1,737	1,737	1,737
Net income after debt service	15,211	9,803	11,634	13,464	15,642
Cumulative net income	15,211	25,014	36,647	39,478	52,290
Mandays of family labor	30	30	30	30	30
Cumulative mandays	30	59	89	118	148
Average net return/manday	516	424	414	326	355
Financial analysis					
Revenue from sales	16,315	17,798	19,282	20,765	22,248
Cash outflow	8,686	7,239	7,239	7,239	7,239
Net cash flow	7,629	10,560	12,043	13,526	15,010
FIRR =	> 50 %				

Table O.2-16 Financial Model for Mungbean Production: Marangog
(One Hectare)

		YEAR				
		1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)						
1. Plowing/harrowing/furrowing		20	20	20	20	20
2. Planting (direct seeding)		8	8	8	8	8
3. Weeding/cultivation		4	4	4	4	4
4. Fertilizing		2	2	2	2	2
5. Spraying		6	6	6	6	6
6. Harvesting/hauling		10	10	10	10	10
7. Threshing/drying/cleaning		9	9	9	9	9
Total mad		20	20	20	20	20
Total md.		39	39	39	39	39
B. INVESTMENT (peso)						
1. Capital Costs		Recurrent				
		%	Cost	Peso		
		20	7,188	1,438		
				1,438		
C. RECURRENT COSTS						
Quantity						
Seed		25	25	25	25	25
14-14-14 (kg)		150	150	150	150	150
Furadan 3g. (kg)		16	16	16	16	16
Prices (peso/unit)						
Seed	18.94					
14-14-14 (kg)	6.80					
Furadan 3g. (kg)	59.65					
Wages (peso/mad/md)						
Hired labor/mad	120.00					
Hired labor/md	60.00					
Costs (peso)						
Seed		474	474	474	474	474
14-14-14		1,020	1,020	1,020	1,020	1,020
Furadan 3g. (kg)		954	954	954	954	954
Labor		4,740	4,740	4,740	4,740	4,740
Total Recurrent Costs		7,188	7,188	7,188	7,188	7,188
D. RETURNS						
Production (ton/ha)		0.66	0.72	0.78	0.84	0.90
Revenue (peso) at 24,720 Peso/ton		16,315	17,798	19,282	20,765	22,248
Cash Flow Projections						
Inflow						
Sales		16,315	17,798	19,282	20,765	22,248
Farmer Contribution (Half of labor costs)		2,370	2,370	2,370	2,370	2,370
Loan						
- Investment		1,438	0			
- Working capital		7,188	0	0	0	0
		27,311	20,168	21,652	23,135	24,618
Outflow						
Investment		1,438				
Recurrent costs		7,188	7,188	7,188	7,188	7,188
		8,626	7,188	7,188	7,188	7,188
Net income before debt		18,685	12,981	14,464	15,947	17,430
Loan outstanding		8,626	6,901	5,176	3,450	1,725
Interest due (20%)		1,725	1,380	1,305	690	345
Debt service						
Interest		1,725	1,380	1,305	690	345
Repayment		1,725	1,725	1,725	1,725	1,725
Net income after debt service		15,235	9,875	11,434	13,532	15,360
Cumulative net income		15,235	25,110	36,544	38,642	51,904
Mandays of family labor		30	30	30	30	30
Cumulative mandays		30	59	89	118	148
Average net return/manday		516	426	413	327	352
Financial analysis						
Revenue from sales		16,315	17,798	19,282	20,765	22,248
Cash outflow		8,626	7,188	7,188	7,188	7,188
Net cash flow		7,689	10,611	12,094	13,577	15,060
FIRR =	>50 %					

Table O.2-17 Financial Model for Mungbean Production : Silae
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	20	20	20	20	20
2. Planting (direct seeding)	8	8	8	8	8
3. Weeding/cultivation	4	4	4	4	4
4. Fertilizing	2	2	2	2	2
5. Spraying	6	6	6	6	6
6. Harvesting/hauling	10	10	10	10	10
7. Threshing/drying/cleaning	9	9	9	9	9
Total mad	20	20	20	20	20
Total md.	39	39	39	39	39
B. INVESTMENT (peso)					
1. Capital Costs	Recurent				
	%	Cost	Peso		
	20.00	7,983	1,597		
C. RECURRENT COSTS					
Quantity					
Seed	25	25	25	25	25
14-14-14 (kg)	150	150	150	150	150
Furadan 3g. (kg)	16	16	16	16	16
Prices (peso/unit)					
Seed	19.14				
14-14-14 (kg)	6.80				
Furadan 3g. (kg)	59.65				
Wages (peso/md/md)					
Hired labor/md	140.00				
Hired labor/md	70.00				
Costs (peso)					
Seed	479	479	479	479	479
14-14-14	1,020	1,020	1,020	1,020	1,020
Furadan 3g. (kg)	954	954	954	954	954
Labor	5,530	5,530	5,530	5,530	5,530
Total Recurent Costs	7,983	7,983	7,983	7,983	7,983
D. RETURNS					
Production (ton/ha)	0.60	0.66	0.72	0.84	0.90
Revenue(peso) at 24720 Pesoton	16,315	17,798	19,282	20,765	22,248
Cash Flow Projections					
<u>Inflow</u>					
Sales	16,315	17,798	19,282	20,765	22,248
Farmer Contribution (Half of labor costs)	2,765	2,765	2,765	2,765	2,765
Loan					
- Investment	1,597	0	0	0	0
- Working capital	7,983	0	0	0	0
	28,660	20,563	22,047	23,530	25,013
<u>Outflow</u>					
Investment	1,597				
Recurrent costs	7,983	7,983	7,983	7,983	7,983
	9,580	7,983	7,983	7,983	7,983
Net income before debt	19,080	12,581	14,064	15,547	17,030
Loan outstanding	9,580	7,664	5,748	3,832	1,916
Interest due (20%)	1,916	1,533	1,150	766	383
<u>Debt service</u>					
Interest	1,916	1,533	1,150	766	383
Repayment	1,916	1,916	1,916	1,916	1,916
Net income after debt service	15,248	9,132	10,998	12,855	14,731
Cumulative net income	15,248	24,380	35,377	37,245	50,109
Mandays of family labor	30	30	30	30	30
Cumulative mandays	30	59	89	118	148
Average net return/manday	517	413	400	316	340
Financial analysis					
Revenue from sales	16,315	17,798	19,282	20,765	22,248
Cash outflow	9,580	7,983	7,983	7,983	7,983
Net cash flow	6,735	9,816	11,299	12,782	14,265
FIRR •	> 50 %				

**Table O.2-18 Financial Model for Peanut Production at Sappaac
(One Hectare)**

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	20	20	20	20	20
2. Planting (direct seeding)	6	6	6	6	6
3. Weeding/cultivation	10	10	10	10	10
4. Fertilizing	3	3	3	3	3
5. Spraying	3	3	3	3	3
6. Harvesting/postharvest	12	12	12	12	12
Total mad	24	24	24	24	24
Total md.	30	30	30	30	30
B. INVESTMENT (peso)					
	%	Recurrent Cost	Total Peso		
1. Capital Costs	0.20	9,787	1,957		
			1,957		
C. RECURRENT COSTS					
Quantity					
Seed	100	100	100	100	100
14-14-14 (kg)	200	200	200	200	200
Azodrin 202R (lb)	3	3	3	3	3
Prices (peso/unit)					
Seed	20.00				
14-14-14 (kg)	6.85				
Azodrin 202R (lb)	319.05				
Wages (peso/mad/md)					
Hired labor/mad	140.00				
Hired labor/md	70.00				
Costs (peso)					
Seed	2,000	2,000	2,000	2,000	2,000
14-14-14	1,370	1,370	1,370	1,370	1,370
Azodrin 202R (lb)	957	957	957	957	957
Labor	5,460	5,460	5,460	5,460	5,460
Total Recurrent Costs	9,787	9,787	9,787	9,787	9,787
D. RETURNS					
Production (ton/ha)	0.60				
Revenue (peso) at 13,870 Peso/ton	9,154	9,955	10,819	11,651	12,483
Cash Flow Projections					
<u>Inflow</u>					
Sales	9,154	9,955	10,819	11,651	12,483
Farmer Contribution (Half of labor costs)	2,730	2,730	2,730	2,730	2,730
Loan					
- Investment	1,957	0			
- Working capital	9,787	0	0	0	0
	23,629	12,715	13,549	14,381	15,213
<u>Outflow</u>					
Investment	1,957				
Recurrent costs	9,787	9,787	9,787	9,787	9,787
	11,745	9,787	9,787	9,787	9,787
Net income before debt	11,884	2,929	3,761	4,594	5,426
Loan outstanding	11,745	9,396	7,047	4,693	2,349
Interest due at 6 % *	705	564	423	282	141
Debt service *Max affordable interest rate					
Interest	705	564	423	282	141
Repayment (Amortized yrs)	2,349	2,349	2,349	2,349	2,349
Net income after debt service	8,831	17	990	1,963	2,936
Cumulative net income	8,831	8,847	9,837	10,810	12,773
Mandays of family labor	15	15	15	15	15
Cumulative mandays	15	30	45	60	75
Average net return/manday	589	295	219	180	170
Financial analysis					
Revenue from sales	9,154	9,955	10,819	11,651	12,483
Cash outflow	11,745	9,787	9,787	9,787	9,787
Net cash flow	-2,590	199	1,031	1,864	2,696
FIRR =	29 %				

Table O.2-19 Financial Model for Peanut Production: Colcaville
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/tilling	20	20	20	20	20
2. Planting (direct seeding)	8	6	6	6	6
3. Weeding/cultivation	10	10	10	10	10
4. Fertilizing	3	3	3	3	3
5. Spraying	3	3	3	3	3
6. Harvesting/postharvest	12	12	12	12	12
Total mad	24	24	24	24	24
Total md.	30	30	30	30	30
B. INVESTMENT (peso)					
1. Capital Costs	%	Recurrent Cost	Total		
	20	8,969	1,794		
			1,794		
C. RECURRENT COSTS					
Quantity					
Seed	100	100	100	100	100
14-14-14 (kg)	200	200	200	200	200
Azodrin 202R (ltr)	3	3	3	3	3
Prices (peso/unit)					
Seed	20.00				
14-14-14 (kg)	6.90				
Azodrin 202R (ltr)	302.85				
Wages (peso/mad/md)					
Hired labor/mad	120.00				
Hired labor/md	60.00				
Costs (peso)					
Seed	2,000	2,000	2,000	2,000	2,000
14-14-14	1,380	1,380	1,380	1,380	1,380
Azodrin 202R (ltr)	909	909	909	909	909
Labor	4,680	4,680	4,680	4,680	4,680
Total Recurrent Costs	8,969	8,969	8,969	8,969	8,969
D. RETURNS					
Production (ton/ha)	0.66	0.72	0.78	0.84	0.96
Revenue (peso) at 13,000 Pesos/ton	8,580	9,360	10,140	10,920	11,700
Cash Flow Projections					
<u>Inflow</u>					
Sales	8,580	9,360	10,140	10,920	11,700
Farmer Contribution (Half of labor costs)	2,340	2,340	2,340	2,340	2,340
Loan					
- Investment	1,794	0	0	0	0
- Working capital	8,969	0	0	0	0
	21,682	11,700	12,480	13,260	14,040
<u>Outflow</u>					
Investment	1,794				
Recurrent costs	8,969	8,969	8,969	8,969	8,969
	10,762	8,969	8,969	8,969	8,969
Net income before debt	10,920	2,731	3,511	4,291	5,071
Loan outstanding	10,762	8,610	6,458	4,306	2,154
Interest due (6.7%) ^{1/}	721	577	433	288	144
<u>Debt service</u>					
Interest	721	577	433	288	144
Repayment	2,152	2,152	2,152	2,152	2,154
^{1/} Maximum affordable interest rate					
Net income after debt service	8,047	2	926	1,851	2,773
Cumulative net income	8,047	8,049	8,976	9,901	11,749
Mandays of family labor	15	15	15	15	15
Cumulative mandays	15	30	45	60	75
Average net return/manday	536	268	199	165	157
Financial analysis					
Revenue from sales	8,580	9,360	10,140	10,920	11,700
Cash outflow	10,762	8,969	8,969	8,969	8,969
Net cash flow	-2,182	391	1,171	1,951	2,731
FIRR =	43 %	0.43			

Table O.2-20 Financial Model for Peanut Production: Marangog
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	20	20	20	20	20
2. Planting (direct seeding)	6	6	6	6	6
3. Weeding/cultivation	10	10	10	10	10
4. Fertilizing	3	3	3	3	3
5. Spraying	3	3	3	3	3
6. Harvesting/postharvest	12	12	12	12	12
Total mand	24	24	24	24	24
Total md.	30	30	30	30	30
B. INVESTMENT (peso)					
1. Capital Costs	% 20	Recurrent Cost 9,046	Total Peso 1,809		
			1,809		
C. RECURRENT COSTS					
Quantity					
Seed	100	100	100	100	100
14-14-14 (kg)	200	200	200	200	200
Azodrin 202R (ltr)	3	3	3	3	3
Prices (peso/unit)					
Seed	20.00				
14-14-14 (kg)	6.80				
Azodrin 202R (ltr)	335.25				
Wages (peso/mand/md)					
Hired labor/mand	120.00				
Hired labor/md	60.00				
Costs (peso)					
Seed	2,000	2,000	2,000	2,000	2,000
14-14-14	1,360	1,360	1,360	1,360	1,360
Azodrin 202R (ltr)	1,006	1,006	1,006	1,006	1,006
Labor	4,680	4,680	4,680	4,680	4,680
Total Recurrent Costs	9,046	9,046	9,046	9,046	9,046
D. RETURNS					
Production (ton/ha)	0.66	0.72	0.78	0.84	0.90
Revenue(peso) at 13950/Peso/ton	9,207	10,044	10,881	11,718	12,555
Cash Flow Projections					
Inflow					
Sales	9,207	10,044	10,881	11,718	12,555
Farmer Contribution (Half of labor costs)	2,340	2,340	2,340	2,340	2,340
Loan					
- Investment	1,809	0			
- Working capital	9,046	0	0	0	0
	22,402	12,384	13,221	14,058	14,895
Outflow					
Investment	1,809				
Recurrent costs	9,046	9,046	9,046	9,046	9,046
	10,855	9,046	9,046	9,046	9,046
Net income before debt	11,547	3,338	4,175	5,012	5,849
Loan outstanding	10,855	8,684	6,513	4,342	2,171
Interest due (13.4%)1/	1,455	1,164	873	582	291
Debt service					
Interest	1,455	1,164	873	582	291
Repayment	2,171	2,171	2,171	2,171	2,171
1/ Max affordable interest rate					
Net income after debt service	7,921	3	1,131	2,259	3,387
Cumulative net income	7,921	7,924	9,056	10,184	12,443
Mandays of family labor	15	15	15	15	15
Cumulative mandays	15	30	45	60	75
Average net return/manday	528	264	201	170	166
Financial analysis					
Revenue from sales	9,207	10,044	10,881	11,718	12,555
Cash outflow	10,855	9,046	9,046	9,046	9,046
Net cash flow	-1,648	998	1,835	2,672	3,509
FIRR = 92 %	0.92				

Table O.2-21 Financial Model for peanut Production: Silae
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	20	20	20	20	20
2. Planting (direct seeding)	6	6	6	6	6
3. Weeding/cultivation	10	10	10	10	10
4. Fertilizing	3	3	3	3	3
5. Spraying	3	3	3	3	3
6. Harvesting/postharvest	12	12	12	12	12
Total mand	24	24	24	24	24
Total md.	30	30	30	30	30
B. INVESTMENT (peso)					
	%	Recurrent Cost	Total		
1. Capital Costs	20.00	9,729	1,946		
			1,946		
C. RECURRENT COSTS					
Quantity					
Seed	100	100	100	100	100
14-14-14 (kg)	200	200	200	200	200
Azodrin 202R (ltr)	3	3	3	3	3
Prices (peso/unit)					
Seed	20.00				
14-14-14 (kg)	6.80				
Azodrin 202R (ltr)	302.85				
Wages (peso/mand/md)					
Hired labor/mand	140.00				
Hired labor/md	70.00				
Costs (peso)					
Seed	2,000	2,000	2,000	2,000	2,000
14-14-14	1,360	1,360	1,360	1,360	1,360
Azodrin 202R (ltr)	909	909	909	909	909
Labor	5,460	5,460	5,460	5,460	5,460
Total Recurrent Costs	9,729	9,729	9,729	9,729	9,729
D. RETURNS					
Production (ton/ha)	0.65	0.72	0.78	0.84	0.90
Revenue(peso) at 13,870 Peso/ton	9,154	9,986	10,819	11,651	12,483
Cash Flow Projections					
<u>Inflow</u>					
Sales	9,154	9,986	10,819	11,651	12,483
Farmer Contribution (Half of labor costs)	2,730	2,730	2,730	2,730	2,730
Loan					
- Investment	1,946	0			
- Working capital	9,729	0	0	0	0
	23,559	12,716	13,549	14,381	15,213
<u>Outflow</u>					
Investment	1,946				
Recurrent costs	9,729	9,729	9,729	9,729	9,729
	11,675	9,729	9,729	9,729	9,729
Net income before debt	11,884	2,988	3,820	4,652	5,484
Loan outstanding	11,675	9,340	7,006	4,670	2,335
Interest due (6.9%) ^{1/}	806	644	483	322	161
<u>Debt service</u>					
Interest	806	644	483	322	161
Repayment	2,335	2,335	2,335	2,335	2,335
^{1/} Maximum affordable interest rate					
Net income after debt service	8,743	9	1,002	1,995	2,988
Cumulative net income	8,743	8,752	9,754	10,747	12,743
Mandays of family labor	15	15	15	15	15
Cumulative mandays	15	30	45	60	75
Average net return/manday	583	292	217	179	170
Financial analysis					
Revenue from sales	9,154	9,986	10,819	11,651	12,483
Cash outflow	11,675	9,729	9,729	9,729	9,729
Net cash flow	-2,520	258	1,090	1,922	2,754
FIRR = 33 %	0.33				

Table O.2-22 Financial Model for Squash Production: Marangog
(One Hectare)

		YEAR				
		1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)						
1 Plowing/harrowing/furrowing		21	21	21	21	21
2 Planting		8	8	8	8	8
3 Weeding/cultivation		10	10	10	10	10
4 Fertilizing		3	3	3	3	3
5 Spraying		6	6	6	6	6
6 Irrigation/drainage		9	9	9	9	9
7 Harvesting/hauling		28	28	28	28	28
Total mad		26	26	26	26	26
Total md		59	59	59	59	59
B. INVESTMENT (peso)		Recurrent				
1 Capital Costs		%	Cost	Peso		
		20	11,135	2,227		
				2,227		
C. RECURRENT COSTS						
Quantity						
Seed (kg)		4	4	4	4	4
Urea (kg)		50	50	50	50	50
0-0-60 (kg)		55	55	55	55	55
16-20-0 (kg)		320	320	320	320	320
Malathion (ltr)		2	2	2	2	2
Prices (peso/unit)						
Seed (kg)	300.00					
Urea (kg)	8.20					
0-0-60 (kg)	4.90					
16-20-0 (kg)	6.60					
Malathion (ltr)	241.50					
Wages (peso/mad/md)						
Hired labor/mad	120.00					
Hired labor/md	60.00					
Costs (peso)						
Seed		1,200	1,200	1,200	1,200	1,200
Urea		410	410	410	410	410
0-0-60		270	270	270	270	270
16-20-0		2,112	2,112	2,112	2,112	2,112
Malathion		483	483	483	483	483
Labor		6,660	6,660	6,660	6,660	6,660
Total Recurrent Costs		11,135	11,135	11,135	11,135	11,135
D. RETURNS						
Production (ton/ha)		2.34	2.56	2.77	2.98	3.20
Revenue (peso) at 5,500 Peso/ton		12,870	14,080	15,235	16,390	17,600
Cash Flow Projections						
Inflow						
Sales		12,870	14,080	15,235	16,390	17,600
Farmer Contribution (Half of labor costs)		3,330	3,330	3,330	3,330	3,330
Loan						
- Investment		2,227				
- Working capital		11,135	0	0	0	0
		29,562	17,410	18,565	19,720	20,930
Outflow						
Investment		2,227				
Recurrent costs		11,135	11,135	11,135	11,135	11,135
		13,362	11,135	11,135	11,135	11,135
Net income before debt		16,200	6,276	7,431	8,586	9,796
Loan outstanding		13,362	10,710	8,058	5,406	2,754
Interest due (20%)		2,672	2,142	1,611	1,081	550
Debt service						
Interest		2,652	2,122	1,591	1,061	531
Repayment		2,672	2,672	2,672	2,672	2,672
Net income after debt service		10,876	1,482	3,168	4,853	6,593
Cumulative net income		10,876	12,358	15,525	17,210	22,118
Mandays of family labor		43	43	43	43	43
Cumulative mandays		43	85	128	170	213
Average net return/manday		256	145	122	101	104
Financial analysis						
Revenue from sales		12,870	14,080	15,235	16,390	17,600
Cash outflow		13,362	11,135	11,135	11,135	11,135
Net cash flow		-492	2,946	4,101	5,256	6,466
FIRR =	> 50 %					

Table O.2-23 Financial Model for Sweet Potato Production at Sappaac
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/furrowing	22	22	22	22	22
2. Planting	6	6	6	6	6
3. Weeding/cultivation	10	10	10	10	10
4. Fertilizing	2	2	2	2	2
5. Spraying	2	2	2	2	2
6. Harvesting/postharvest	31	31	31	31	31
Total mad	30	30	30	30	30
Total md.	43	43	43	43	43
B. INVESTMENT (peso)					
	%	Peso/unit	Peso		
1. Capital costs (20% of recurrent cost)	0.20	16,471	3,294		
			3,294		
C. RECURRENT COSTS					
Quantity					
Seedlings	50,000	50,000	50,000	50,000	50,000
0-0-60 (kg)	100	100	100	100	100
16-20-0 (kg)	200	200	200	200	200
Lannate EC (ltr)	1	1	1	1	1
Furadon 3G (kg)	34	34	34	34	34
Prices (peso/unit)					
Seedlings	0.10				
0-0-60 (kg)	4.66				
16-20-0 (kg)	6.70				
Lannate EC (ltr)	415.00				
Furadon 3G (kg)	60.00				
Wages (peso/mad/md)					
Hired labor/mad	140.00				
Hired labor/md	70.00				
Costs (peso)					
Seedlings	5,000	5,000	5,000	5,000	5,000
0-0-60 (kg)	466	466	466	466	466
16-20-0 (kg)	1,340	1,340	1,340	1,340	1,340
Lannate EC (ltr)	415	415	415	415	415
Furadon 3G (kg)	2,040	2,040	2,040	2,040	2,040
Labor	7,210	7,210	7,210	7,210	7,210
Total Recurrent Costs	16,471	16,471	16,471	16,471	16,471
D. RETURNS					
Production (ton/ha)	4.98	5.44	5.89	6.34	6.80
Revenue (peso) at 6,950 Peso/ton	34,611	37,808	40,936	44,063	47,260
Cash Flow Projections					
<u>Inflow</u>					
Sales	34,611	37,808	40,936	44,063	47,260
Farmer Contribution (1/2 of labor costs)	3,605	3,605	3,605	3,605	3,605
Loan					
- Investment	3,294	0			
- Working capital	16,471	0	0	0	0
	57,981	41,413	44,541	47,668	50,865
<u>Outflow</u>					
Investment	3,294				
Recurrent costs	16,471	16,471	16,471	16,471	16,471
	19,765	16,471	16,471	16,471	16,471
Net income before debt	38,216	24,942	28,069	31,197	34,394
Loan outstanding	19,765	15,812	11,859	7,906	3,953
Interest due at 20 % 0.2	3,953	3,162	2,372	1,581	791
Debt service					
Interest	3,953	3,162	2,372	1,581	791
Repayment	3,953	3,953	3,953	3,953	3,953
Net income after debt service	30,310	17,826	21,745	25,663	29,650
Cumulative net income	30,310	48,136	69,881	73,799	99,531
Mandays of family labor	37	37	37	37	37
Cumulative mandays	37	73	110	146	183
Average net return/manday	830	659	638	505	545
Financial analysis					
Revenue from sales	34,611	37,808	40,936	44,063	47,260
Cash outflow	19,765	16,471	16,471	16,471	16,471
Net cash flow	14,846	21,337	24,464	27,592	30,789
FIRR =	> 50 %				

Table O.2-24 Financial Model for Sweet Potato Production: Cofcaville
(One Hectare)

	YEAR				
	1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)					
1. Plowing/harrowing/tilling	22	22	22	22	22
2. Planting	6	6	6	6	6
3. Weeding/cultivation	10	10	10	10	10
4. Fertilizing	2	2	2	2	2
5. Spraying	2	2	2	2	2
6. Harvesting/postharvest	31	31	31	31	31
Total mand	30	30	30	30	30
Total md.	43	43	43	43	43
B. INVESTMENT (peso)					
	%	Recurrent Cost	Total Peso		
1. Capital costs	20	15,458	3,092		
			3,092		
C. RECURRENT COSTS					
Quantity					
Seedlings	50,000	50,000	50,000	50,000	50,000
0-0-60 (kg)	100	100	100	100	100
16-20-0 (kg)	200	200	200	200	200
Lannate EC (ltr)	1	1	1	1	1
Furadon 3G (kg)	34	34	34	34	34
Prices (peso/unit)					
Seedlings	0.10				
0-0-60 (kg)	4.48				
16-20-0 (kg)	6.80				
Lannate EC (ltr)	430.00				
Furadon 3G (kg)	60.00				
Wages (peso/mand/md)					
Hired labor/mand	120.00				
Hired labor/md	60.00				
Costs (peso)					
Seedlings	5,000	5,000	5,000	5,000	5,000
0-0-60 (kg)	448	448	448	448	448
16-20-0 (kg)	1,360	1,360	1,360	1,360	1,360
Lannate EC (ltr)	430	430	430	430	430
Furadon 3G (kg)	2,040	2,040	2,040	2,040	2,040
Labor	6,180	6,180	6,180	6,180	6,180
Total Recurrent Costs	15,458	15,458	15,458	15,458	15,458
D. RETURNS					
Production (ton/ha)	4.98	5.44	5.89	6.34	5.80
Revenue (peso) at 4,000 Peso/ton	19,920	21,760	23,560	25,360	23,200
Cash Flow Projections					
<u>Inflow</u>					
Sales	19,920	21,760	23,560	25,360	23,200
Farmer Contribution (Half of labor costs)	3,090	3,090	3,090	3,090	3,090
Loan					
- Investment	3,092	0			
- Working capital	15,458	0	0	0	0
	41,560	24,850	26,650	28,450	26,290
<u>Outflow</u>					
Investment	3,092				
Recurrent costs	15,458	15,458	15,458	15,458	15,458
	18,550	15,458	15,458	15,458	15,458
Net income before debt	23,010	9,392	11,192	12,992	10,832
Loan outstanding	18,550	14,840	11,130	7,420	3,710
Interest due (20%)	3,710	2,968	2,226	1,484	742
Debt service					
Interest	3,710	2,968	2,226	1,484	742
Repayment	3,710	3,710	3,710	3,710	3,710
Net income after debt service	15,590	2,714	5,256	7,798	6,380
Cumulative net income	15,590	18,304	23,560	26,102	29,940
Mandays of family labor	37	37	37	37	37
Cumulative mandays	37	73	110	146	183
Average net return/manday	427	251	215	179	164
Financial analysis					
Revenue from sales	19,920	21,760	23,560	25,360	23,200
Cash outflow	18,550	15,458	15,458	15,458	15,458
Net cash flow	1,370	6,302	8,102	9,902	7,742
FIRR =	> 50 %				

**Table O.2-25 Financial Model for Sweet Potato Production: Marangog
(One Hectare)**

		YEAR				
		1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)						
1. Plowing/harrowing/furrowing		22	22	22	22	22
2. Planting		6	6	6	6	6
3. Weeding/cultivation		10	10	10	10	10
4. Fertilizing		2	2	2	2	2
5. Spraying		2	2	2	2	2
6. Harvesting/postharvest		31	31	31	31	31
Total mad		30	30	30	30	30
Total md.		43	43	43	43	43
B. INVESTMENT (peso)						
1. Capital costs		%	Peso/unit	Peso		
		20	15,430	3,086		
				3,086		
C. RECURRENT COSTS						
Quantity		50,000	50,000	50,000	50,000	50,000
Seedlings		100	100	100	100	100
0-0-60 (kg)		200	200	200	200	200
16-20-0 (kg)		1	1	1	1	1
Lannate EC (ltr)		34	34	34	34	34
Furadon 3G (kg)						
Prices (peso/unit)						
Seedlings	0.10					
0-0-60 (kg)	4.90					
16-20-0 (kg)	6.60					
Lannate EC (ltr)	400.00					
Furadon 3G (kg)	60.00					
Wages (peso/mad/md)						
Hired labor/mad	120.00					
Hired labor/md	60.00					
Costs (peso)						
Seedlings		5,000	5,000	5,000	5,000	5,000
0-0-60 (kg)		490	490	490	490	490
16-20-0 (kg)		1,320	1,320	1,320	1,320	1,320
Lannate EC (ltr)		400	400	400	400	400
Furadon 3G (kg)		2,040	2,040	2,040	2,040	2,040
Labor		6,180	6,180	6,180	6,180	6,180
Total Recurrent Costs		15,430	15,430	15,430	15,430	15,430
D. RETURNS						
Production (ton/ha)		4.98	5.44	5.89	6.34	6.80
Revenue(peso) at	6,950 Peso/ton	34,611	37,808	40,936	44,063	47,260
Cash Flow Projections						
<u>Inflow</u>						
Sales		34,611	37,808	40,936	44,063	47,260
Farmer Contribution (Half of labor costs)		3,090	3,090	3,090	3,090	3,090
Loan						
- Investment		3,086	0	0	0	0
- Working capital		15,430	0	0	0	0
		56,217	40,898	44,026	47,153	50,350
<u>Outflow</u>						
Investment		3,086				
Recurrent costs		15,430	15,430	15,430	15,430	15,430
		18,516	15,430	15,430	15,430	15,430
Net income before debt		37,701	25,468	28,596	31,723	34,920
Loan outstanding		18,516	14,813	11,110	7,406	3,703
Interest due (20%)		3,703	2,963	2,222	1,481	741
<u>Debt service</u>						
Interest		3,703	2,963	2,222	1,481	741
Repayment		3,703	3,703	3,703	3,703	3,703
Net income after debt service		30,295	18,802	22,670	26,539	30,476
Cumulative net income		30,295	49,097	71,767	98,306	128,782
Mandays of family labor		37	37	37	37	37
Cumulative mandays		37	73	110	146	183
Average net return/manday		830	673	655	518	560
Financial analysis						
Revenue from sales		34,611	37,808	40,936	44,063	47,260
Cash outflow		18,516	15,430	15,430	15,430	15,430
Net cash flow		16,095	22,378	25,506	28,633	31,830
FIRR =	> 50 %					

**Table O.2-26 Financial Model for Abaca Production: Marangog
(One Hectare)**

		YEAR				
		1	2	3	4	5-25
A. LABOUR REQUIREMENT (man-day)						
1. Land clearing/preparation		24				
2. Staking/digging/planting		10	10	10	10	10
3. Underbrushing		12	12	12	12	12
4. Desucking/trashing		8	8	8	8	8
5. Ring weeding		10	10	10	10	10
6. Fertilizing		5	5	5	5	5
7. Harvesting & stripping		0	8	16	16	16
Total mad		24				
Total md.		45	53	61	61	61
B. INVESTMENT (peso)						
		Qty	Peso/unit	Peso		
1. Gardening & stripping tools		1	1,000	1,000		
2. Abaca seedpieces/hauling		2,750	3	8,250		
				9,250		
3. Replanted seedlings		275	3	825		
C. RECURRENT COSTS						
Quantity						
14-14-14 (kg)		150	150	150	150	150
Insecticide (ltr)		1	1	2	2	2
Prices (peso/unit)						
14-14-14/kg	6.8					
Insecticide/ltr	340					
Wages (peso/mad/md)						
Hired labor/mad	120					
Hired labor/md	60					
Costs (peso)						
14-14-14		1,020	1,020	1,020	1,020	1,020
Insecticide		340	340	680	680	680
Labor		2,700	3,180	3,660	3,660	3,660
		4,060	4,540	5,360	5,360	5,360
D. RETURNS						
Production (ton/ha)		0	0.6	1.3	1.3	1.3
Revenue(peso) at	19,720 Peso/ton	0	11,832	25,636	25,636	25,636
Cash Flow Projections						
<u>Inflow</u>						
Sales		0	11,832	25,636	25,636	25,636
Farmer Contribution (Half of labor costs)		1,350	1,590	1,830	1,830	1,830
Loan						
- Investment		9,250	275			
- Working capital		4,060				
		14,660	13,697	27,466	27,466	27,466
<u>Outflow</u>						
Investment/replacement		9,250	825			1,000
Recurrent costs		4,060	4,540	5,360	5,360	5,360
		13,310	5,365	5,360	5,360	6,360
Net Income before debt		1,350	8,332	22,106	22,106	21,106
Loan outstanding		13,310	16,247	12,185	8,123	4,061
Interest due at 20 %		2,662	3,249	2,437	1,625	812
<u>Debt service</u>						
Interest		0	3,249	2,437	1,625	812
Repayment (peso)		0	4,062	4,062	4,062	4,062
Net Income after debt service		1,350	1,021	15,607	16,419	16,232
Cumulative net income		1,350	2,371	17,978	18,790	34,210
Mandays of family labor		23	27	31	31	31
Cumulative mandays		23	49	80	110	141
Average net return/manday		60	48	226	171	243
Financial analysis						
Revenue from sales		0	11,832	25,636	25,636	25,636
Cash outflow		13,310	5,365	5,360	5,360	6,360
Net cash flow		-13,310	6,467	20,276	20,276	19,276
FIRR =	> 50 %					

Table O.2-27 Financial Model for Banana (Saba) Production at Sappaac

		YEAR		
		1	2	3
A. LABOUR REQUIREMENT (mand/md)				
1. Land preparation		24		
2. Lining staking planting		10		
3. Fertilizing		8	8	8
4. Ring weeding (4x)		60	70	70
5. Desucking/trashing		8	8	8
6. Harvesting			10	10
Total mand		24		
Total md		86	96	96
B. INVESTMENT (peso)				
1. Saba suckers		625	2	1,250
2. Farm implements		1	1,000	1,000
3. Knapsack sprayer		3	2,000	6,000
				8,250
4. Replanted suckers		63	2	126
C. RECURRENT COSTS				
Quantity				
Fertilizer(kg)	14-14-14	175	175	175
Urea		200	200	200
	0-0-60	450	450	450
Insecticides (ltr)		4	4	4
Prices (peso/unit)				
Fertilizer(kg)	14-14-14	7		
Urea		8		
	0-0-60	5		
Insecticides (ltr)		254		
Labor (mand/md)	120.00	60		
Costs (peso)				
Fertilizer(kg)	14-14-14	1,199	1,199	1,199
Urea		1,560	1,560	1,560
	0-0-60	2,097	2,097	2,097
Chemicals (ltr)		1,016	1,016	1,016
Labor		8,040	5,760	5,760
		13,912	11,632	11,632
D. RETURNS				
No. of hills		625	625	625
% fruiting			80	90
No. of bunches			500	562
No. of hands	12 hand/bn		6,000	6,744
No. of fingers	16 fing/hand		96,000	107,904
Yield (Kg/ha)	9 fing/kg	0	10,687	11,989
Revenue at (peso)	3.32 peso/kg	0	35,413	39,806
Cash Flow Projections				
Inflow				
Sales		0	35,413	39,806
Farmer Contribution (half of labor costs)		0	0	0
Loan				
- Investment		8,250		
- Working capital		13,912		
Total inflow		22,162	35,413	39,806
Outflow				
Investment/replacement		8,250	126	
Recurrent costs		13,912	11,632	11,632
Total outflow		22,162	11,758	11,632
Net income before debt		0	23,655	28,172
Loan outstanding		22,162	26,566	15,290
Interest due		4,432	5,319	3,058
Debt service				
Interest	0.2	0	4,750	2,375
Repayment		0	11,874	11,874
Net income after debt service		1,620	7,031	13,923
Cumulative net income		1,620	8,651	22,575
Mandays of family labor		43	48	48
Cumulative manday		43	91	139
Average net return/manday		38	95	162
Financial analysis				
Revenue from sales		0	35,413	39,806
Cash outflow		22,162	11,758	11,632
Net cash flow		-22,162	23,655	28,172
FIRR =	78 %			

Table O.2-28 Financial Model for Banana (Saba) Production: Cofcaville
(One Hectare)

		YEAR		
		1	2	3
A. LABOR REQUIREMENT (mad/md)				
1. Land preparation		24		
2. Lining staking planting		10		
3. Fertilizing		8	8	8
4. Ring weeding (4x)		60	70	70
5. Desucking/trashing		8	8	8
6. Harvesting			10	10
	mad	24		
	md	86	96	96
B. INVESTMENT (peso)				
		Qty	Peso/ unit	Total Peso
1. Saba suckers		625	2	1,250
2. Farm implements		1	1,000	1,000
3. Knapsack sprayer		3	2,000	6,000
				8,250
4. Replanted suckers		63	2	126
C. RECURRENT COSTS				
Quantity				
Fertilizer(kg)	14-14-14	175	175	175
Urea		200	200	200
	0-0-60	450	450	450
Insecticides (ltr)		4	4	4
Prices (peso/unit)				
Fertilizer(kg)	14-14-14	7		
Urea		8		
	0-0-60	4		
Insecticides (ltr)		254		
Labor (mad/md)	120.00	60		
Costs (peso)				
Fertilizer(kg)	14-14-14	1,208	1,208	1,208
Urea		1,500	1,500	1,500
	0-0-60	2,017	2,017	2,017
Chemicals (ltr)		1,016	1,016	1,016
Labor		8,040	5,760	5,760
		13,780	11,500	11,500
D. RETURNS				
No. of hills		625	625	625
% fruiting			80	90
No. of bunches			500	562
No. of hands	12 hand/bn		6,000	6,744
No. of fingers	16 fing/hand		96,000	107,904
Yield (Kg/ha)	9 fing/kg	0	10,667	11,989
Revenue at (peso)	3.32 peso/kg	0	35,413	39,806
Cash Flow Projections				
Inflow				
Sales		0	35,413	39,806
Farmer Contribution (Half of labor costs)		0	0	0
Loan				
- Investment		8,250		
- Working capital		13,780		
Total inflow		22,030	35,413	39,806
Outflow				
Investment/replacement		8,250	126	
Recurrent costs		13,780	11,500	11,500
Total outflow		22,030	11,626	11,500
Net income before debt		0	23,787	28,304
Loan outstanding		22,030	26,436	15,100
Interest due at 20%	0.2	4,406	5,287	3,020
Debt service				
Interest		0	4,750	2,375
Repayment		0	11,874	11,874
Net Income after debt service		1,620	7,163	14,055
Cumulative net income		1,620	8,783	22,838
Mandays of family labor		43	48	48
Cumulative manday		43	91	139
Average net return/manday		38	97	164
Financial analysis				
Revenue from sales		0	35,413	39,806
Cash outflow		22,030	11,626	11,500
Net cash flow		-22,030	23,787	28,304
FIRR =	80 %	1		

**Table O.2-29 Financial Model for Banana (Saba) Production: Marangog
(One Hectare)**

		YEAR		
		1	2	3
A. LABOUR REQUIREMENT (mad/md)				
1. Land preparation		24		
2. Lining, staking, planting		10		
3. Fertilizing		8	8	8
4. Ring weeding (4x)		60	70	70
5. Desucking/trashing		8	8	8
6. Harvesting			10	10
	mad	24		
	md	86	96	96
B. INVESTMENT (peso)		Qty	Peso/ unit	Total Peso
1. Saba suckers		625	2	1,250
2. Farm implements		1	1,000	1,000
3. Knapsack sprayer		3	2,000	6,000
				8,250
4. Replanted suckers		63	2	126
C. RECURRENT COSTS				
Quantity				
Fertilizer(kg)	14-14-14	175	175	175
Urea		200	200	200
	0-0-60	450	450	450
Insecticides (ltr)		4	4	4
Prices (peso/unit)				
Fertilizer(kg)	14-14-14	7		
Urea		8		
	0-0-60	5		
Insecticides (ltr)		254		
Labor (mad/md)	120.00	60		
Costs (peso)				
Fertilizer(kg)	14-14-14	1,190	1,190	1,190
Urea		1,640	1,640	1,640
	0-0-60	2,205	2,205	2,205
Chemicals (ltr)		1,016	1,016	1,016
Labor		8,040	5,760	5,760
		14,091	11,811	11,811
D. RETURNS				
No. of hills		625	625	625
% fruiting			80	90
No. of bunches			500	562
No. of hands	12 hand/bn		6,000	6,744
No. of fingers	16 lng/hand		96,000	107,904
Yield (ton/ha)	9 lngr/kg	0	9	10
Revenue at (peso)	3,200 peso/kg	0	28,800	32,000
Cash Flow Projections				
Inflow				
Sales		0	28,800	32,000
Farmer Contribution (Half of labor costs)		0	0	0
Loan				
- Investment		8,250		
- Working capital		14,091		
Total inflow		22,341	28,800	32,000
Outflow				
Investment/replacement		8,250	126	
Recurrent costs		14,091	11,811	11,811
Total outflow		22,341	11,937	11,811
Net income before debt		0	16,863	20,189
Loan outstanding		22,341	26,609	13,405
Interest due (20%)		4,468	5,362	2,681
Debt service				
Interest		0	5,362	2,681
Repayment		0	13,404	13,405
Net income after debt service		1,620	-1,903	4,103
Cumulative net income		1,620	-283	3,820
Mandays of family labor		43	48	48
Cumerative manday		43	91	139
Average net return/manday		38	-3	27
Financial analysis				
Revenue from sales		0	28,800	32,000
Cash outflow		22,341	11,937	11,811
Net cash flow		-22,341	16,863	20,189
FIRR =	40 %			

(One Hectare)

Table 0.2-31 Financial Model for Existing Coconut Production: Marang

[illegible]

Note. 1/ From Site Survey in 1968
2/ From EARFAD PSD project B400

Table O.2-32 Financial Model for Newly-Planted Coconut Production: Marangog
(One Hectare)

	YEAR												
	1	2	3	4	5	6	7	8	9	10	11	12	13-25
A. LABOUR REQUIREMENT (man-day)													
1. Land clearing/preparation	24												
2. Staking/digging/planting	10												
3. Watering	7												
4. Replanting	0	1											
5. Weeding/fertilization	25	25	25	25	25	25	25	25	25	25	25	25	25
6. Harvesting & copra making	0	0	0	0	0	6	12	20	29	29	29	29	29
Total md	24												
Total md	42	26	25	25	25	31	37	45	54	54	54	54	54
B. INVESTMENT (peso)													
	Qty	Peso/unit	Peso										
1. Gardening tools	1	1,000	1,000										
2. Seedling	168	12	2,016										
3. Shading supports	168	0.50	84										
4. Abaca rope as tying materials (m)	20	8.00	160										
			3,260										
5. Replanted seedlings	17	12	204										
C. RECURRENT COSTS													
Quantity	24	39	43	47	52	57	63	69	76	84	92	101	92
45-0-0 (kg)	0	2	2	2	3	3	3	4	4	4	5	5	5
Pesticide (ltr)													
Prices (peso/unit)													
Urea (kg)	82												
Pesticide (ltr)	296												
Hired labor/(md)	120												
Hired labor/(md)	60												
Costs (peso)													
Urea	197	320	352	387	426	468	515	567	623	686	754	829	754
Pesticides	0	592	651	716	788	867	953	1,049	1,154	1,269	1,396	1,536	1,396
Labor	5,400	1,560	1,500	1,500	1,500	1,860	2,220	2,700	3,240	3,240	3,240	3,240	3,240
	5,597	2,472	2,503	2,603	2,714	3,195	3,688	4,315	5,017	5,195	5,390	5,605	5,390
D. RETURNS													
Production													
Copra (ton/ha)	0	0	0	0	0.0	0.5	1.0	1.5	2.0	2.5	2.5	2.5	2.5
Charcoal 0.3 (%copra)	0	0	0	0	0.0	0.2	0.3	0.5	0.6	0.8	0.8	0.8	0.8
Revenue													
Copra at 8,700 Peso/ton	0	0	0	0	0	4,350	8,700	13,050	17,400	21,750	21,750	21,750	21,750
Charcoal at 2,500 Peso/ton	0	0	0	0	0	375	750	1,125	1,500	1,875	1,875	1,875	1,875
Cash Flow Projections													
Inflow													
Sales	0	0	0	0	0	4,725	9,450	14,175	18,900	23,625	23,625	23,625	23,625
Farmer Contribution (half of labor costs)	2,700	780	750	750	750	930	1,110	1,350	1,620	1,620	1,620	1,620	1,620
Loan													
- Investment	3,260	204			1,000								
- Working capital	5,597	2,472	2,503	2,603	2,714								
Total Inflow	11,557	3,456	3,253	3,353	4,464	5,655	10,560	15,525	20,520	25,245	25,245	25,245	25,245
Outflow													
Investment/replacement	3,260	204			1,000					1,000			200
Recurrent costs	5,597	2,472	2,503	2,603	2,714	3,195	3,688	3,688	3,688	3,688	3,688	3,688	5,390
Total Outflow	8,857	2,676	2,503	2,603	3,714	3,195	3,688	3,688	3,688	4,688	3,688	3,688	5,590
Net income before debt	2,700	780	750	750	750	2,460	6,872	11,837	16,832	20,557	21,557	21,557	19,655
Loan outstanding	8,857	12,507	16,386	20,791	26,791	29,738	33,009	36,840	39,312	41,904	44,656	47,328	0
Interest due (11%)/	974	1,376	1,802	2,287	2,947	3,271	3,631	4,030	3,224	2,418	1,612	806	0
Debt service													
Interest	0	0	0	0	0	0	0	4,030	3,224	2,418	1,612	806	0
Repayment	0	0	0	0	0	0	0	7,328	7,328	7,328	7,328	7,328	0
1/ Maximum bearable interest rate by the farmers													
Net income after debt service	2,700	780	750	750	750	2,460	6,872	478	6,279	10,610	12,616	13,422	19,655
Cumulative net income	2,700	3,480	4,230	4,980	5,730	8,190	15,062	15,540	21,819	32,630	45,246	58,669	78,324
Mandays of family labor	21	13	13	13	13	16	19	19	19	19	19	19	27
Cumulative mandays	21	34	47	59	72	87	106	124	143	161	180	196	225
Average net return/manday	129	102	91	84	80	94	143	125	153	203	252	290	348
Financial analysis													
Revenue from sales	0	0	0	0	0	4,725	9,450	14,175	18,900	23,625	23,625	23,625	23,625
Cash outflow	8,857	2,676	2,503	2,603	3,714	3,195	3,688	3,688	3,688	4,688	3,688	3,688	5,590
Net cash flow	-8,857	-2,676	-2,503	-2,603	-3,714	1,530	5,762	10,487	15,212	18,937	19,937	19,937	18,035
FIRR =	24%												

Table O.2-33 Financial Model for Durian Production : Silae
(One Hectare)

	YEAR										
	1	2	3	4	5	6	7	8	9	10	11-25
A. LABOUR REQUIREMENT (man-day)											
1. Land clearing/preparation	24										
2. Planting	10										
3. Watering	7										
4. Replanting	0	1									
5. Weeding/fertilizing/spraying	25	25	25	25	25	30	30	30	30	30	30
6. Pruning	4	3	3	3	3	3	3	3	3	3	3
7. Harvesting	0	0	0	0	0	0	8	10	10	10	10
Total md.	70	29	28	28	28	33	41	43	43	43	43
B. INVESTMENT (peso)											
	Qty	Peso/unit	Peso								
1. Gardening tools	1	5,000	5,000								
2. Grafted seedlings (10 x 10)	100	30	3,000								
3. Shading supports	616	1	308								
4. Lining and tying materials	1	200	200								
			8,508								
5. Replanted seedlings	14	30	420								
C. RECURRENT COSTS											
Quantity											
14-14-14 (kg)	8	16	30	30	100	100	300	300	300	350	350
Insecticide (ltr)	1	1	2	2	2	2	2	2	2	2	2
Fungicide (kg)	1	1	2	2	2	2	2	2	2	2	2
Prices (peso/unit)											
14-14-14/kg	6.8										
Insecticide/ltr	340										
Fungicide/kg	340										
Wages (peso/mad/md)											
Hired labor/mad	120										
Hired labor/md	60										
Costs (peso)											
14-14-14	54	109	204	204	680	680	2,040	2,040	2,040	2,380	2,380
Insecticide	340	340	680	680	680	680	680	680	680	680	680
Fungicide	340	340	680	680	680	680	680	680	680	680	680
Labor	4,200	1,740	1,680	1,680	1,680	1,980	2,460	2,580	2,580	2,580	2,580
	4,934	2,529	3,244	3,244	3,720	4,020	5,860	5,980	5,980	6,320	6,320
D. RETURNS											
Production (ton/ha)	0	0	0	0	0	1	1	2	3	3	4
Revenue(peso) at 30,000 Pesoton	0	0	0	0	0	18,000	42,000	54,000	78,000	90,000	120,000
Inflow											
Sales	0	0	0	0	0	18,000	42,000	42,000	42,000	42,000	120,000
Farmer Contribution (Half of labor costs)	2,100	870	840	840	840	990	1,230	1,290	1,290	1,290	1,290
Loan											
- Investment	8,508	420			5,000						
- Working capital	4,934	2,529	3,244	3,244	3,720						
	15,542	3,819	4,084	4,084	9,560	18,990	43,230	43,230	43,230	43,230	121,290
Outflow											
Investment/replacement	8,508	420			5,000					5,000	200
Recurrent costs	4,934	2,529	3,244	3,244	3,720	4,020	5,860	5,860	5,860	5,860	6,320
	13,442	2,949	3,244	3,244	8,720	4,020	5,860	5,860	5,860	10,860	6,520
Net income before debt	2,100	870	840	840	840	14,970	37,370	37,370	37,370	32,370	114,770
Loan outstanding	13,442	19,079	26,139	34,611	50,253	60,304	72,365	54,273	36,181	0	0
Interest due (20%)	2,668	3,816	5,228	6,922	10,051	12,061	14,473	10,855	7,236	0	0
Debt service											
Interest	0	0	0	0	0	0	14,473	10,855	7,236	0	0
Repayment	0	0	0	0	0	0	18,092	18,092	18,092	0	0
Net Income after debt service	2,100	870	840	840	840	14,970	4,895	8,423	12,042	32,370	114,770
Cumulative net income	2,100	2,970	3,810	3,810	4,650	18,780	9,455	27,203	21,497	59,573	124,225
Mandays of family labor	35	15	14	14	14	17	21	21	21	21	22
Cumulative mandays	35	50	64	78	92	108	129	149	170	190	212
Average net return/manday	60	60	60	49	51	174	74	183	127	314	587
Financial analysis											
Revenue from sales	0	0	0	0	0	18,000	42,000	42,000	42,000	42,000	120,000
Cash outflow	13,442	2,949	3,244	3,244	8,720	4,020	5,860	5,860	5,860	10,860	6,520
Net cash flow	-13,442	-2,949	-3,244	-3,244	-8,720	13,980	36,140	36,140	36,140	31,140	113,480
FIRR = 38 %	0.38										

Table 0.2-34 Financial Model for Jackfruit Production at Cotabato

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1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Table O.2-35 Financial Model for Jackfruit Production: Marangog
(One Hectare)

	YEAR												
	1	2	3	4	5	6	7	8	9	10	11	12	13-25
A. LABOUR REQUIREMENT (man-day)													
1. Land clearing/preparation	24												
2. Staking/digging/planting	10												
3. Watering	7												
4. Replanting	0	1											
5. Weeding/fertilization/spraying	18	18	18	18	18	18	18	18	18	18	18	18	18
6. Pruning/fruit thinning	4	8	8	8	8	8	8	8	8	8	8	8	8
7. Harvesting	0	0	0	0	0	12	16	20	30	30	30	30	30
Total mad	24												
Total md	39	27	26	26	26	38	42	46	56	56	56	56	56
B. INVESTMENT (peso)													
	Qty	Pesofunit	Peso										
1. Orchard tools and equipment	1	1,000	1,000										
2. Grafted seedlings	156	30	4,680										
3. Shading supports	156	1	78										
4. Lining and tying materials	1	200	200										
			5,958										
5. Replanted seedlings	14	30	420										
C. RECURRENT COSTS													
Quantity													
14-14-14 (kg)	200	50	60	70	80	100	120	140	160	180	200	200	200
Wrapping materials (ea)	0	0	0	0	0	1,000	2,000	3,000	4,500	5,000	5,000	5,000	5,000
Prices (pesofunit)													
14-14-14/kg	6.8												
Wrapping materials	0.1												
Wages (peso/md)													
Hired labor/md	120												
Hired labor/md	60												
Costs (peso)													
Fertilizer	1,360	340	408	476	544	680	816	952	1,088	1,224	1,360	1,360	1,360
Wrapping materials	0	0	0	0	0	100	200	300	450	500	500	500	500
Labor	5,220	1,620	1,560	1,560	1,560	2,280	2,520	2,760	3,360	3,360	3,360	3,360	3,360
	6,580	1,960	1,968	2,036	2,104	3,060	3,536	4,012	4,898	5,084	5,220	5,220	5,220
D. RETURNS													
Production (Ton/ha)	0	0	0	0	0	3.3	3.8	5.8	6.6	7.5	7.5	7.5	7.5
Revenue(peso 5,000 Pesofon)	0	0	0	0	0	16,500	19,000	29,000	33,000	37,500	37,500	37,500	37,500
Cash Flow Projections													
Inflow													
Sales	0	0	0	0	0	16,500	19,000	19,000	19,000	19,000	37,500	37,500	37,500
Farmer Contribution (Half of labor costs)	2,610	810	780	780	780	1,140	1,260	1,380	1,680	1,680	1,680	1,680	1,680
Loan													
- Investment	5,958	420			1,000								
- Working capital	6,580	1,960	1,968	2,036	2,104	3,060							
Total Inflow	15,148	3,190	2,748	2,816	3,884	20,700	20,260	20,260	20,260	20,260	39,180	39,180	39,180
Outflow													
Investment/replacement	5,958	420			1,000					1,000	200	200	200
Recurrent costs	6,580	1,960	1,968	2,036	2,104	3,060	3,536	3,536	3,536	3,536	5,220	5,220	5,220
Total Outflow	12,538	2,380	1,968	2,036	3,104	3,060	3,536	3,536	3,536	4,536	5,420	5,420	5,420
Net income before debt	2,610	810	780	780	780	17,640	16,724	16,724	16,724	15,724	33,760	33,760	33,760
Loan outstanding	12,538	17,426	22,879	29,491	38,493	49,252	42,216	35,180	28,144	21,108	14,072	7,036	0
Interest due (20%)	2,508	3,485	4,576	5,838	7,699	9,850	8,443	7,036	5,629	4,222	2,814	1,407	0
Debt service													
Interest	0	0	0	0	0	9,850	8,443	7,036	5,629	4,222	2,814	1,407	0
Repayment	0	0	0	0	0	7,036	7,036	7,036	7,036	7,036	7,036	7,036	0
Net income after debt service	2,610	810	780	780	780	754	1,245	2,652	4,059	4,466	23,910	25,317	33,760
Cumulative net income	2,610	3,420	4,200	4,200	4,980	4,954	6,225	7,606	10,284	12,072	30,135	32,923	44,044
Mandays of family labor	20	14	13	13	13	19	21	21	21	21	28	28	28
Cumulative mandays	20	33	46	59	72	91	112	133	154	175	203	231	259
Average net return/manday	134	104	91	71	69	54	56	57	67	69	148	143	170
Financial analysis													
Revenue from sales	0	0	0	0	0	16,500	19,000	19,000	19,000	19,000	37,500	37,500	37,500
Cash outflow	12,538	2,380	1,968	2,036	3,104	3,060	3,536	3,536	3,536	4,536	5,420	5,420	5,420
Net cash flow	-12,538	-2,380	-1,968	-2,036	-3,104	13,440	15,464	15,464	15,464	14,464	32,080	32,080	32,080
FIRR =	23 %	0.23											

Table 0.2-36 Financial Model for Bagras Forestation (Limited Production)
(One Hectare)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1. Staking, digging, planting															
2. Weeding															
3. Replanting															
4. Weeding															
5. Pruning															
B. INVESTMENT (aids)															
1. Forest tools	QTY	Price	Cost												
2. Staking (0.5 x 1 m)	433	2.50	1,083												
3. Staking support	833	0.50	417												
4. Aerial top as living materials (m)	120	8.00	960												
5. Reprinted seedlings	54	3.50	189												
C. RECURRENT COSTS															
Quantity															
Fertilizer	50	100													
D. RETURNS															
Production															
Forewood															
Poles															
Sawing															
Revenue															
Forewood at															
Poles at															
Sawing at															
E. CASH FLOW PROJECTIONS															
Initial															
Sales															
Farmer Contribution															
(half of labor costs)															
Loan															
- Investment															
- Working capital															
Total inflow															
Outflow															
Investment															
Recurrent costs															
Total outflow															
Net income before debt															
Loan outstanding															
Interest due (20%)															
Net income															
F. FINANCIAL ANALYSIS															
Net income after debt service															
Contribution net income															
Man-days of family labor															
Cumulative man-days															
Average net return/man-day															
G. FINANCIAL ANALYSIS															
Revenue from sales															
Cash outflow															
Net cash flow															
PIRRe															

Note: Use average price = market price less hauling, transport, sawing, etc. (if any).

[illegible]

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Table O.2-38 Financial Model for Bagalinga Forestation: Marangog
(One Hectare)

	YEAR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1 Staking/digging/planting	40														
2 Watering	2														
3 Replanting	0	1													
4 Weeding	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4
5 Pruning	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6
Total md	50	9	8	10	10	10	10	10	10	10	10	10	10	10	10
B. INVESTMENT (peso)															
1 Forest tools	Qty	Peso/Unit	Peso												
2 Seedling (3 x 4 m)	833	250	2,083												
3 Shading support	833	0.50	417												
4 Abaca rope as tying materials (m)	120	8.00	960												
5 Replanted seedlings	58	2.50	145												
C. RECURRENT COSTS															
Quantity															
Fertilizer	50	100													
Prices (peso/unit)															
Fertilizer (kg)	6.80														
Hired labor (md)	60.00														
Costs (peso)															
Fertilizer	340	680	0	0	0	0	0	0	0	0	0	0	0	0	0
Labor	3,000	540	480	600	600	600	600	600	600	600	600	600	600	600	600
Misc. to match DENR figures	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
	3,875	1,755	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
D. RETURNS															
Production															
Poles (cu m)	0	0	0	0	0	0	16.6	0	0	0	0	0	0	0	56
Fuelwoods (cu m)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Revenue															
Poles at 1,018 Pkum	0	0	0	0	0	0	16,899	0	0	0	0	0	0	0	57,790
Fuelwood at 85 Pkum	0	0	0	0	0	0	16,899	0	0	0	0	0	0	0	57,110
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	680
Cash Flow Projections															
Inflow															
Sales	0	0	0	0	0	0	16,899	0	0	0	0	0	0	0	57,790
Farmer Contribution (Half of labor costs)	1,500	270	240	300	300	300	300	300	300	300	300	300	300	300	300
Loan															
- Investment	4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
- Working capital	3,875	1,755	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Total Inflow	9,834	2,170	1,255	1,435	1,435	1,435	18,334	1,435	1,435	1,435	1,435	1,435	1,435	1,435	58,225
Outflow															
Investment	4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
Recurrent costs	3,875	1,755	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Total Outflow	8,334	1,900	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Net income before debt	1,500	270	240	300	300	300	17,199	300	300	300	300	300	300	300	58,090
Loan outstanding	8,334	10,234	11,249	12,384	13,519	14,654	15,789	16,924	18,059	19,194	20,329	21,464	22,599	23,734	24,869
Interest due 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Debt service															
Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repayment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24,870
1/ Assuming interest-free loans															
Net income after debt service	1,500	270	240	300	300	300	17,199	300	300	300	300	300	300	300	33,220
Cumulative net income	1,500	1,770	2,010	2,310	2,610	2,910	20,109	20,409	20,709	21,009	21,309	21,609	21,909	22,209	56,429
Mandays of family labor	25	5	4	5	5	5	5	5	5	5	5	5	5	5	5
Cumulative mandays	25	30	34	39	44	49	54	59	64	69	74	79	84	89	94
Average net return/manday	60	60	60	60	60	60	376	349	326	307	290	275	262	251	593
Financial analysis															
Revenue from sales	0	0	0	0	0	0	16,899	0	0	0	0	0	0	0	57,790
Cash outflow	8,334	1,900	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Net cash flow	-8,334	-1,900	-1,015	-1,135	-1,135	-1,135	15,764	-1,135	-1,135	-1,135	-1,135	-1,135	-1,135	-1,135	56,655
FIRR =	15 %														

Note: Use stumpage price = market price less hauling, transport, sawing/feeling/bucking

**Table O.2-39 Financial Model for Flemingia Hedgerow Planting at Sappaac
(One Hectare)**

	YEAR				
	1	2	3	4	5-15
A. LABOUR REQUIREMENT (man-day)					
1. Staking, digging, planting basal fertilization	10				
2. Replanting		1	0	0	0
Total md.	10	1	0	0	0
B. INVESTMENT (peso)					
	Qty	Peso/unit	Peso		
1. Forest tools (set)	1	1,000	1,000		
2. Seedling (1 x 5 m)	1,800	1.00	1,800		
			2,800		
3. Replanted seedlings (7 % of total)	252	1.00	252		
C. RECURRENT COSTS					
Prices					
Hired labor(peso/md)	70				
Costs (peso)					
Labor (peso)	700	70	0	0	0
	700	70	0	0	0
D. RETURNS					
No direct return is expected as Flemingia will be grown as hedgrows for the benefits of other fruit trees and crops to which the production costs of Flemingia will be allocated.					
E. TOTAL COSTS					
Investment	2,800	252	0	0	0
Recurrent costs	700	70	0	0	0
Total Costs	3,500	322	0	0	0

Table O.2-40 Financial Model for Flemingia Forestation: Cofcaville
(One Hectare)

	YEAR				
	1	2	3	4	5-15
A. LABOUR REQUIREMENT (man-day)					
1. Staking, digging, planting basal fertilization	10				
2. Replanting		1	0	0	0
Total md.	10	1	0	0	0
B. INVESTMENT (peso)					
	Qty	Peso/unit	Peso		
1. Forest tools (set)	1	1,000	1,000		
2. Seedling (1 x 5 m)	1,800	1.00	1,800		
			2,800		
3. Replanted seedlings (7 % of total)	252	1.00	252		
C. RECURRENT COSTS					
Prices					
Hired labor (at peso/md)	60				
Costs (peso)					
Labor (peso)	600	60	0	0	0
	600	60	0	0	0
D. RETURNS					
No directed return is expected as Flemingia will be grown as hedgrows for the benefits of other fruit trees and crops to which the production cost of Flemingia will be allocated.					
E. TOTAL COSTS					
Investment	2,800	252	0	0	0
Recurrent costs	600	60	0	0	0
Total Costs	3,400	312	0	0	0

**Table O.2-41 Financial Model for Flemingia Forestation: Marangog
(One Hectare)**

	YEAR				
	1	2	3	4	5-15
A. LABOUR REQUIREMENT (man-day)					
1. Staking, digging, planting basal fertilization	10				
2. Replanting		1	0	0	0
Total md.	10	1	0	0	0
B. INVESTMENT (peso)					
	<u>Qty</u>	<u>Peso/unit</u>	<u>Peso</u>		
1. Forest tools (set)	1	1,000	1,000		
2. Seedling (1 x 5 m)	1,800	1.00	1,800		
			<u>2,800</u>		
3. Replanted seedlings (7% of total)	252	1.00	252		
C. RECURRENT COSTS					
Prices					
Hired labor (at peso/md)	60				
Costs (peso)					
Labor (peso)	600	60	0	0	0
	<u>600</u>	<u>60</u>	<u>0</u>	<u>0</u>	<u>0</u>
D. RETURNS					
No directed return is expected as Flemingia will be grown as hedgrows for the benefits of other fruit trees and crops to which the production costs of Flemingia will be allocated.					
E. TOTAL COSTS					
Investment	2,800	252	0	0	0
Recurrent costs	600	60	0	0	0
Total Costs	<u>3,400</u>	<u>312</u>	<u>0</u>	<u>0</u>	<u>0</u>

**Table O.2-42 Financial Model for Flemingia Forestation: Silae
(One Hectare)**

	YEAR				
	1	2	3	4	5-15
A. LABOUR REQUIREMENT (man-day)					
1. Staking, digging, planting basal fertilization	10				
2. Replanting		1	0	0	0
Total md.	10	1	0	0	0
B. INVESTMENT (peso)					
	<u>Qty</u>	<u>Peso/unit</u>	<u>Peso</u>		
1. Forest tools (set)	1	1,000	1,000		
2. Seedling (1 x 5 m)	1,800	1.00	1,800		
			<u>2,800</u>		
3. Replanted seedlings (7% of total)	252	1.00	252		
C. RECURRENT COSTS					
Prices					
Hired labor (at peso/md)	70				
Costs (peso)					
Labor (peso)	700	70	0	0	0
	700	70	0	0	0
D. RETURNS					
No directed return is expected as Flemingia will be grown as hedgrows for the benefits of other fruit trees and crops to which the production costs of Flemingia will be allocated.					
E. TOTAL COSTS					
Investment	2,800	252	0	0	0
Recurrent costs	700	70	0	0	0
Total Costs	3,500	322	0	0	0

Table O.2-43 Financial Model for Gemelina Forestation at Cofcaville
(One Hectare)

		YEAR														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)																
1. Staking, digging, planting		40														
basal fertilization		2														
2. Watering		0	1													
3. Replanting		8	8	8	4	4	4	4	4	4	4	4	4	4	4	4
4. Weeding		0	0	0	6	6	6	6	6	6	6	6	6	6	6	6
5. Pruning		0	0	0												
Total md		50	9	8	10	10	10	10	10	10	10	10	10	10	10	10
B. INVESTMENT (peso)																
		Qty	Peso/Unit	Peso												
1. Forest tools		1	1,000	1,000												
2. Seedling (3 x 4 m)		833	2.50	2,083												
3. Shading support		833	0.50	417												
4. Abaca rope as tying materials (m)		120	8.00	960												
				4,459												
5. Replanted seedlings (7%)		58	2.50	145												
C. RECURRENT COSTS																
Quantity		50	100													
Fertilizer																
Prices (peso/unit)																
14-14-14 (kg)	6.90															
Hired labor (md)	60.00															
Costs (peso)																
Fertilizer		345	690	0	0	0	0	0	0	0	0	0	0	0	0	0
Labor		3,000	540	480	600	600	600	600	600	600	600	600	600	600	600	600
Misc.		535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
		3,880	1,765	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
D. RETURNS																
Production																
Fuelwood (cum)	(cum)	0	0	0	0	0	0	10.8	0	0	0	0	0	0	0	0
Poles (cum)	(cum)	0	0	0	0	0	0	0	0	0	20.8	0	0	0	0	0
Sawlog (cum)	(cum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	51.7
Revenue		0	0	0	0	0	0	810	0	0	18,574	0	0	0	0	149,516
Fuelwood at 75 P/cum	75 P/cum	0	0	0	0	0	0	810	0	0	0	0	0	0	0	0
Poles at 893 P/cum	893 P/cum	0	0	0	0	0	0	0	0	0	18,574	0	0	0	0	0
Sawlog at 2,892 P/cum	2,892 P/cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149,516
Cash Flow Projections																
Inflow																
Sales		0	0	0	0	0	0	810	0	0	18,574	0	0	0	0	149,516
Farmer Contribution (Half of labor costs)		1,500	270	240	300	300	300	300	300	300	300	300	300	300	300	1,435
Loan																
- Investment		4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
- Working capital		3,880	1,765	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	0
Total Inflow		9,839	2,180	1,255	1,435	1,435	1,435	2,245	1,435	1,435	20,009	1,435	1,435	1,435	1,435	150,951
Outflow																
Investment		4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
Recurrent costs		3,880	1,765	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Total Outflow		8,339	1,910	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Net income before debt		1,500	270	240	300	300	300	1,110	300	300	18,874	300	300	300	300	149,816
Loan outstanding		8,339	10,249	11,264	12,399	13,534	14,669	15,804	16,939	18,074	19,209	20,344	21,479	22,614	23,749	23,749
Interest due 1/		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Debt service																
Interest		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repayment		0	0	0	0	0	0	0	0	0	0	0	0	0	0	23,750
1/ Suggesting interest-free loan.																
Net income after debt service		1,500	270	240	300	300	300	1,110	300	300	18,874	300	300	300	300	126,066
Cumulative net income		1,500	1,770	2,010	2,310	2,610	2,910	4,020	4,320	4,620	23,494	23,794	24,094	24,394	24,694	150,761
Mandays of family labor		25	5	4	5	5	5	5	5	5	5	5	5	5	5	5
Cumulative mandays		25	30	34	39	44	49	54	59	64	69	74	79	84	89	94
Average net return/manday		60	60	60	60	60	60	75	74	73	343	324	307	292	279	1,612
Financial analysis																
Revenue from sales		0	0	0	0	0	0	810	0	0	18,574	0	0	0	0	149,516
Cash outflow		8,339	1,910	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Net cash flow		-8,339	-1,910	-1,015	-1,135	-1,135	-1,135	-325	-1,135	-1,135	17,439	-1,135	-1,135	-1,135	-1,135	148,381
FIRR =	21 %															

Note: Use stumpage price = market price less hauling, transport, sawing/feeling/bucking.

Table O.2-44 Financial Model for Gemelina Forestation: Marangog
(One Hectare)

	YEAR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1. Staking, digging, planting	40														
2. Watering	2														
3. Replanting	0	1													
4. Weeding	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4
5. Pruning	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6
Total md	50	9	8	10	10	10	10	10	10	10	10	10	10	10	10
B. INVESTMENT (peso)															
1. Forest tools	1	1,000	1,000												
2. Seedling (3 x 4 m)	833	2 50	2,083												
3. Shading support	833	0 50	417												
4. Apece rope as tying materials (m)	120	8 00	960												
5. Replanted seedlings	58	2 50	145												
C. RECURRENT COSTS															
Quantity															
Fertilizer	50	100													
Prices (peso/unit)															
Fertilizer (kg)	6 80														
Hired labor (md)	60 00														
Costs (peso)															
Fertilizer	340	680	0	0	0	0	0	0	0	0	0	0	0	0	0
Labor	3,000	540	480	600	600	600	600	600	600	600	600	600	600	600	600
Misc	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
	3,875	1,755	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
D. RETURNS															
Production															
Fuelwood (cum)	0	0	0	0	0	0	10 8	0	0	0	0	0	0	0	0
Poles (cum)	0	0	0	0	0	0	0	0	0	20 8	0	0	0	0	0
Sawlog (cum)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Revenue															
Fuelwood at 85 P/cum	0	0	0	0	0	0	918	0	0	21,174	0	0	0	0	152,153
Poles at 1,018 P/cum	0	0	0	0	0	0	918	0	0	0	0	0	0	0	152,153
Sawlog at 2,943 P/cum	0	0	0	0	0	0	0	0	0	21,174	0	0	0	0	0
E. Cash Flow Projections															
Inflow															
Sales	0	0	0	0	0	0	918	0	0	21,174	0	0	0	0	152,153
Farmer Contribution (Half of labor costs)	1,500	270	240	300	300	300	300	300	300	300	300	300	300	300	1,435
Loan															
- Investment	4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
- Working capital	3,875	1,755	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	0
Total Inflow	9,834	2,170	1,255	1,435	1,435	1,435	2,353	1,435	1,435	22,609	1,435	1,435	1,435	1,435	153,588
Outflow															
Investment	4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
Recurrent costs	3,875	1,755	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Total Outflow	8,334	1,900	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Net income before debt	1,500	270	240	300	300	300	1,218	300	300	21,474	300	300	300	300	152,453
Loan outstanding	8,334	10,234	11,249	12,384	13,519	14,654	15,789	16,924	18,059	19,194	20,329	21,464	22,599	23,734	23,734
Interest due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Debt service															
Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repayment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net income after debt service	1,500	270	240	300	300	300	1,218	300	300	21,474	300	300	300	300	152,453
Cumulative net income	1,500	1,770	2,010	2,310	2,610	2,910	4,128	4,428	4,728	26,202	26,502	26,802	27,102	27,402	179,856
Mandays of family labor	25	5	4	5	5	5	5	5	5	5	5	5	5	5	5
Cumulative mandays	25	30	34	39	44	49	54	59	64	69	74	79	84	89	94
Average net return/manday	60	60	60	60	60	60	77	76	74	383	361	341	325	310	1,924
Financial analysis															
Revenue from sales	0	0	0	0	0	0	918	0	0	21,174	0	0	0	0	152,153
Cash outflow	8,334	1,900	1,015	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Net cash flow	-8,334	-1,900	-1,015	-1,135	-1,135	-1,135	-217	-1,135	-1,135	20,039	-1,135	-1,135	-1,135	-1,135	151,018
FIRR =	22 %														

Note: Use stumpage price = market price less hauling, transport, sawing/elling/bucking

Table O.2-45 Financial Model for Gemelina Forestation : Silae
(One Hectare)

	YEAR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1. Staking digging planting basal fertilization	40														
2. Watering	2														
3. Replanting	0	1													
4. Weeding	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4
5. Pruning	0	0	0	8	6	6	6	6	6	6	6	6	6	6	6
Total md.	50	9	8	10	10	10	10	10	10	10	10	10	10	10	10
B. INVESTMENT (peso)															
	Qty	Peso/Unit	Peso												
1. Forest tools	1	1,000	1,000												
2. Seeding (3 x 4 m)	833	2.50	2,083												
3. Shading support	833	0.50	417												
4. Abaca rope as tying materials (m)	120	8.00	960												
5. Replanted seedlings	58	2.50	145												
C. RECURRENT COSTS															
Quantity															
Fertilizer	50	100													
Prices (peso/unit)															
Fertilizer (kg)	6.80														
Hired labor (md)	70.00														
Costs (peso)															
Fertilizer	340	680	0	0	0	0	0	0	0	0	0	0	0	0	0
Labor	3,500	630	560	700	700	700	700	700	700	700	700	700	700	700	700
Misc.	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
	4,375	1,845	1,095	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
D. RETURNS															
Production															
Fuelwood (cu m)	0	0	0	0	0	0	10.8	0	0	0	0	0	0	0	0
Poles (cu m)	0	0	0	0	0	0	0	0	0	20.8	0	0	0	0	0
Sawlog (cu m)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51.7
Revenue															
Fuelwood at 75 P/cu m	0	0	0	0	0	0	810	0	0	20,675	0	0	0	0	115,188
Poles at 994 P/cu m	0	0	0	0	0	0	810	0	0	0	0	0	0	0	0
Sawlog at 2,228 P/cu m	0	0	0	0	0	0	0	0	0	20,675	0	0	0	0	115,188
Cash Flow Projections															
Inflow															
Sales	0	0	0	0	0	0	810	0	0	20,675	0	0	0	0	115,188
Farmer Contribution (Half of labor costs)	1,750	315	280	350	350	350	350	350	350	350	350	350	350	350	1,485
Loan															
- Investment	4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
- Working capital	4,375	1,845	1,095	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	0
Total Inflow	10,584	2,305	1,375	1,585	1,585	1,585	2,365	1,585	1,585	22,260	1,585	1,585	1,585	1,585	116,673
Outflow															
Investment	4,459	145	0	0	0	0	0	0	0	0	0	0	0	0	0
Recurrent costs	4,375	1,845	1,095	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
Total Outflow	8,834	1,990	1,095	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
Net income before debt	1,750	315	280	350	350	350	1,130	350	350	21,025	350	350	350	350	115,438
Loan outstanding	8,834	10,824	11,919	13,154	14,389	15,624	16,859	18,094	19,329	20,564	21,799	23,034	24,269	25,504	26,739
Interest due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Debt service															
Interest 0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repayment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,506
Net income after debt service	1,750	315	280	350	350	350	1,130	350	350	21,025	350	350	350	350	89,933
Cumulative net income	1,750	2,065	2,345	2,665	3,045	3,395	4,565	4,905	5,255	28,280	26,630	26,980	27,330	27,680	117,613
Mondays of family labor	25	5	4	5	5	5	5	5	5	5	5	5	5	5	5
Cumulative mandays	25	30	34	39	44	49	54	59	64	69	74	79	84	89	94
Average net return/manday	70	70	70	70	70	70	85	84	83	384	382	344	327	313	1,258
Financial analysis															
Revenue from sales	0	0	0	0	0	0	810	0	0	20,675	0	0	0	0	115,188
Cash outflow	8,834	1,990	1,095	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
Net cash flow	-8,834	-1,990	-1,095	-1,235	-1,235	-1,235	-425	-1,235	-1,235	19,440	-1,235	-1,235	-1,235	-1,235	113,953
FIRR =	19 %														

Note: Use stumpage price = market price less hauling, transport, sawing/felling/bucking

Table O.2-46 Financial Model for Kakawate Forestation at Sappasec
(One Hectare)

	YEAR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1. Site preparation	60														
2. Weeding	2														
3. Replanting	0	1													
4. Weeding	0	8													
Totals	70	9	8	4	4	4	4	4	4	4	4	4	4	4	4
B. INVESTMENT (peso)															
1. Forest tools	900	1,000													
2. Seedling (1 x 10 m)	0	100													
3. Replanted seedlings	60	100													
0.57 of all															
C. RECURRENT COSTS															
Prices (peso/unit)															
Hired labor (at peso/day)															
Care (peso)	4,900	630	560	280	280	280	280	280	280	280	280	280	280	280	280
Labor	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
Misc.	5,435	1,165	1,095	815	815	815	815	815	815	815	815	815	815	815	815
70															
D. RETURNS															
Production	0	0	0	9.0	0	0	0	0	0	0	0	0	0	0	0
Fuelwood	0	0	0	765	0	0	0	0	0	0	0	0	0	0	0
Revenue	0	0	0	765	0	0	0	0	0	0	0	0	0	0	0
Fuelwood at	0	0	0	765	0	0	0	0	0	0	0	0	0	0	0
85 Picum															
E. CASH FLOW PROJECTIONS															
Initial	0	0	0	765	0	0	0	0	0	0	0	0	0	0	0
Sales	2,450	315	280	140	140	140	140	140	140	140	140	140	140	140	140
Farmer Contribution	1,900	43	0	0	0	0	0	0	0	0	0	0	0	0	0
(Half of labor costs)	5,435	1,165	1,095	815	815	815	815	815	815	815	815	815	815	815	815
Loan	9,785	1,543	1,375	1,205	965	965	965	965	965	965	965	965	965	965	965
- Investment															
- Working capital															
Total Inflow															
Outflow	1,900	43	0	0	0	0	0	0	0	0	0	0	0	0	0
Investment	5,435	1,165	1,095	815	815	815	815	815	815	815	815	815	815	815	815
Recurrent costs	7,335	1,228	1,095	815	815	815	815	815	815	815	815	815	815	815	815
Total Outflow															
Net income before debt	2,450	315	280	905	140	140	140	140	140	140	140	140	140	140	140
Loan outstanding	7,335	8,563	9,658	10,473	11,288	12,103	12,918	13,733	14,548	15,363	16,178	16,993	17,808	18,623	19,438
Interest due	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEBT SERVICE															
Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repayment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.000															
Net income after debt service	2,450	315	280	905	140	140	140	140	140	140	140	140	140	140	140
Cumulative net income	2,450	2,765	3,045	3,950	4,090	4,230	4,370	4,510	4,650	4,790	4,930	5,070	5,210	5,350	5,490
Manpower of family labor	30	30	40	44	48	52	56	60	64	68	72	76	80	84	88
Cumulative man-days	30	40	70	87	96	96	85	84	84	83	83	82	82	81	81
Average net man-day															
Financial Analysis															
Revenue from sales	7,335	1,228	1,095	765	815	815	815	815	815	815	815	815	815	815	815
Cash outflow	-7,335	-1,228	-1,095	-50	-815	-815	-815	-815	-815	-815	-815	-815	-815	-815	-815
Net cash flow															
FIRR *															

Very low-regarded as costs to other crops grown in the same area.

Note: Use surplussage price = market price less hauling/transport/sawing/celling/buying

Table O.2-47 Financial Model for Kakawate Forestation at Cotacaville
(One Hectare)

	YEAR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1. Site prep, digging, planting															
Seed fertilization	60														
2. Weeding	0														
3. Replanting	0	1													
4. Weeding	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4
Total md.	70	0	0	4	4	4	4	4	4	4	4	4	4	4	4
B. INVESTMENT (peso)															
1. Forest lands															
Seedling (1 x 10 m)	900	1,000	1,000												
2. Seedling (1 x 10 m)	900	1,000	900												
3. Replanted seedlings	63	1,000	63												
C. RECURRENT COSTS															
Pesticides (prescribed)															
Fertilizer (not prescribed)															
Labor (not prescribed)															
Costs (peso)															
Labor	4,200	540	480	240	240	240	240	240	240	240	240	240	240	240	240
Misc.	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
Total	4,735	1,075	1,015	775	775	775	775	775	775	775	775	775	775	775	775
D. RETURNS															
Production															
Fuelwood	0	0	0	9.0											
Revenue	0	0	0	785											
Fuelwood at	0	0	0	785											
E. CASH FLOW PROJECTIONS															
Sales	0	0	0	785											
Pesticide Contribution	2,100	270	240	120	120	120	120	120	120	120	120	120	120	120	120
Pesticide Contribution (Half of labor costs)	1,900	63	0	0	0	0	0	0	0	0	0	0	0	0	0
Loan	4,735	1,075	1,015	775	775	775	775	775	775	775	775	775	775	775	775
Working capital	6,735	1,408	1,255	1,550	885	885	885	885	885	885	885	885	885	885	885
Total inflow	1,900	63	0	0	0	0	0	0	0	0	0	0	0	0	0
Outflow	4,735	1,075	1,015	775	775	775	775	775	775	775	775	775	775	775	775
Net income before debt	2,100	270	240	120	120	120	120	120	120	120	120	120	120	120	120
Loan outstanding	6,635	7,775	6,766	5,563	10,338	11,113	11,688	12,863	13,438	14,213	14,988	15,763	16,538	17,313	18,088
Interest due 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recapitalization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/ Supporting interest-free loans	2,100	270	240	120	120	120	120	120	120	120	120	120	120	120	120
Net income after debt service	2,100	270	240	120	120	120	120	120	120	120	120	120	120	120	120
Cumulative net income	35	5	4	2	2	2	2	2	2	2	2	2	2	2	2
Cumulative net income	35	5	4	2	2	2	2	2	2	2	2	2	2	2	2
Cumulative net income	35	5	4	2	2	2	2	2	2	2	2	2	2	2	2
Average net return	60	60	60	77	78	75	74	74	74	73	73	72	72	72	71
Financial analysis	0	0	0	785	0	0	0	0	0	0	0	0	0	0	0
Revenue from sales	8,835	1,136	1,015	775	775	775	775	775	775	775	775	775	775	775	775
Cash outflow	-8,835	-1,136	-1,015	-10	-775	-775	-775	-775	-775	-775	-775	-775	-775	-775	-775
Net cash flow	0	0	0	765	0	0	0	0	0	0	0	0	0	0	0
FIRR (%)															

Note: Use surrogate prices = market prices less hauling, transport, savings/losses.

Table O.2-48 Financial Model Model for Kakawate Forestation : Silae
(One Hectare)

	YEAR														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A. LABOUR REQUIREMENT (man-day)															
1. Strong logging/planting	90														
2. Weeding	0														
3. Replanting	0														
4. Weeding	0														
Total md	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B. INVESTMENT (peso)															
1. Forest tools	1,000														
2. Seeding (1 x 10 m)	900														
3. Replanted seedlings	63														
Total	2,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C. RECURRENT COSTS															
Price (peso/unit)															
Hired labor(at peso/md)															
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. RETURNS															
Production															
Fuelwood															
Revenue															
Fuelwood at															
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E. CASH FLOW PROJECTIONS															
Initial															
Sales															
Farmer Contribution															
(half of labor cost)															
Loan															
- Investment															
- Working Capital															
Total Inflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net income before debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Loan outstanding															
Interest due															
Debt at 10%															
Interest															
Repayment															
Net income after debt service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative net income															
Mortgage of family labor															
Cumulative mortgage															
Average net return/mortgage															
Expanded Analysis															
Revenue from sales															
Cash outflow															
Net cash flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FIRR (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Use surrogate price = market price less hauling, transport, unloading/emptying.

Table O.2-50 Financial Model for Mahogany Forestation: Cofcaville
(One Hectare)

		YEAR																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-24	25	
A. LABOUR REQUIREMENT (man-day)																			
1. Staking, digging, planting, basal fertilization		40																	
2. Weeding		2																	
3. Replanting		0	1																
4. Weeding		8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
5. Pruning		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total md		50	9	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
B. INVESTMENT (peso)																			
		Qr	Passado	Peso															
1. Forest tools		1	1,000	1,000															
2. Seedling (3 x 4 m)		833	250	2,083															
3. Shading support		833	0.50	417															
4. Abaca rope as tying materials (m)		120	8.00	960															
				4,458															
5. Replanted seedlings		58	250	145															
C. RECURRENT COSTS																			
Quantity																			
Fertilizer		50	100																
Prices (peso/unit)																			
Fertilizer (kg)		8.00																	
Hired labor (md)		80.00																	
Costs (peso)																			
Fertilizer		345	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Labor		3,000	540	240	800	600	600	600	600	600	600	600	600	600	600	600	600	600	
Misc		535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	
		3,880	1,765	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	
D. RETURNS																			
Trees to be cut																			
Production																			
Fuelwood (cu m)		0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	134	0	
Poles (cu m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	0	
Sawlog (cu m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Revenue		0	0	0	0	0	595	0	0	0	0	0	0	0	0	0	10,767	0	
Fuelwood at 85 P/ow m		0	0	0	0	0	595	0	0	0	0	0	0	0	0	0	0	0	
Poles at 1,313 P/ow m		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,767	0	
Sawlog at 4,252 P/ow m		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cash Flow Projections																			
Inflow																			
Sales		0	0	0	0	0	595	0	0	0	0	0	0	0	0	0	10,767	0	
Farmer Contribution (Profit of labor costs)		1,500	270	120	300	300	300	300	300	300	300	300	300	300	300	300	300	300	
Loan		4,459	145																
Investment		3,880	1,765	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	
Working capital		3,880	1,765	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	
Total Inflow		6,839	2,160	895	1,435	1,435	2,030	1,435	1,435	1,435	1,435	1,435	1,435	1,435	1,435	1,435	12,202	1,435	
Outflow																			
Investment		4,459	145																
Recurrent costs		3,880	1,765	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	
Total Outflow		8,339	1,910	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	
Net Income before debt		1,500	270	120	300	300	895	300	300	300	300	300	300	300	300	300	11,067	300	
Loan outstanding		8,339	11,817	15,875	19,225	24,206	30,181	37,353	45,958	56,265	68,877	83,547	101,391	122,805	148,500	179,336	218,336	290,734	
Interest due at 20 %		1,688	2,383	3,015	3,845	4,841	6,036	7,471	9,197	11,257	13,735	16,709	20,278	24,561	29,700	35,687	43,268	52,147	
Debt service																			
Interest		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Repayment		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Net Income after debt service		1,500	270	120	300	300	895	300	300	300	300	300	300	300	300	300	11,067	300	
Cumulative net income		1,500	1,770	1,890	2,190	2,490	3,385	3,685	3,985	4,285	4,585	4,885	5,185	5,485	5,785	6,085	17,152	35,631	
Mandays of family labor		25	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Cumulative mandays		25	30	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	
Average net return/manday		60	60	60	60	60	73	72	71	70	69	68	67	66	65	64	178	351	
Financial analysis																			
Revenue from sales		0	0	0	0	0	595	0	0	0	0	0	0	0	0	0	10,767	0	
Cash outflow		8,339	1,910	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	
Net cash flow		8,339	1,910	775	1,135	1,135	540	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	0,632	329,932	
FIRR =		23 %																	

Note: Use stumpage price = market price less hauling, transport, sawing, milling, bucking.

Table O.3-61 Financial Model for Mahogany Forestation (Limited Production) : Marangos

		Year																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A. CREDIT REQUIREMENT (mm/day)																					
1. Subsidy requirement		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. Subsidy requirement		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Subsidy requirement		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Subsidy requirement		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Subsidy requirement		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total sub.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B. INVESTMENT (mm)																					
1. Forest land	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2. Seedling (3.4 m)	833	2,500	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083	2,083
3. Shading support	833	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
4. Above rise in lying materials (m)	120	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
5. Replanted seedlings	56	2.50	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
Total inv.	3,000	6,083	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569	5,569
C. RECURRENT COSTS																					
Quantity	50	100																			
Fertilizer																					
Price (mm/ha)																					
Fertilizer (mm)																					
Costs (mm)	340	680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fertilizer	3,000	540	240	800	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Labor	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535
Misc.	3,075	1,755	775	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135
Total cost	22,268																				
D. RETURNS																					
There is no	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fertilizer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fertilizer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saving	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revenue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fertilizer at	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Price	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saving at	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total return	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E. Cash Flow Projections																					
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Net Income	1,500	270	120	120	12																

		YEAR																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16-24	25	
A. CASH REQUIREMENT (mm/day)																			
1. Starting digging/planting																			
2. Weeding																			
3. Weeding																			
4. Weeding																			
5. Pruning																			
Total m/c																			
B. INVESTMENT (mm)																			
1. Forest (mm)																			
2. Seedling (3.4 m)																			
3. Seedling support																			
4. Above type as young materials (m)																			
5. Required seedlings																			
C. RECURRENT COSTS																			
Fertilizer																			
Price (mm/mm)																			
Head labor (mm)																			
Costs (mm)																			
Fertilizer																			
Labor																			
Misc.																			
D. RETURNS																			
Trees to be cut																			
Production																			
Fertilizer (mm)																			
Poles																			
Savings																			
Revenue																			
Fertilizer at																			
Cutting at																			
Cash Flow Projections																			
M/C																			
Sales																			
Fertilizer Contribution																			
(Net of labor costs)																			
Loan																			
Investment																			
Working capital																			
Total inflow																			
Outflow																			
Investment																			
Resistant costs																			
Total Outflow																			
Net income before debt																			
Loan outstanding																			
Interest due																			
DEBT SERVICE																			
Repayment																			
Net income after debt service																			
Cumulative net income																			
Mortgage of family labor																			
Cumulative mortgage																			
Average net return/mortgage																			
FINANCIAL SUMMARY																			
Revenue from sales																			
Cash outflow																			
Net cash flow																			
FIRR = 23 %																			

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Table O.2-6 Financial Model for the Proposed Village CARRASO Unit

Description	Year																				Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Revenue																					
- Sales	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
- Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Costs																					
- Labor	11	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
- Materials	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
- Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capital Expenditures																					
- Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depreciation																					
- Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Cash Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance Sheet																					
- Cash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Accounts Receivable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Inventory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Prepaid Expenses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Other Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Accounts Payable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Long-Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Other Liabilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Equity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Summary																					
- Total Revenue	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
- Total Costs	11	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
- Net Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Capital Expenditures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Net Cash Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Balance Sheet																					
- Cash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Accounts Receivable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Inventory	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Prepaid Expenses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Other Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Accounts Payable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Long-Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Other Liabilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Equity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table Q.2-54 Financial Model for the Proposed Village Carabao Unit, Cotacaville

[illegible]

Table Q.2-56 Financial Model for the Proposed Village Carabao Unit : Marangog

PRODUCTION PARAMETERS		YEAR																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Block Addition																											
Existing jobs	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Discarded core	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Mining	6	6	10	6	10	6	10	6	10	6	10	6	10	6	10	6	10	6	10	6	10	6	10	6	10	6	10
Preplant core	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Block Addition (and year)																											
Core	11	19	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Core	6	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15							

Table O.2-57 Financial Model for a Native Poultry Production Unit at Sappaac

	YEAR				
	1	2	3	4	5
A. PRODUCTION PARAMETERS					
<u>Stock Numbers</u>					
Hatching chick	100	100	100	100	100
Male	40	40	40	40	40
Female	40	40	40	40	40
Growing chick	64	85	95	95	95
Male for meat	32	32	32	32	32
Female as layers	32	53	63	63	63
<u>Sales</u>					
Growing chicks for meat(birds)	32	32	32	32	32
Egg (unit)	2,560	4,704	5,704	5,704	5,704
Cull Hens for meat(birds)	11	22	32	32	32
<u>Technical Parameters</u>					
Incubator capacity	100				
Hatching rate	1				
Survival rate	1				
Meat production (kg/bird)	1				
Eggs produced/hen/1st yr	80				
Eggs produced/hen/yr-2nd yr on	100				
Culled hen (%)	0				
<u>Input/output prices/costs (peso/unit)</u>	<u>Unit</u>	<u>Price P/unit</u>	<u>Period</u>	<u>Cost (peso per) Batch</u>	<u>Unit</u>
Incubator (5,000/unit divided among 50 farmers):	1	100	100		
Kerosene (6 ltr/batch)	6	7		42	
Labor : Meatbird 0.5 hr/day x 100 days (hr)	50	8		400	
: Layer: 0.5 hr/day x 365 days (hr)	183	8		1,460	
Material : Fencing, water, nest etc (Peso)	1	1,000		1,000	
Feed: : Meatbird 50 g/day x 100 days (kg)	5	4			20
: Layers: 50 g/day x 365 days (kg)	18	5			91
Vaccine and veterinarian services (peso/bird)					5
Output: : Meat (peso/bird of 1-kg each)					50
: Egg (peso/egg)					3
: Culled hen (peso/bird of 1.5 kg each)					70
B. CASH FLOW PROJECTIONS					
<u>Inflow</u>					
Sale of meat	1,600	1,600	1,600	1,600	1,600
Sell of eggs	6,400	11,760	14,260	14,260	14,260
Sale of cull hens	739	1,540	2,240	2,240	2,240
Farmer's contribution (50% labor)	930	1,419	1,647	1,647	1,647
Production loan	5,282				
Total inflow	14,951	16,319	19,747	19,747	19,747
<u>Outflow</u>					
Incubator/kerosene	142	42	42	42	42
Cost of fertilized eggs	250	250	250	250	250
Feed -meat birds	640	640	640	640	640
-layers	2,920	4,876	5,789	5,789	5,789
Labor-meat birds	400	400	400	400	400
-layers	1,460	2,438	2,894	2,894	2,894
Vaccine & Vet Services	400	400	400	400	400
Total outflow	6,212	9,047	10,415	10,415	10,415
Cash flow before financing	8,739	7,273	9,332	9,332	9,332
<u>Debt service</u>					
Interest at 20 %	1,056	845	634	423	211
Principal	1,056	1,056	1,056	1,056	1,056
Cash flow after financing	6,626	5,371	7,642	7,853	8,064
Loan outstanding	5,282	4,226	3,169	2,113	1,056
<u>Financial Analysis</u>					
Revenue from sales	8,739	14,900	18,100	18,100	18,100
Cash outflow	6,212	9,047	10,415	10,415	10,415
Net cash flow	2,527	5,853	7,685	7,685	7,685
FIRR =	> 50 %				

Table O.2-58 Financial Analysis of a Native Poultry Production Unit at Cofcaville

	YEAR				
	1	2	3	4	5
A. PRODUCTION PARAMETERS					
<u>Stock Numbers</u>					
Hatching chick	100	100	100	100	100
Male	40	40	40	40	40
Female	40	40	40	40	40
Growing chick	64	85	95	95	95
Male for meat	32	32	32	32	32
Female as layers	32	53	63	63	63
<u>Sales</u>					
Growing chicks for meat(birds)	32	32	32	32	32
Egg (unit)	2,560	4,704	5,704	5,704	5,704
Cull Hens for meat(birds)	11	22	32	32	32
<u>Technical Parameters</u>					
Incubator capacity	100				
Hatching rate	1				
Survival rate	1				
Meat production (kg/bird)	1				
Eggs produced/hen/1st yr	80				
Eggs produced/hen/yr-2nd yr on	100				
Culled hen (%)	0				
<u>Input/output prices/costs (peso/unit)</u>					
Incubator (5,000/unit divided among 50 farmers):	Unit	P/unit	Period	Batch	Unit
Kerosene (6 ltr/batch)	1	100	100		
Labor: Meatbird 0.5 hr/day x 100 days (hr)	6	7		42	
Layer: 0.5 hr/day x 365 days (hr)	50	8		400	
Material: Fencing, water, nest etc (Peso)	183	8		1,460	
Feed: Meatbird 50 g/day x 100 days (kg)	1	1,000		1,000	
Layers: 50 g/day x 365 days (kg)	5	4			20
Vaccine and veterinarian services (peso/bird)	18	5			91
Output: Meat (peso/bird of 1-kg each)					5
Egg (peso/egg)					50
Culled hen (peso/bird of 1.5 kg each)					2.50
					70
B. CASH FLOW PROJECTIONS					
<u>Inflow</u>					
Sale of meat	1,600	1,600	1,600	1,600	1,600
Sell of eggs	6,400	11,760	14,260	14,260	14,260
Sale of cull hens	739	1,540	2,240	2,240	2,240
Farmer's contribution(50% labor)	930	1,419	1,647	1,647	1,647
Production loan	5,282				
Total inflow	14,951	16,319	19,747	19,747	19,747
<u>Outflow</u>					
Incubator/kerosene	142	42	42	42	42
Cost of fertilized eggs	250	250	250	250	250
Feed -meat birds	640	640	640	640	640
-layers	2,920	4,876	5,789	5,789	5,789
Labor-meat birds	400	400	400	400	400
-layers	1,460	2,438	2,894	2,894	2,894
Vaccine & Vet Services	400	400	400	400	400
Total outflow	6,212	9,047	10,415	10,415	10,415
Cash flow before financing	8,739	7,273	9,332	9,332	9,332
<u>Debt service</u>					
Interest at 20 %	1,056	845	634	423	211
Principal	1,056	1,056	1,056	1,056	1,056
Cash flow after financing	6,627	5,372	7,642	7,853	8,065
Loan outstanding	5,282	4,226	3,170	2,114	1,058
<u>FINANCIAL ANALYSIS</u>					
Revenue from sales	8,739	14,900	18,100	18,100	18,100
Cash outflow	6,212	9,047	10,415	10,415	10,415
Net cash flow	2,527	5,853	7,685	7,685	7,685
FIRR =	> 50 %				

Table O.2-59 Financial Analysis of a Native Poultry Production Unit: Marangog

	YEAR				
	1	2	3	4	5
A. PRODUCTION PARAMETERS					
<u>Stock Numbers</u>					
Hatching chick	100	100	100	100	100
Male	40	40	40	40	40
Female	40	40	40	40	40
Growing chick	64	85	95	95	95
Male for meat	32	32	32	32	32
Female as layers	32	53	63	63	63
<u>Sales</u>					
Growing chicks for meat(birds)	32	32	32	32	32
Egg (unit)	2,560	4,704	5,704	5,704	5,704
Cull Hens for meat(birds)	11	22	32	32	32
<u>Technical Parameters</u>					
Incubator capacity	100				
Hatching rate	1				
Survival rate	1				
Meat production (kg/bird)	1				
Eggs produced/hen/1st yr	80				
Eggs produced/hen/yr-2nd yr on	100				
Culled hen (%)	0				
<u>Input/output prices/costs (peso/unit)</u>	<u>Unit</u>	<u>P/unit</u>	<u>Period</u>	<u>Batch</u>	<u>Unit</u>
Incubator:(5,000/unit divided among 50 farmers):	1	100	100		
Kerosene (6 ltr/batch)	6	7		42	
Labor :Meatbird:0.5 hr/day x 100 days (hr)	50	8		400	
:Layer: 0.5 hr/day x 365 days (hr)	183	8		1,460	
Material :Fencing,water,nest etc (Peso)	1	1,000		1,000	
Feed: :Meatbird:50 g/day x 100 days (kg)	5	4			20
:Layers: 50 g/day x 365 days (kg)	18	5			91
Vaccine and veterinarian services (peso/bird)					5
Output: :Meat (peso/bird of 1-kg each)					50
:Egg (peso/egg)					3
:Culled hen (peso/bird of 1.5 kg each)					70
B. CASH FLOW PROJECTIONS					
<u>Inflow</u>					
Sale of meat	1,600	1,600	1,600	1,600	1,600
Sell of eggs	6,400	11,760	14,260	14,260	14,260
Sale of cull hens	739	1,540	2,240	2,240	2,240
Farmer's contribution(50%labor)	930	1,419	1,647	1,647	1,647
Production loan	5,282				
Total inflow	14,951	16,319	19,747	19,747	19,747
<u>Outflow</u>					
Incubator/kerosene	142	42	42	42	42
Cost of fertilized eggs	250	250	250	250	250
Feed -meat birds	640	640	640	640	640
-layers	2,920	4,876	5,789	5,789	5,789
Labor-meat birds	400	400	400	400	400
-layers	1,460	2,438	2,894	2,894	2,894
Vaccine & Vet Services	400	400	400	400	400
Total outflow	6,212	9,047	10,415	10,415	10,415
Cash flow before financing	8,739	7,273	9,332	9,332	9,332
<u>Debt service</u>					
Interest at rate (20%)	1,066	845	634	423	211
Principal	1,066	1,066	1,066	1,066	1,066
Cash flow after financing	6,627	5,372	7,642	7,853	8,065
Loan outstanding	5,282	4,226	3,170	2,114	1,066
<u>Financial Analysis</u>					
Revenue from sales	8,739	14,900	18,100	18,100	18,100
Cash outflow	6,212	9,047	10,415	10,415	10,415
Net cash flow	2,527	5,853	7,685	7,685	7,685
FIRR =	> 50 %				

Table O.2-60 Financial Analysis of a Native Poultry Production Unit: Silae

	YEAR				
	1	2	3	4	5
A. PRODUCTION PARAMETERS					
Stock Numbers					
Hatching chick	100	100	100	100	100
Male	40	40	40	40	40
Female	40	40	40	40	40
Growing chick	64	85	95	95	95
Male for meat	32	32	32	32	32
Female as layers	32	53	63	63	63
Sales					
Growing chicks for meat(birds)	32	32	32	32	32
Egg (unit)	2,560	4,704	5,704	5,704	5,704
Cull Hens for meat(birds)	11	22	32	32	32
Technical Parameters					
Incubator capacity	100				
Hatching rate	1				
Survival rate	1				
Meat production (kg/bird)	1				
Eggs produced/hen/1st yr	80				
Eggs produced/hen/yr-2nd yr on	100				
Culled hen (%)	0				
Input/output prices/costs (peso/unit)					
	Unit	P/unit	Period	Batch	Unit
Incubator (5,000/unit divided among 50 farmers):	1	100	100		
Kerosene (6 lb/batch)	6	7		42	
Labor: Meatbird 0.5 hr/day x 100 days (hr)	50	8		400	
Layer: 0.5 hr/day x 365 days (hr)	183	8		1,460	
Material: Fencing, water, nest etc (Peso)	1	1,000		1,000	
Feed: Meatbird 50 g/day x 100 days (kg)	5	4			20
Layers: 50 g/day x 365 days (kg)	18	5			91
Vaccine and veterinarian services (peso/bird)					5
Output: Meat (peso/bird of 1-kg each)					50
Egg (peso/egg)					3
Culled hen (peso/bird of 1.5 kg each)					70
B. CASH FLOW PROJECTIONS					
Inflow					
Sale of meat	1,600	1,600	1,600	1,600	1,600
Sell of eggs	6,400	11,760	14,260	14,260	14,260
Sale of cull hens	739	1,540	2,240	2,240	2,240
Farmer's contribution(50% labor)	930	1,419	1,647	1,647	1,647
Production loan	5,282				
Total inflow	14,951	16,319	19,747	19,747	19,747
Outflow					
Incubator/kerosene	142	42	42	42	42
Cost of fertilized eggs	250	250	250	250	250
Feed -meat birds	640	640	640	640	640
-layers	2,920	4,876	5,789	5,789	5,789
Labor-meat birds	400	400	400	400	400
-layers	1,460	2,438	2,894	2,894	2,894
Vaccine & Vet Services	400	400	400	400	400
Total outflow	6,212	9,047	10,415	10,415	10,415
Cash flow before financing	8,739	7,273	9,332	9,332	9,332
Debt service					
Interest (20%)	1,056	845	634	423	211
Principal	1,056	1,056	1,056	1,056	1,056
Cash flow after financing	6,627	5,371	7,641	7,852	8,064
Loan outstanding	5,282	4,226	3,169	2,113	1,056
Financial Analysis					
Revenue from sales	8,739	14,900	18,100	18,100	18,100
Cash outflow	6,212	9,047	10,415	10,415	10,415
Net cash flow	2,527	5,853	7,685	7,685	7,685
FIRR =	> 50 %				

Table O.2-61 Benefits from Rural Roads at Sappaac

A. Marketing Cost Saved	
1. Weight of Produce marketed (kg/hh)	103
2. No of Farm Households (189+370 from neighboring municipalities)	559
3. Total weight marketed (Kg)	57,577
4. Cost of transportation by carabao-drawn carts (peso/kg)	1
5. Cost of transportation moter vehicles from mainroad (P/kg)	0.5
6. Cost Saved (peso)	86,366
B. Mandays Saved in Travelling from Homelot to Farm	
1. No. of man-hours saved/day/farm	1
2. No. of working days	200
3. Total mandays saved/farm	25
4. No. of farms	559
5. Labor costs/day (peso/man-day)	70
6. Value of labor saved (peso)	978,250
C. Mandays Saved in Travels on Other Purposes	
1. No. of hours saved/trip	1
2 No. of trips/week	4
3. No. of households including non-farms(559+106 non-farm)	665
4. Mandays saved	2660
5. Value of mandays saved	186,200
Total Road Benefits ('000 peso)	1,251

Note: Include 189 farm households from Sappaac and 370 households from neighboring municipalities and 106 non-farm households from both Sappaac and all neighboring municipalities.

Table O.2-62 Benefits from Rural Roads at Cofcaville

A. Marketing Cost Saved	
1. Weight of Produce marketed (kg/hh)	5282
2. No of Farm Households	179
3. Total weight marketed (Kg)	945,478
4. Cost of transportation by carabao-drawn carts (peso/kg)	1
5. Cost of transportation moter vehicles from mainroad (P/kg)	0
6. Cost Saved (peso)	1,106,209
B. Mandays Saved in Travelling from Homelot to Farm	
1. No. of man-hours saved/day/farm	1
2. No. of working days	200
3. Total mandays saved/farm	25
4. No. of farms	179
5. Labor costs/day (peso/man-day)	60
6. Value of labor saved (peso)	268,500
C. Mandays Saved in Travels on Other Purposes	
1. No. of hours saved/trip	1
2. No. of trips/week	4
3. No. of households including non-farms(179+34 non-farm))	213
4. Mandays saved	852
5. Value of mandays saved	51,120
Total Road Benefits ('000 peso)	1,426

Table O.2-63 Benefits from Rural Roads at MARANGOG

A. Marketing Cost Saved	
1. Weight of Produce marketed (kg/hh)	737
2. No of Farm Households 1/	770
3. Total weight marketed (Kg)	567,490
4. Cost of transportation by carabao-drawn carts (peso/kg)	1
5. Cost of transportation moter vehicles from mainroad (P/kg)	1
6. Cost Saved (peso)	993,108
B. Mandays Saved in Travelling from Homelot to Farm	
1. No. of man-hours saved/day/farm	1
2. No. of working days/year	200
3. Total mandays saved/farm/year	25
4. No. of farms	770
5. Labor costs/day (peso/man-day)	70
6. Value of labor saved (peso)	1,347,500
C. Mandays Saved in Travels on Other Purposes	
1. No. of hours saved/trip	2
2 No. of trips/week	1
3. No. of households including non-farms1/	860
4. Mandays saved	1,720
5. Value of mandays saved	120,400
Total Road Benefits ('000 peso)	2,461

Note: Include 247 households beneficiaries from Marangog and 523 households from other neighboring municipalities.

Table O.2-64 Benefits from Rural Roads at SILAE

A. Marketing Cost Saved	
1. Weight of Produce marketed (kg/hh)	4,729
2. No of Farm Households (115+225)	340
3. Total weight marketed (Kg)	1,607,860
4. Cost of transportation by carabao-drawn carts (peso/kg)	1
5. Cost of transportation moter vehicles from mainroad (P/kg)	1
6. Cost Saved (peso)	2,411,790
B. Mandays Saved in Travelling from Homelot to Farm	
1. No. of man-hours saved/day/farm	1
2. No. of working days	299
3. Total mandays saved/farm	25
4. No. of farms (115+225)	340
5. Labor costs/day (peso/man-day)	70
6. Value of labor saved (peso)	595,000
C. Mandays Saved in Travels on Other Purposes	
1. No. of hours saved/trip	1
2. No. of trips/week	4
3. No. of households including non-farms ¹ (340+65)	405
4. Mandays saved	1,620
5. Value of mandays saved	113,400
Total Road Benefits ('000 peso)	3,120

Table O.2-65 Benefits from Rural Water Supply at Sappaac

1. Average Distance from water sources (m)	97
2. Travel time to fetch water (hr/round trip)	0
3. No. of round trips /yr	365
4. No of persons fetching water /hh	2
5. No of households (farm & non-farm)	224
6. Mandays saved	4,088
7. Values of labor (Peso/md)	70
8. Costs of labour saved (Peso)	408,870

Table O.2-66 Benefits from Rural Water Supply at Cofcaville

1. Average Distance from water sources (m)	33
2. Travel time to fetch water (hr/round trip)	0.1
3. No. of round trips /yr	365
4. No of persons fetching water /hh	2
5. No of households (farm & non-farm)	213
6. Mandays saved	1,944
7. Values of labor (Peso/md)	60
8. Costs of labour saved (Peso)	116,640

Table O.2-67 Benefits from Rural Water Supply at Marangog

1. Average Distance from water sources (m)	128
2. Travel time to fetch water (hr/round trip)	0.3
3. No. of round trips /yr	365
4. No of persons fetching water /hh	2
5. No of households (farm & non-farm)	276
6. Mandays saved	7,556
7. Values of labor (Peso/md)	60
8. Costs of labour saved (Peso)	453,360

Table O.2-68 Benefits from Rural Water Supply at SILAE

1. Average Distance from water sources (m)	830
2. Travel time to fetch water (hr/round trip)	2
3. No. of round trips /yr	365
4. No of persons fetching water /hh	2
5. No of households (farm & non-farm)	137
6. Mandays saved	42,158
7. Values of labor (Peso/md)	70
8. Costs of labour saved ('000Peso)	2,951

Table O.2-69 Benefits from Fish Culture at Sappaac

1. Stocking area (sq.m)	600
= (ha)	0.06
2. Stocking rate of Tilapia (No./ha)	15,000
3. Mortality rate (%)	20
4. Yield (ton/ha:based on 12,000 fish/ha)	1.45
5. Production (ton)	0.087
6. Price (peso/kg)	60
7. Gross income (peso)	5,220
8. Production Costs (peso)	
Quantity	
- No. of fingerings	900
- Labor (man days)	5
Unit Cost of	
- Fingerings	2.5
- Labor	70
Total Costs	3,098
- Fingerings	2,250
- Labor	350
- Misc	498
9. Net Production Value from Tilapia	2,122

Table O.2-70 Benefits from Fish Culture at Cofcaville

1. Stocking area	(sq.m)	1,000
=	(ha)	0.10
2. Stocking rate of Tilapia (No./ha)		15,000
3. Mortality rate (%)		20
4. Yield (ton/ha:based on 12,000 fish/ha)		1.45
5. Production (ton)		0.145
6. Price (peso/kg)		60
7. Gross income (peso)		8,700
8. Production Costs (peso)		
Quantity		
- No. of fingerings		1,500
- Labor (man days)		8
Unit Cost of		
- Fingerings		2.5
- Labor		60
Total Costs		5,076
- Fingerings		3,750
- Labor		480
- Misc		846
9. Net Production Value from Tilapia		3,624

Table O.2-71 Benefits from Fish Culture at SILAE

1. Stocking area (sq.m)	1,000
= (ha)	0
2. Stocking rate of Tilapia (No./ha)	15,000
3. Mortality rate (%)	20
4. Yield (ton/ha:based on 12,000 fish/ha)	1.45
5. Production (ton)	0
6. Price (peso/kg)	60
7. Gross income (peso)	8,700
8. Production Costs (peso)	
Quantity	
- No. of fingerings	1,500
- Labor (man days)	8
Unit Cost of	
- Fingerings	3
- Labor	70
Total Costs	5,156
- Fingerings	3,750
- Labor	560
- Misc	846
9. Net Production Value from Tilapia(peso)	3,544

**Table O.2-72 Financial Model for Post-Harvest
Agro-Industry Facilities: Sappaac**

	Life (yr)	Cost/Unit (000peso)	No of Equipment
A. INVESTMENT (peso)			
I. Agr.Machinery (life-yr)			
- Tractor	10	1,177.0	0
- Disc Harrow	7	155.0	0
- Disc Plow	7	85.5	0
- Trailer	7	15.8	0
- Hand Tractor	7	34.3	0
- Sprayer	5	2.9	6
- Animal-drawn Plow	5	1.2	6
- Comb-Tooth Harrow	5	1.0	6
- Animal-drawn sledge	5	0.5	6
II. Post-Harvest & Agro-Industry Facilities			
- Multipurpose Dryer	30	395.5	2
- Mechanical Dryer	7	106.0	1
- Reaper	5	90.0	2
- Rice Thresher-foot type	5	1.9	7
- Rice Thresher-mech	5	35.0	1
- Engine	7	13.5	1
- Winnowing	7	2.0	7
- Warehouse with Solar Dryer (30)	30	659.0	1
- Rice Agro-Industry Center			
- Warehouse	30	659.0	1
- Rice Mill			
- Mill	10	77.0	0
- Engine	7	68.0	0
- Weighing Scale	7	12.5	1
- Moisture Meter	5	25.0	1
- Crack Inspector	10	1.0	1
- Wooden Pallets	5	21.0	1
- Corn Sheller-handy type	7	12.5	6
- Corn Agro-Industry Center			
- Warehouse	30	659.0	0
- Corn Mill			
- Mill	7	75.0	0
- Engine	7	85.0	0
- Corn Sheller			
- Sheller	5	15.0	0
- Engine	7	29.0	0
- Weighing Scale	7	12.5	0
- Moisture Meter	5	37.5	0
- Wooden Pallets	5	21.0	0

**Table O.2-73 Financial Model for Post-Harvest
Agro-Industry Facilities: Cofcaville**

	Life (yr)	Cost/Unit (000peso)	No of Equipment
A. INVESTMENT (peso)			
I. Agr. Machinery (life-yr)			
- Tractor	10	1,177.0	1
- Disc Harrow	7	155.0	1
- Disc Plow	7	85.5	1
- Trailer	7	15.8	1
- Hand Tractor	7	34.3	2
- Sprayer	5	2.9	12
- Animal-drawn Plow	5	1.2	3
- Comb-Tooth Harrow	5	1.0	3
- Animal-drawn sledge	5	0.5	3
II. Post-Harvest & Agro-Industry Facilities			
- Multipurpose Dryer	30	395.5	2
- Mechanical Dryer	7	106.0	1
- Reaper	5	90.0	2
- Rice Thresher-foot type	5	1.9	3
- Rice Thresher-mech	5	35.0	1
- Engine	7	13.5	1
- Winnowing	7	2.0	3
- Warehouse with Solar Dryer (30)	30	659.0	2
- Rice Agro-Industry Center			
- Warehouse	30	659.0	1
- Rice Mill			
- Mill	10	77.0	1
- Engine	7	68.0	1
- Weighing Scale	7	12.5	1
- Moisture Meter	5	25.0	1
- Crack Inspector	10	1.0	1
- Wooden Pallets	5	21.0	1
- Corn Sheller-handy type	7	12.5	6
- Corn Agro-Industry Center			
- Warehouse	30	659.0	0
- Corn Mill			
- Mill	7	75.0	1
- Engine	7	85.0	1
- Corn Sheller			
- Sheller	5	15.0	1
- Engine	7	29.0	1
- Weighing Scale	7	12.5	1
- Moisture Meter	5	37.5	1
- Wooden Pallets	5	21.0	1

**Table O.2-74 Financial Model for Post-Harvest
Agro-Industry Facilities: Marangog**

	Life (yr)	Cost/Unit (000peso)	No of Equipment
A. INVESTMENT (peso)			
I. Agr.Machinery (life-yr)			
- Tractor	10	1,177.0	0
- Disc Harrow	7	155.0	0
- Disc Plow	7	85.5	0
- Trailer	7	15.8	0
- Hand Tractor	7	34.3	1
- Sprayer	5	2.9	5
- Animal-drawn Plow	5	1.2	3
- Comb-Tooth Harrow	5	1.0	3
- Animal-drawn sledge	5	0.5	3
II. Post-Harvest & Agro-Industry Facilities			
- Multipurpose Dryer	30	395.5	2
- Mechanical Dryer	7	106.0	1
- Reaper	5	90.0	0
- Rice Thresher-fool type	5	1.9	0
- Rice Thresher-mech	5	35.0	1
- Engine	7	13.5	1
- Winnowing	7	2.0	0
- Warehouse with Solar Dryer (30)	30	659.0	1
- Rice Agro-Industry Center			
- Warehouse	30	659.0	0
- Rice Mill			
- Mill	10	77.0	0
- Engine	7	68.0	0
- Weighing Scale	7	12.5	0
- Moisture Meter	5	25.0	0
- Crack Inspector	10	1.0	0
- Wooden Pallets	5	21.0	0
- Corn Sheller-handy type	7	12.5	2
- Corn Agro-Industry Center			
- Warehouse	30	659.0	0
- Corn Mill			
- Mill	7	75.0	0
- Engine	7	85.0	0
- Corn Sheller			
- Sheller	5	15.0	0
- Engine	7	29.0	0
- Weighing Scale	7	12.5	0
- Moisture Meter	5	37.5	0
- Wooden Pallets	5	21.0	0

**Table O.2-75 Financial Model for Post-Harvest
Agro-Industry Facilities: Sifae**

	Life (yr)	Cost/Unit (000peso)	No of Equipment
A: INVESTMENT (peso)			
I. Agr.Machinery (life-yr)			
- Tractor	10	1,177.0	0
- Disc Harrow	7	155.0	0
- Disc Plow	7	85.5	0
- Trailer	7	15.8	0
- Hand Tractor	7	34.3	1
- Sprayer	5	2.9	3
- Animal-drawn Plow	5	1.2	3
- Comb-Tooth Harrow	5	1.0	3
- Animal-drawn sledge	5	0.5	3
II. Post-Harvest & Agro-Industry Facilities			
- Multipurpose Dryer	30	395.5	1
- Mechanical Dryer	7	106.0	1
- Reaper	5	90.0	1
- Rice Thresher-foot type	5	1.9	0
- Rice Thresher-mech	5	35.0	1
- Engine	7	13.5	1
- Winnowing	7	2.0	0
- Warehouse with Solar Dryer (30)	30	659.0	1
- Rice Agro-Industry Center			
- Warehouse	30	659.0	0
- Rice Mill			
- Mill	10	77.0	0
- Engine	7	68.0	0
- Weighing Scale	7	12.5	0
- Moisture Meter	5	25.0	0
- Crack Inspector	10	1.0	0
- Wooden Pallets	5	21.0	0
- Corn Sheller-handy type	7	12.5	0
- Corn Agro-Industry Center			
- Warehouse	30	659.0	0
- Corn Mill			
- Mill	7	75.0	1
- Engine	7	85.0	1
- Corn Sheller			
- Sheller	5	15.0	1
- Engine	7	29.0	1
- Weighing Scale	7	12.5	1
- Moisture Meter	5	37.5	1
- Wooden Pallets	5	21.0	1

Table O.2-76 Average Production Costs of Selected Crops Without Project: SAPPAAC

Cost Items	Palay		Corn White	Sweet Potato	Mango (existing)	Banana (existing)
	Irrigated	Rainfed				
CASH COSTS						
Seeds	232	89	119	958		
Fertilizers	938	575	559		319	1,957
Chemicals	360	174	109		3,315	
Hired Labor	2,450	1,797	227	385	1,382	3,522
Irrigation Fee	121	0				
Land Tax	81	107	41	21		
Rentals - Toos/Equipment						
- Machine						
- Animal	9	5				
- Land		70				
Fuel/oil	145	20				
Interest on crop loan	66					
Food Expense	330	148	76			
Transport expense	108	71	26	198		
NON-CASH COSTS						
Seeds	577	391	60	303		
Landlord share	1,136	613	76			
Harvester's Share	777	444	103			
Tresher's Share	681	272	17			
Hired Labor paid in kind	819	84				
Lease Rental	614	194		258		
Irrigation fee	163					
Miscellaneous						805
IMPUTED COSTS						
Family labor	2,329	4,000	997	1,971	2,940	2,348
Exchange labor	588	244	265	0		
Depreciation	1,288	484	158	27		
Interest to Investment	628	408	165	101		
ALL COSTS	14,441	10,187	2,998	4,221	7,956	8,632

Table O2-77 Average Production Costs of Crops Without Project: COFCAVILLE

Cost Items	Palay Rainfed	Corn Yellow	Peanut	Mungbean	Sweet Potato	Mango	Banana
CASH COSTS							
Seeds	154	1,200	330	338	958		
Fertilizers	683	1,147	218	12		319	1,957
Chemicals	321	804	16	180		3,315	
Hired Labor	2,366	1,180	412	269	385	1,382	3,522
Irrigation Fee	0			12			
Land Tax	63	71		15	21		
Rentals -Toos/Equipment				14			
- Machine	34			18			
- Animal	14			9			
- Land	10	7		104			
Fuel/oil	121			3			
Interest on crop loan	384		243	1			
Food Expense	82	44					
Transport expense	35	4	100	4	198		
NON-CASH COSTS							
Seeds	595	121	742	5	303		
Landlord share	491	481		35			
Harvester's Share	426	243					
Tresher's Share	587	58		9			
Hired Labor paid in kind		102		268			
Lease Rental	156	14	867	108	258		
Irrigation fee				322			
							805
IMPUTED COSTS							
Family labor	1,563	3,084	1,522	896	1,971	2,940	2,348
Exchange labor	70	236	0	0	0		
Depreciation	519	645	92	32	27		
Interest to investment	582	353	154	128	101		
ALL COSTS	9,254	9,795	4,697	2,784	4,221	7,956	8,632

Table O.2-78 Average Production Costs of Crops Produced Without Project: Marangog

Cost Items	Palay Rainfed	Corn White	Peanut	Sweet Potato	Mango (existing)	Banana (existing)	Abaca (existing)	Coconut (existing)
CASH COSTS								
Seeds	329	11	330	958				308
Fertilizers	278	57	218		319	1,957		577
Chemicals	86	2	16		3,315			1,944
Hired Labor	1,256	597	412	385	1,382	3,522	840	
Irrigation Fee	0							
Land Tax	41	34		21				
Rentals - Tools/Equipment	3	8						
- Machine	41							
- Animal	192							
- Land	10							
Fuel/oil								
Interest on crop loan			243					
Food Expense	11	84	100	198				
Transport expense		7						
NON-CASH COSTS								
Seeds	302	95	742	303				
Landlord share	321	551						
Harvester's Share	405	325						
Tresher's Share	407	130						
Hired Labor paid in kind	564	210						
Lease Rental		38	867	258				
Irrigation fee						805		200
Miscellaneous								
IMPUTED COSTS								
Family labor	1,513	1,212	1,522	1,971	2,940	2,348	840	1,296
Exchange labor	8	0	0	0				
Depreciation	550	316	92	27				
Interest to Investment	455	106	154	101				
ALL COSTS	6,772	3,784	4,697	4,221	7,956	8,632	1,680	4,325

Table O.2-79 Average Production Costs of Selected Crops Without Project: SILAE

Cost Items	Palay		Corn Yellow	Squash
	Irrigated	Rainfed		
CASH COSTS				
Seeds	409	360	256	1,200
Fertilizers	1,198	680	1,344	2,892
Chemicals	601	454	76	200
Hired Labor	2,829	3,861	1,026	3,197
Irrigation Fee	112			
Land Tax	51	30	39	
Rentals - Toos/Equipment	7			
- Machine	148	163		
- Animal	26	62		
- Land			315	
Fuel/oil	114	125	62	
Interest on crop loan	139	153		
Food Expense	171	165	131	
Transport expense	34	38	10	
NON-CASH COSTS				
Seeds	357	281	13	
Landlord share	1,490	1,129	53	
Harvester's Share	1,175	1,017	793	
Tresher's Share	899	950		
Hired Labor paid in kind		289	712	
Lease Rental	831	132		
Irrigation fee	50			
Miscellaneous				
IMPUTED COSTS				
Family labor	2,833	920	848	2,131
Exchange labor	358	40	0	
Depreciation	773	591	323	
Interest to Investment	791	835	419	
ALL COSTS	15,395	12,277	6,419	9,620

Disbursement Schedule of the Project Costs for Project Evaluation and O&M Costs in Support Area (R&A - CAR)

(unit : '000 p)

Items	Unincurred Costs										Total
	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year		
Project Implementation Schedule											
1. Administration											
2. Land Acquisition											
3. Pre-Engineering Work											
4. Consulting Services											
5. Construction Works											
a) Agricultural Development											
b) Rural Infrastructure Development											
c) Rural Infrastructure Development											
d) Post-Harvest Development											
e) Institutional Development											
6. Community Development & Support Services											
7. Projects Costs											
1. Administration Costs	207	207	207	207	207	207	207	207	207	2,061	
2. Land Acquisition Cost	710	710	710	710	710	710	710	710	710	7,090	
3. Pre-Engineering Work Cost	900	900	900	900	900	900	900	900	900	8,990	
4. Consulting Services Cost	0	1,875	1,235	0	1,940	0	357	0	357	4,365	
5. Construction Cost											
a) Agricultural Development											
- Nursery	50	107	107	107	107	107	107	107	107	960	
- Training and Development Farm	50	145	145	145	145	145	145	145	145	1,360	
- Combeo Disposal	0	300	300	300	300	300	300	300	300	2,700	
- Combeo Mining Station (Hill Camp)	35	140	140	140	140	140	140	140	140	1,260	
- Poultry Development	0	0	0	0	0	0	0	0	0	0	
b) Rural Infrastructure Development											
- Agricultural Infrastructure Development											
- Irrigation Development	760	1,040	1,570	2,170						5,680	
- Drainage Development	20	40	40	150						250	
- Farm Road Development	1,005	910	2,005	1,845						5,765	
- Sub-Total	785	1,090	1,550	2,165						5,795	
c) Rural Infrastructure Development											
- Rural Roads Development	2,015	1,515	4,037	3,630						11,200	
- Rural Water Supply	432	285	861	575						2,153	
- Other Social Infrastructure Development											
- Strengthening Motor Pool for DM Works											
- Sub-Total	2,447	1,800	4,898	4,205						13,350	
d) Post-harvest development											
- Agricultural Machinery											
- Post-Harvest & Agro-Industry Facilities											
- Sub-Total											
e) Institutional Development											
- Community Development Program	470	200								670	
- Sub-Total	470	200								670	
Total	4,873	5,200	9,325	10,203						29,601	
8. Community Development											
a) Agricultural Support Services											
- Training & Demonstration Farm											
- Animal Machinery											
- Sub-Total											
b) Institutional Development											
- Community Development Program											
- Sub-Total											
Total											
9. Physical Contingency											
Total											
Grand Total	1,401	1,003	2,754	10,458	12,501	277	1,765	277	1,765	20,551	
Contingency											
Total											

Note: Figures with (-) show the excluded project costs for the project economic evaluation.

Table 0.2-8) Disbursement Schedule of the Project Costs for Project Economic Evaluation and O&M Costs in Gafscavillo Area (Rov. - [1])

Tasks	Disbursement Costs												O&M Costs
	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	11th Year	12th Year	
A. Project Implementation Schedule													
1. Administration													
2. Land Acquisition													
3. Pre-Engineering Work													
4. Consulting Services													
5. Construction Works													
a) Agricultural Development													
b) Rural Infrastructure Development													
c) Rural Infrastructure Development													
d) Institutional Development													
e) Institutional Development													
6. Community Development & Support Services													
a. Project Costs													
1. Administration Costs													
2. Land Acquisition Cost													
3. Pre-Engineering Work Cost													
4. Consulting Service Cost													
5. Construction Cost													
a) Agricultural Development													
- Nursery													
- Training and Development Firm													
- Garden Division													
- Garden Mini-Production Station (Bull Camp)													
- Bakery Development													
b) Agricultural Development													
- Irrigation Development													
- Drainage Development													
- Farm Road Development													
c) Rural Infrastructure Development													
- Rural Roads Development													
- Rural Water Supply													
- Other Social Infrastructure Development													
- Strengthening Market Pool for O&M Works													
d) Post-project development													
- Agricultural Machinery													
- Post-harvest & Agro-Industry Facilities													
e) Institutional Development													
- Community Development Program													
6. Community Development													
a) Agricultural Support Services													
- Training & Demonstration Firm													
- Animal Husbandry													
b) Institutional Development													
- Community Development Program													
7. Physical Contingency													
Grand Total													

Note: Figures with (+) show the excluded project costs for the project economic evaluation.

Table 0.2-82 Disbursement Schedule of the Project Costs for Project Economic Evaluation and O&M Costs in Marikouk Area (Row - VIII)

(Unit : '000)

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Items		1st Year		2nd Year		3rd Year		4th Year		5th Year		6th Year		7th Year		8th Year		9th Year		10th Year		11th Year		12th Year		13th Year		14th Year		15th Year		16th Year		17th Year		18th Year		19th Year		20th Year		21st Year		22nd Year		23rd Year		24th Year		25th Year		26th Year		27th Year		28th Year		29th Year		30th Year		31st Year		32nd Year		33rd Year		34th Year		35th Year		36th Year		37th Year		38th Year		39th Year		40th Year		41st Year		42nd Year		43rd Year		44th Year		45th Year		46th Year		47th Year		48th Year		49th Year		50th Year		51st Year		52nd Year		53rd Year		54th Year		55th Year		56th Year		57th Year		58th Year		59th Year		60th Year		61st Year		62nd Year		63rd Year		64th Year		65th Year		66th Year		67th Year		68th Year		69th Year		70th Year		71st Year		72nd Year		73rd Year		74th Year		75th Year		76th Year		77th Year		78th Year		79th Year		80th Year		81st Year		82nd Year		83rd Year		84th Year		85th Year		86th Year		87th Year		88th Year		89th Year		90th Year		91st 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Table 0.2-83 Disbursement Schedule of the Project Costs for Project Economic Evaluation and O&M Costs in Sileao Area (Roe - X)

Items	Disbursement Costs										Unit Costs
	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	
A. Project Implementation Schedule											
1. Administration											
2. Land Acquisition											
3. Pre-Engineering Work											
4. Consulting Services											
5. Construction Works											
6. Agriculture Development											
7. Rural Infrastructure Development											
8. Post-Harvest Development											
9. Institutional Development											
10. Community Development & Support Services											
B. Project Costs											
1. Administration Costs	0	217	99	217	99	217	99	217	99	217	1,807
2. Land Acquisition Cost	284	458									762
3. Pre-Engineering Work Cost	304	0	1,875	1,230	0	1,940	0	357	0	353	7,104
4. Consulting Service Cost											
5. Construction Cost											
6. Agriculture Development											
- Veterinary		54	107								161
- Training and Development Farm		50	145								195
- Commodity Allocation		0	300								300
- Commodity Min-Threshold Station (Bull Cows)		35	180								215
- Poultry Development		0	80								80
Sub-Total											
7. Rural Infrastructure Development											
- Irrigation Infrastructure Development		249	805	877	1,011						3,433
- Irrigation Development		80	240	120	475						840
- Drainage Development		754	808	1,507	1,375						5,075
- Farm Road Development											
Sub-Total											
8. Rural Infrastructure Development											
- Rural Road Development		150	40	200	80						600
- Rural Water Supply		240	180	480	220						1,200
- Other Rural Infrastructure Development											
- Strengthening Water Pools for DPA Works											
Sub-Total											
9. Post-Harvest Development											
- Agricultural Machinery			20	30							50
- Processing & Storage Facility			670	1,553							2,223
Sub-Total											
10. Institutional Development											
- Community Development Program		470	200								670
Sub-Total											
Total		2,162	3,186	3,765	5,069						15,112
C. Community Development											
1. Agriculture Support Services											
- Training & Demonstration Farm				500	0	500	0	500	0	500	2,000
- Animal Husbandry				12	0	12	0	12	0	12	48
Sub-Total											
2. Institutional Development											
- Community Development Program				440	0	440	0	440	0	440	1,760
Sub-Total											
3. Physical Contingency											
- Physical Contingency		210	200	300	322	0	95	0	95	0	1,895
Sub-Total											
Grand-Total	1,821	670	4,321	5,025	4,274	9,769	1,431	100	1,431	99	30,686

Note: Figures with (-) show the excluded project costs for the project economic evaluation.