## Appendix 5.1 Financial Analysis

Table A5.1.1 Financial Analysis of Processing and Marketing Facilities 1) Financial analysis of slaughter slab

Conditions

a. Number of animals handled handling charges :

Cattle	1,800 head/year
Goats/sheep	120 head/year
al recurrent cost: 2,436,000	) USHS/year.

2,000 USHS/head 500 USHS/head

b. Total c. Operation to start by third year at 50%.d. Operation rate to reach 100% in 4th year.

e. Exchange rate : 1,185 USHS/US\$.

							US\$
year	Investment		Income		Cost		
	Construction	Engincering	Cattle	Goats/sheep	Recurrent	Income cost	Balance
			-3,038	51	2,056		
1	7,963	1,194					-9,15
2	7,963	1,194					-9,15
3			1,519	25	2,056	-511	-51
4			3,038	51	2,056	1,033	1,033
- 5			3,038	51	2,056	1,033	1,033
6			3,038	51	2,056	1,033	1,033
7			3,038	51	2,056	1,033	1,03
8			3,038	51	2,056	1,033	
9			3,038	51	2,056	1,033	1,03
10			3,038	51	2,056	1,033	1,03
11			3,038	51	2,056	1,033	1,03
12			3,038	51	2,056	1,033	1,03
13			3,038	51	2,056	1,033	1,03
14			3,038	51	2,056	1,033	1,03
15	:		3,038	51	2,056	1,033	1,03
16			3,038	51	2,056	1,033	1,03
17			3,038	51	2,056	1,033	1,03
18			3,038	51	2,056	1,033	1,03
19			3,038	51	2,056	1,033	1,03
20			3,038	51	2,056	1,033	1,03
21			3,038	51	2,056	1,033	1,03
22			3,038	51	2,056	1,033	1,03
23			3,038	51	2,056	1,033	1,03
24			3,038	51	2,056	1,033	1,03
25			3,038	51	2,056	1,033	1,03
26			3,038	51	2,056		1,03
27			3,038		2,056	1,033	1,03
28			3,038		2,056		
29			3,038		2,056		
30			3,038	51	2,056		ſ
						·	FIRR
							2.79

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2) Financial analysis of slaughter house

Conditions

a. Nur	nber o	f a	nimals	handled	and	handling charges:	
			-				

		-
Cattle	26,000	head/year
Goats/sheep	14,040	head/year
75	400.000 LIGHE/man	

2,000 USHS/head 500 USHS/head

b. Total recurrent cost: 35,400,000 USHS/year.

- c. As for case No.1, operation to start in third year at 50% and to reach 100% in 4th year.
- d. As for case No.2, operation to start in third year at 40% and to reach 80% rate in 4th year.

e. Exchange rate: 1,185 USHS/US\$.

····4.	<u></u>				Cont	· · · · · · · · · · · · · · · · · · ·	Balance	US\$ Balance
	Investment		Income		Cost			
1	Construction		Cattle	Goats/sheep	Recurrent	Income cost	Case No.1	Case No.2
		service	43,882	5,924	29,873			
1	31,818						-36,591	-36,5
2	31,818	4,773					-36,591	-36,5
3			21,941	2,962				
4			43,882				19,932	ſ
5			43,882				19,932	
6		·	43,882		29,873		19,932	
7			43,882		29,873		19,932	9,9
- 8			43,882				19,932	9,9
- 9		Į	43,882	5,924	29,873			9,9
10			43,882	5,924	29,873		19,932	
11			43,882	5,924	29,873	19,932	19,932	
12			43,882	5,924	29,873	19,932	19,932	9,9
13			43,882	5,924	29,873	19,932	19,932	9,9
14			43,882	5,924	29,873	19,932	19,932	9,9
15			43,882	5,924	29,873	19,932	19,932	9,9
16			43,882	5,924	29,873	19,932	19,932	9,9
17			43,882	5,924	29,873	19,932	19,932	9,9
18			43,882	5,924	29,873	19,932	19,932	9,9
19			43,882		29,873	19,932	19,932	9,9
20			43,882				19,932	9,9
21			43,882				19,932	9,9
22			43,882				19,932	9,9
23			43,882				19,932	9,9
24			43,882					
25		}	43,882				19,932	
26			43,882			i	19,932	9,9
27			43,882			2		9,9
28			43,882				19,932	
29			43,882				19,932	
30			43,882			-	19,932	9,9
					22,075		FIRR	FIRR
							19.6%	9.7



# 3) Financial analysis of livestock market

Conditions

a. Ni	umber of animals handled an	d handling charges:	
	Cattle	4,800 heads/year	2,700 USHS/head
	Goats/sheep	300 heads/year	700 USHS/head

b. Total recurrent costs: 4,742,000 USHS/year.c. Operation to start in third year at 50% and to reach 100% in 4th year.

d. Exchange rate: 1,185 USHS/US\$.

							US\$
year	Investment		Income		Cost		
	Construction	Engineering	Cattle	Goats/sheep	Recurrent	Income cost	Balance
		service	10,937	177	4,002		
1	40,083						-46,09
2 3	40,083	6,012					-46,09
			5,468			1,555	1,55
4			10,937		-	7,112	7,11
5			10,937		1 '	7,112	7,11
6			10,937		4,002	7,112	7,11
7			10,937		4,002	7,112	7,11
8			10,937	177		7,112	7,11
9			10,937	177			7,11
10			10,937	177	4,002	7,112	7,11
11			10,937	177	4,002	7,112	7,11
12			10,937	177	4,002	7,112	7,11
13			10,937	177	4,002	7,112	7,11
14			10,937	177	4,002	7,112	7,11
15			10,937	177	4,002	7,112	7,11
16			10,937	177	4,002	7,112	7,11
17			10,937	177	4,002	7,112	7,11
18			10,937	177	4,002	7,112	7,11
19			10,937	177	4,002	7,112	7,11
20			10,937	177	4,002	7,112	7,11
21			10,937	177	4,002	7,112	7,11
22			10,937	177	4,002	7,112	7,11
23			10,937		4,002	7,112	7,11
24			10,937		4,002	7,112	7,11
25			10,937		4,002	7,112	7,11
26			10,937			7,112	7,11
27			10,937	1			· ·
28			10,937	1			
29			10,937	1	1	1	
30	-		10,937		1	•	7,11
			10,557		.,		FIRR
							5.5

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# 4) Financial analysis of milk collection centre

- a. Total volume of milk sold per year: 608,3331.(5,0001\*1/3\*365days)
- b. Buying price 300 USHS/l ; selling price 400 USHS/l.
- c. Operation cost per litre: 48 USHS.
- d. As for case No.1, operation to start in third year at 50% and to reach 100% rate in 4th year.
- e. As for case No.2, operation to start in third year at 40% and to reach 80% in 4th year.
- f. Exchange rate: 1,185 USHS/US\$.

								US\$
'ear	Investment		Income	Cost			Balance	Balance
	Construction	Engineering	Sales	Material	Operation	Income cost	case No.1	case No.2
		service	205,345	154,008	25,668			
1	34,609	5,191					-39,800	-39,8
2	34,609	5,191					-39,800	
3			102,672	77,004	25,668	0	0	i
4			205,345					
5			205,345	154,008				
6			205,345	154,008	25,668	25,668		
7			205,345	154,008	25,668	25,668	l	
8			205,345	154,008	25,668	25,668		
9	-		205,345	154,008	25,668	25,668	25,668	
10	-		205,345	154,008	25,668	25,668	25,668	15,4
11			205,345	154,008	25,668	25,668		
12			205,345	154,008	25,668	25,668	25,668	
13			205,345	154,008	25,668	25,668	25,668	15,4
14			205,345	154,008	25,668	25,668	25,668	15,4
15			205,345	154,008	25,668	25,668	25,668	
16			205,345	154,008	25,668	25,668	25,668	
17			205,345	154,008	25,668	25,668	25,668	
18			205,345	154,008	25,668	25,668	25,668	15,4
19			205,345	154,008	25,668	25,668	25,668	15,4
20			205,345	154,008	25,668	25,668	25,668	15,4
21	• -		205,345		25,668	25,668	25,668	15,4
22	2		205,345	1	25,668	25,668	25,668	15,4
23			205,345	1	25,668	25,668	25,668	15,4
24	- 		205,345		25,668	25,668	25,668	15,4
25			205,345	1				15,4
26			205,345				F	15,4
27			205,345			1		
28			205,345	1		3		15,4
29			205,345			-		•
30			205,345			25,668		[ · · · ·
				<u>,,,,,</u>		· · · · · · · · · · · · · · · · · · ·	FIRR	FIRR
							23.3%	14.6



# 5) Financial analysis of rice processing facilities

#### Conditions

a. Total volume of rice processed per year: 562 ton.

- (2.45ton/season \* 2seasons /year \* 5,390ha/47units)
- b. Processing price: 30 USHS/kg.
- c. Operation cost: 22.5 USHS/kg.
- d. Operation to start in third year at 50% and to reach 100% in 4th year.
- e. Exchange rate: 1,185 USHS/US\$.

	Lucastanaut		Income	Cost	·····	US\$
ycar	Investment	Transfer and strains of	Sales		Income cost	Balance
	Construction			Operation	meome cost	Datalice
		service	14,228	10,671		
1	7,045	1,057				-8,10
2	7,045	1,057		10 (71	2.557	-8,10
3			7,114		-3,557	
4			14,228	10,671	3,557	
5			14,228		3,557	1
6			14,228	10,671	3,557	· · ·
7			14,228	10,671	3,557	-
8			14,228		3,557	
9			14,228		3,557	
10			14,228		3,557	
11			14,228	-	3,557	
12			14,228	10,671	3,557	
13			14,228		3,557	1
14			14,228		3,557	3,55
15			14,228		3,557	3,55
16			14,228		3,557	3,55
17			14,228		3,557	3,55
18			14,228	10,671	3,557	
19			14,228	10.671	3,557	3,55
20			14,228	10,671	3,557	3,55
21			14,228	10,671	3,557	3,55
22			14,228	10,671	3,557	3,55
23			14,228	10,671	3,557	3,55
24			14,228	10,671	3,557	
25			14,228	10,671	3,557	3,55
26			14,228	10,671	3,557	3,55
27			14,228	10,671	3,557	
28			14,228	10,671	3,557	3,55
29			14,228	10,671	3,557	3,55
30			14,228	10,671	3,557	3,55
					· · · · · · · · · · · · · · · · · · ·	FIRR
						14.89







Conditions

a. The storage capacity: 60 ton.

b. Total handling volume: 90 ton/year.

c. Handling charge: 25 USHS/kg.

d. Operation cost: 16 USHS/kg e. Operation to start in third year at 50% and to reach 100% in 4th year.

f. Exchange rate: 1,185 USHS/US\$.

/ear	Investment		Income	Cost		
	Construction	Engineering	Sales	Operation	Income cost	Balance
		service	1,899	1.215		
1	6,810	1,022				-7,83
2	6,810	1,022				-7,83
3			949	1,215	-266	-26
4			1,899	1,215	684	68
5			1,899	1,215	684	68
6			1,899	1,215	684	68
6 7			1,899	1,215	684	68
8			1,899	1,215	684	68
9			1,899	1,215	684	68
10			1,899	1,215	684	68
11			1,899	1,215	684	68
12			1,899	1,215	684	68
13			1,899	1,215	684	68
14			1,899	1,215	684	68
15			1,899	1,215	684	68
16			1,899	1,215	684	68
17			1,899	1,215	684	68
18			1,899	1,215	684	68
19			1,899	1,215	684	68
20		1	1,899	1,215	684	68
21		]	1,899	1,215	· 684	68
22			1,899	1,215	684	68
23			1,899	1,215	684	68
24			1,899	1,215	684	68
25			1,899	1,215	684	68
26			1,899		684	68
27			1,899			68
28		} ·	1,899			68
29			1,899			68
30			1,899		684	68
				·		FIRR
						1.09

# 7) Financial analysis of cereal warehouse (cotton)

Conditions

a. The storage capacity: 60 ton.

b. Total handling volume of cotton: 90 ton/year.

c. Handling charge: 50 USHS/kg.

d. Operation cost: 16 USHS/kg

e. Operation to start in third year at 50% and to reach 100% in 4th year.

f. Exchange rate: 1,185 USHS/US\$.

/car	Investment		Income	Cost		
	Construction	Engineering	Sales	Operation	Income cost	Balance
		service	3,797	1,215		
1	21,300	3,195				-24,49
2	21,300	3,195				-24,49
3			1,899	1,215	684	68
4			3,797		2,582	2,58
5			3,797	1,215	2,582	2,58
6			3,797	1,215	2,582	2,58
7			3,797	1,215	2,582	2,58
.8			3,797	1,215	2,582	2,58
9			3,797	1,215	2,582	2,58
10			3,797	1,215	2,582	2,58
11			3,797	1,215	2,582	2,58
12			3,797	1,215	2,582	2,58
13			3,797	1,215	2,582	2,58
14			3,797	1,215	2,582	2,58
15			3,797	1,215	2,582	2,58
16			3,797	1,215	2,582	2,58
17			3,797	1,215	2,582	2,58
18			3,797	1,215	2,582	2,58
19			3,797	1,215	2,582	
20			3,797	1,215	2,582	2,58
21			3,797	1,215	2,582	2,58
22	-		3,797			2,58
23			3,797			
24			3,797	1,215	2,582	2,58
25			3,797	1,215	2,582	
26			3,797	1,215		
27			3,797	1,215		
28			3,797	1,215	2,582	2,58
29			3,797	1,215	2,582	2,58
30			3,797	1,215	2,582	2,58
						FIRR
	}					2.5

8) Financial analysis of solar drying facility

- a. The life of plastic greenhouse: one year.
- b. Gross benefit: 131.6 million USHS/year
- c. Operation cost: 76.3 million USHS/year,
- of which facility cost :9.3 million USHS/year
- d. Operation to start in first year at 20% and to to reach 100% in 5th year.
- e. Exchange rate: 1,185 USHS/US\$.

						US\$
year	Investment		Income	Cost		
	Construction	Engincering	Sales	Operation	Income cost	Balance
		service	3,797	1,215		
1	7,848	1,177	22,211	56,540		-43,35
2	7,848	1,177	44,422	56,540		
3	7,848	1,177	66,633	56,540	10,093	
4	7,848	1,177	88,844	56,540	32,304	
5	7,848	İ,177	111,055	56,540	54,515	45,48
6	7,848	1,177	111,055	56,540	54,515	45,48
7	7,848	1,177	111,055	56,540	54,515	45,48
8	7,848	1,177	111,055	56,540	54,515	45,48
9	7,848	1,177	111,055	56,540	54,515	45,48
10	7,848	1,177	111;055	56,540	54,515	45,48
11	7,848	1,177	111,055	56,540	54,515	45,48
12	7,848	1,177	111,055	56,540	54,515	45,48
13	7,848	1,177	111,055	56,540	54,515	45,48
14	7,848	1,177	111,055	56,540	54,515	45,48
15	7,848	1,177	111,055	56,540	54,515	45,48
16	7,848	1,177	111,055	56,540	54,515	45,48
17	7,848	1,177	111,055	56,540	54,515	45,48
18	7,848	1,177	111,055	56,540	54,515	45,48
19	7,848	1,177	111,055	56,540	54,515	45,48
20	7,848	1,177	111,055	56,540	54,515	45,48
21	7,848	1,177	111,055	56,540	54,515	45,48
22	7,848	1,177	111,055	56,540	54,515	45,48
23	7,848	1,177	111,055	56,540	54,515	45,48
24	7,848	1,177	111,055	56,540	54,515	45,48
25	7,848	1,177	111,055	56,540	54,515	45,48
26	7,848	1,177	111,055	56,540	. 54,515	45,48
27	7,848	1,177		56,540	54,515	45,48
28	7,848	1,177			54,515	45,48
29	7,848	1,177		56,540	54,515	45,48
30	7,848	1,177		56,540	54,515	45,48
		<u>·</u>	······			FIRR
						36.4

# 9) Financial analysis of jaggary and drying factory

## Conditions

a. The life of facilities: ten year.

- b. Gross benefit: 5,622.9 million USHS/year
- c. Operation cost: 4,498.3 million USHS/year,
- of which facility cost :2,991.3 million USHS/year\*5year
- d. Operation to start in first year at 50% and to to reach 100% in second year.

e. Exchange rate: 1,185 USHS/US\$.

				·		'000US\$
'ear	Investment		Income	Cost	_	
	Construction		Sales	Operation	Income cost	Balance
	· · · · · · · · · · · · · · · · · · ·	service	3,797	1,215		
1	12,622	1,893	2,373			
2	0	0	4,745	1,272	3,473	
3	0	0	4,745	1,272	3,473	3,473
4	0	0	4,745	1,272	3,473	3,47
5	0	0	4,745	1,272	3,473	
6		0	4,745	1,272	3,473	
7	0	0	4,745	1,272	3,473	
8	0	0	4,745	1,272	3,473	
9	0	0	4,745	1,272	3,473	3,47
10	0	0	4,745	1,272	3,473	3,47
11	12,622	1,893	2,373	636	1,737	-12,77
12	0	0	4,745	1,272	3,473	3,47
13	0	0	4,745			3,47
14	0	0	4,745	1,272	3,473	3,47
15	0	0	4,745	1,272	3,473	3,47
16		0		1,272	3,473	3,47
17	0	. 0	4,745			
18					3,473	
19			4,745			
20		0		1,272		1
21	12,622	1,893	2,373			
22	0	0	4,745			
23		0				1
24						
25					5	
26					3,473	
27	0					£
28						
29	0	0	4,745			
30				1,272	3,473	3,47
			i	·····	· · · · · · · · · · · · · · · · · · ·	FIRR
•						22.99

Table A5.1.2 Financial Analysis of Farm Economy

1)Financial analysis of type 1-1: Coffee Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.

b. The loan will be back over 10 years.

c. Exchange rate is 1,185 USHS/US\$.

<b>U</b> . 1	5.000	e is 1.185 US			(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	А	В	C≔A-B	D	E=C-D
l	506	742	-236		-74:
2	1,371	742	628	506	122
3	1,532	742	790	506	28.
4	1,612	742	870		36
5	1,612	742	870		
6			870		36
7	1,612	742	870		
8	1,612	742	870	506	
9	1,612	742	870		
10	1,612	742	870		
11	1,612	742	870	506	
12	1,612	742	870		36
13	1,612	742	870	506	36
14	1,612	742	870		L
15	1,612	742	870		
16			870	506	
17	1,612	742	870		
18	1,612	742	870	506	
19	1,612	742	870		
20	1,612	742	870	506	36

			Fund Revenue	s and Expendit	ures			
Year	··	Middle-Long		· · · · ·				
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left ltem
i	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	212	212	0	0	0	0	-742	-742
2	0	0	0	0	0	42	80	-662
3	0	0	0	0	0	42	241	-421
4	0	0	0	0	0		322	-100
5	0	0	0	0	0	42	322	222
6	0	0	0	0	0	42	322	544
7	0	0	0	0	0	42	322	865
8	• 0	0	0	0	. 0	42	322	1,187
9	0	0	0	0	0	42	322	1,508
10	0	0	0		0	42	322	1,830
-11	0	0	0	0	0	42	322	2,152
12	0	0	0	0	0	0	364	
13	0	0	0	0	0	0	364	
14	0	0	0	0	0	0	364	
15	0	0	0	0	0	0		
16	0	0	0	0	0	0	364	3,972
17	0	0	0	0	0	0	364	
18	0	0	0	0	0	0	364	4,699
19	0	0	0	0	0	0	364	
20	0	0	0	0	0		364	5,427
		<b></b>				FIRR=	33%	

(Unit:US\$)

2)Financial analysis of type 1-2: Vanilla Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.

b. The loan will be back over 10 years.c. Exchange rate is 1,185 USHS/US\$.

0.1	Achange rat	e is 1,165 Uz	110/004.	• .	(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
-	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	A	В	C≔A-B	D	E=C-D
1	506	314	192	506	-314
2	1,451	314		506	630
3	1,622	314	1,307	506	801
4	1,707	314	1,393		886
5	1,707	314			886
6		314	1,393		886
7	1,707				886
8	1,707		L		886
9	1,707	314			886
10	1,707	314	1,393		886
11	1,707	314	1,393	506	886
12	1,707	314	1,393	506	886
13	1,707	314	1,393		886
14	1,707	314	1,393		886
15	1,707	314			886
16	1,707	314			
17	1,707				
18	1,707	314			
19	1,707	314	and the second sec		
20	1,707	314	1,393	506	886

	× •				τ.	• ^	*	
1	F 1	31	n 1	t۰		•	\$)	

								(0111.033)
			Fund Revenue	s and Expendit	ures			
Year		Middle-Long	Term Fund					
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	125	125	0	0	0	0	-314	-3
2	0	0	0	0	0	25	605	2
3	0	0	0	0	0	25	776	1,0
- 4	0	0	0	0	0	25	862	1,9
5	0	0	0	0	0	25	862	2,7
. 6	0	0	0	0	0	25	862	3,6
7	0	0	0	0	0	25	862	4,5
8	0	0	0	0	0	25	862	5,3
- 9	0	0	0	0	. 0	25	862	6,2
10	0	0	0	0	0	25	862	7,0
11	0	0	0	0	U	25	862	7,9
12	0	0	0	Ö	0	0	886	8,8
13	0	0	0	0	0	0	886	9,7
14	0	0	0	- 0	0	0	886	10,6
15	0	0	0	0	0	0	886	11,5
- 16	0	0	0	0	0	0	886	12,3
17	0	0	0	0	0	0	886	13,2
18	0	0	0	0	0	0	886	14,1
19	0	0	0	0	Ö	. 0	886	15,0
20	0	0	0	0	. 0	0	886	15,9
	<u> </u>		L	L	4	FIRR=	213%	<b></b>

3)Financial analysis of type 2: Cocoa Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.

b. The loan will be back over 10 years.c. Exchange rate is 1,185 USHS/US\$.

C. I	exchange rate	e is 1,185 US	5034.		(Unit:US\$)
Voar	Gross	Total of	Agri-	House-	Disposable
1 Cai	Income	Running	cultural	keeping	Income
	Inconte	Costs	Income	Costs	meomo
	A	B	C=A-B	· D	E=C-D
1	506		-565		-1,072
2	1,853		781	506	ونبيه محصصص معاديه وجريه وا
3		1,072	999		
- 3	2,180		1,108		
5			1,108		
6	2,180		1,100		
7	2,180	1,072	1,108		
8		1,072	1,108		
9	2,180	1,072	1,108	La construction of the second s	
10		1,072	1,108		
11	2,180	1,072	1,108		
12	2,180	1,072	1,108		
12	2,180	1,072	1,108		
13		1,072	1,108		the second se
			1,108		
15		1,072	1,108		
16 17	2,180 2,180	1,072	1,108		
		1,072	1,108		v
18		1,072			
19	2,180		L		
20	2,180	1,072	1,108	000	002

20	2,180	1,072	1,108		002			(Unit:US\$)
		_ <u></u>	Fund Revenue	s and Expendit	ures			
Year		Middle-Long	Term Fund					
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G≃E-F	SUM(G)
1	312	312	0	0	0	0	-1,072	
2	0	0	0	0	0	62	213	-85
3	0	0	0	0	. 0	62	431	-42
4	0	0	0	0	0	62	540	11
5	. 0	0	0	0	0	62	540	65
6	0	0	0	0	0	62	540	1,19
7	0	0	0	0	0	62	540	
8	0	0	0	0	0	62	540	2,27
9	0	0	0	0	- 0	62	540	2,80
10	0	0	0	0	0	62	540	3,34
11	0	0	• 0	0	0	62	540	
12	0	0	0	0	0	0	602	4,49
13	0	0	0	0	0	0	602	5,09
14	0	0	0	0	0	0	602	5,69
15	0	0	. 0	0	0	.0	602	6,29
16	0	0	0	0	0	0	602	6,89
17	0	0	0	0	0	0	602	7,50
18	. 0	0	0	0	0	0	602	8,10
19	0	0	0	0	0	0	602	8,70
20	0	0	0	0	0	0	602	9,30
	L	<b>1</b>	L	<b>*</b> _ · _ + = · · · · · · · · · · · · · · · · · ·		FIRR=	40%	

4)Financial analysis of type 3-1: Sericulture Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.
b. The loan will be back over 10 years.
c. Exchange rate is 1,185 USHS/US\$.

Ç. 1	c. Exchange rate is 1,183 USHS/US\$. (Unit:US\$)										
Year	Gross	Total of	Agri-	House-	Disposable						
	Income	Running	cultural	keeping	Income						
		Costs	Income	Costs							
	A	В	C=A-B	D	E=C-D						
1	506	763	-257	506	-763						
2	1,565	763	802	506	296						
3	1,749	763	986	506	480						
4	1,841	763	1,078								
5	1,841	763	1,078	506							
6	1,841	763	1,078	506	572						
7	1,841	763	1,078	506	572						
8	1,841	763	1,078	506	572						
9	1,841	763	1,078	506	572						
10	1,841	763	1,078	506	572						
11	1,841	763	1,078	506	572						
12	1,841	763	1,078	506	572						
13	1,841	763	1,078	506	572						
14	1,841	763	1,078	506	572						
15	1,841	763	1,078	506	572						
16		763	1,078	506	572						
17	1,841	763	1,078		572						
18		763	1,078	506	572						
19		763	1,078	506	572						
20	1,841	763			572						

								(Unit:US\$)
				s and Expendit	ures			
Year		Middle-Long						
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	125	125	·	0	0	0	-763	
2	0	0	0	0	0	25	271	-49
3	0	0	0	0	0	25	455	
4	0	0	0		0	25	547	51
5	0	0	0	0	0	25	547	1,05
6	0	0	0	0	0	25	547	1,60
7	0	0	0	0	0	25	547	
8	0	0	0	. 0	- 0	25	547	2,69
9	0	0	0	0	0	25	547	3,24
10	0	0	0	0	0	25	547	3,79
11	0	0	0	0	0	25	547	4,33
12	0	0	0	0	0	0	572	4,91
13	0	0	0	0	0	. 0	572	5,48
14	0	. 0	0	0	0	0	572	6,05
15	0	. 0	0	0	. 0	0	572	6,62
16	0	0	0	0	0	0	572	7,19
17	0	0	0	0	0	0	572	7,77
18	0	0	0	0	0	0	572	8,34
19	0	0	0	0	0	0	572	8,91
20	0	0	0	0	0	0	572	9,48
	L	·	· · · · · · · · · · · · · · · · · · ·	<u> </u>	···	FIRR=	56%	

5)Financial analysis of type 3-2: Rice Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.
b. The loan will be back over 10 years.
c. Exchange rate is 1,185 USHS/US\$.

U. 1	skenange rav	e is 1,185 US	M 10/ 004.		(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	A	В	C=A-B	D	E=C-D
1	506	453	54	506	-453
2	1,344	453	892	506	
3	1,502	453	1,050		
4	1,581	453	1,129		623
5	1,581	453	1,129		
6	1,581	453	1,129		623
7	1,581	453	1,129		
8	1,581	453	1,129	506	623
9	1,581	453	1,129	506	
10	and the second	453	1,129	506	
11	1,581	453	1,129	506	
12	1,581	453	1,129		
13	1,581	453	1,129		
14	and the second second second	453	1,129		
15		453	and the second sec		
16		453	1,129		
17	1,581	453			
18		453	1,129		
19	1,581	453	1,129		
20	1,581	453	1,129	506	623

20	1,581	453	1,129	506	623			(Unit:US\$)
			Fund Revenue	s and Expendit	ures			(01111.004)
Year		Middle-Long		<u></u>				
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
1	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	858	0	0	0	858			-4
2	0	0	0		0		. 214	-2
3	0	0	0	0	. 0	171	373	1:
4	0	0	0	0	0	171	452	5
5	0	0	0		. 0		452	1,0
6	0	0	0	0	0	171	452	1,4
7	0	0	0	0	0	171	452	1,9
8	0	0	0		0	I	452	2,3
9	0	0	0	0	0		452	2,8
10	0	0		0	0		452	3,2
11	0	0	0				452	3,74
12	0	0		0	·		623	4,3
13	0			0	0	0	623	4,9
14	0					0		5,6
15	0	L					623	6,2
16	0		0	0	0	0	623	6,8
17	0		0	0	0			7,4
18	0	<u></u>	0					8,10
19	0	<u> </u>	[				L	8,7
20	0	0	0	0	0		623	9,3
						FIRR=	73%	

6)Financial analysis of type 4: Vegetable Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.b. The loan will be back over 10 years.c. Exchange rate is 1,185 USHS/US\$.

U. 1	c. Exchange rate is 1,185 USH5/USD.										
					(Unit:US\$)						
Year	Gross	Total of	Agri-	House-	Disposable						
	Income	Running	cultural	keeping	Income						
		Costs	Income	Costs							
	Λ	В	C=A-B	D	E=C-D						
l	506	559	-52	506	-559						
2	1,495	559	937	506	430						
3	1,671	559	1,113	506	606						
4	1,759	559	1,201	506	694						
5	1,759	559	1,201	506	694						
6	1,759	559	1,201	506	694						
7	1,759	559	1,201	506	694						
8	1,759	559	1,201	506	694						
9	1,759	559	1,201	506	694						
10	1,759	559	1,201	506	694						
11	1,759	559	1,201	506	694						
12	1,759	559	1,201	506	694						
13	1,759	559	1,201	506	694						
14	1,759	559	1,201	506	694						
15	1,759		1,201	506	694						
16			1,201	506	694						
17	1,759	······	1.201	506	694						
18	1,759	559	1,201	506	694						
19	1,759	559	1.201	506	694						
20			1,201	506	694						

(Unit:US\$)

.

								(0111.053)		
		Fund Revenues and Expenditures								
Year		Middle-Long	Term Fund							
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of		
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item		
	Cost	Project	Project		Project	F	G=E-F	SUM(G)		
1	235	83	152	0	0	0	-559			
2	0	0	0	0	0	47	384			
3	0	0	0	. 0	0	47	559			
4	0	0	0	0	0	47	647	1,03		
5	0	0	0	0	0	47	647	1,67		
6	0	0	0	0	0	47	647	2,32		
7	0	0	0	0	0	47	647	2,9		
8	0	0	0	0	0	47	647	3,62		
- 9	0	0	0	0	- 0	47	647	4,20		
10	0	0	0	0	0	47	647	4,9		
11	0	0	0	0	0	47	647			
12	0	0	0	0	0	0	694			
13	0	0	0	0	0	. 0	694			
. 14	0	0	0	0	0	. 0	694			
15	0	0	0	0	0	0	694			
16	0	0	0	0	0	0	694			
17	0	0	0	0	0	0	694			
18	0	0	0	0	0	0	694	the second se		
19	0	0	0	0	0	0	694			
20	0	0	0	0	0	0	694	11,8		
			······································			FIRR=	90%			



7)Financial analysis of type 5: Fruit Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.

b. The loan will be back over 10 years.

c. Exchange rate is 1,185 USHS/US\$.

	0.	e is 1,185 Ue			(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
.	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	Α	В	C=A-B	D	E=C-D
1	506	300	206	506	-300
2	1,168	300	869	506	
3	1,306	300			
4	1,375	300	1,075		568
5	1,375	300	1,075		
6	1,375	300	1,075		
7	1,375		1,075		
8	1,375		1,075	the second se	and the second s
9	1,375		1,075	506	568
10	1,375	300	1,075	506	568
11	1,375	300	1,075	506	568
12	1,375	300			568
13	1,375	300	1,075		
14	1,375	300	1,075		
15	1,375	300	1,075	506	568
16	1,375	300			
17	1,375				
18	1,375	300	1,075	the second se	
19	1,375	300	1,075	and the second se	
20	1,375	300	1,075	506	568

			1. A.				_	(Unit:US\$)
	[		Fund Revenue	s and Expendit	ures			
Year		Middle-Long	Term Fund					
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds		Left Item
	Cost	Project	Project		Project	F	G≓E-F	SUM(G)
1	282	100	182	0	0	0	-300	-300
2	0	0	0	0	0	56		(
3	0	0	0	0	0	56	443	449
4	0	0	0	0	0	56	512	96
5	. 0	0	0	0	0	56	512	1,470
6	0	0	0	0	0	56		1,986
7	0	0	0	0	0	56	512	2,49
8	0	0	0	0	0	56		3,010
9	0	0	0	0	0	56	512	3,52
10	0	. 0	0	0	0	56	512	4,03
11	0	0	0	0	0	56		4,54
12	0	0	0	0	0	0		5,11
13	0	0	0	0	0	0		5,68.
14	0	0	0	0	0	0	L	6,25
15	0	0	0	0	0	0	(	6,820
16	0	0	0	0	0		L	7,38
17	0	0	0	0	0	0		7,950
18	0	0	0	0	0		<b></b>	8,52
19	0	0	0	0	0	0		9,09
20	0	0	0	0	0	0	1	9,66
		· · ·				FIRR=	127%	

(Unit:US\$)

# 8)Financial analysis of type 6: Oil crops Conditions: a. Exchange rate is 1,185 USHS/US\$.

				_	(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	A	В	C=A-B	D	E=C-D
1	506	960	-453	506	-960
2	1,471	960	511	506	5
3	1,644	960	685	506	178
4	1,731	960	771	506	265
5	1,731	960	771	506	265
6	1,731	960	771	506	265
7	1,731	960		506	
8	1,731	960	771	506	
9	1,731	960		506	
10	1,731	960	771	506	
11	1,731	960	771	506	265
12	1,731	960	771	506	
13	1,731	960	771	.506	265
14	1,731	960	771	506	
15	1,731	960	771	506	265
16	1,731	960	771	506	265
17	1,731	960	771	506	
18	1,731	960	771	506	
- 19	1,731	960		506	
20	1,731	960	771	506	265

20	1,731	960	//1	506	205			
			<u> </u>				·····	(Unit:US\$)
				s and Expendit	ures			
Year		Middle-Long	Term Fund	-			(	
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	0	- 0	0	0	0	0	-960	
2	0	0	0	0	0	0	5	-955
3	0	0	0	0	0	0	178	
4	0	0	0	0	. 0	0	265	
5	0	0	0	0	0	0		
6	0	0	0	0	0	0	265	
7	0	0	0	0	0	0		
8	0	0	0	0	0	0		
9	0	0	0	0	0	0	265	
10	0	0	0	0	0 :	0	265	
11	0	0	0	0	0	0	265	
12	0	0	0	0	. 0	0	265	1,600
13	0	0	0	0	0	0	265	
14	0	0	0	0	0	0	265	
15	0	0	0	0	0	0	265	2,400
16	0	0	0	0	0	0	265	2,66
17	0	0	0	0	0	0	265	
18	0	0	. 0	0	0	0	265	3,19
19	0	0	0	0	0	0	265	3,459
20	0	0	0	0	0	0	265	3,724
			L	L	L	FIRR=	21%	å

# 9)Financial analysis of type 7: Cotton Conditions:

a. Exchange rate is 1,185 USHS/US\$.

					(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
İ	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	A	B	C=A-B	D	E=C-D
1	506		transfer to the second se	506	
2	1,440	917	523		······
3	1,609	917		the second second second second second second second second second second second second second second second se	and the second se
4	1,694	917		506	
5	1,694			1	
6			L		
7	1,694	917	1		
8	1,694		L	506	
9					
10	1,694	917		506	
11	1,694	917		the second second second second second second second second second second second second second second second s	
12	1,694		1	506	
13	1,694	917	777		
14	1,694	917			
15	1,694	917		the second second second second second second second second second second second second second second second s	the second second second second second second second second second second second second second second second s
16					
17	1,694	917		the second second second second second second second second second second second second second second second se	
18		Survey of the second second second second second second second second second second second second second second	1		
19	1,694				
20	1,694	917	177	506	271

								(Unit:US\$)
				s and Expendit	ures			
Year		Middle-Long	Term Fund					
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	0	0	0	Ö	0	0	-917	-91
2	0	0	0	0	0	0	16	-90
3	0	0	0	0	0	0		-71
4	0	0	0	- 0	0	0		-44
5	0	0	0	0	0	0		-17
6	0	: . 0	0	0	0	0	271	9
7	0	0	0	0	0	0	271	36
8	0	0	0	0	0	0	271	62
9	0	0	0	0	. 0	0		9(
10	0	• 0	0	0	0	0	271	1,17
11	0	0	• 0	Ó	0	0	271	1,45
12	0	0	• 0	0	0	0	271	1,72
13	0	.0	0	0	0	0		1,99
14	0	0	0	0	0	0	271	2,26
15	0	0	0	0	0	0	271	2,53
16	0	0	0	0	0	0 -	271	2,80
17	0	0	0	0	0	0	271	3,07
18	0	0	0	0	0	0	271	3,34
19	0	0	0	0	0	0	271	3,61
20	0	0	0	0	0	Ő	271	3,88
	· ·			·	·	FIRR=	22%	

(Unit-US\$)

# 10)Financial analysis of type 8-1: Dairy Conditions:

a. Exchange rate is 1,185 USHS/US\$.

					(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	A	В	C=A-B	$\mathbf{D}_{i}$ .	E=C-D
1	506	2,538	-2,032	506	-2,538
2	3,154	2,538	616	506	109
3	3,525	2,538	987	506	480
4	3,711	2,538	1,172	506	666
5	3,711	2,538		506	
6	3,711	2,538		506	666
7	3,711	2,538	1,172	506	666
8		2,538		506	666
9	3,711	2,538		506	
10		2,538		506	660
11	3,711	2,538		506	
12		2,538		506	666
13		2,538		506	a construction of the second se
14		2,538		506	
15		2,538			
16		2,538			
17	3,711	2,538		506	
18		2,538		506	
19	· · · · · · · · · · · · · · · · · · ·	2,538		506	
20	3,711	2,538	1,172	506	666

(Unit:US\$) Fund Revenues and Expenditures Middle-Long Term Fund Year Paddy Field Redemption Total of Total of Farm Land Land Irrigation Surplus Left Item Improvement Reclamation Project Reclamation Funds Funds Project SUM(G) G=E-F Project Cost Project Project F -2,538 -2,538 Ö -2,429 Ô Ō -1,948 -1,282 -616  $\overline{0}$ Ö  $\frac{0}{0}$ 1,382 Ò õ 8 9 2,047 2,713 3,379 ō 4,045 4,711 5,377 6,043 Ō 6,709 õ õ Õ 7,375 8,041 Õ 8,707 Ö Ò 9,373 21%

- 399-

11)Financial analysis of type 8-2: Beef Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.

b. The loan will be back over 10 years. c. Exchange rate is 1,185 USHS/US\$.

U. I	exchange rate		1101004.		(Unit:US\$)
Year	Gross	Total of	Agri-	House-	Disposable
	Income	Running	cultural	keeping	Income
i		Costs	Income	Costs	
	A	В	C=A-B	D	E=C-D
1	506	1,242	-736	506	-1,242
2	2,110	1,242	868	506	362
3	2,358	1,242	1,116	506	
4		1,242	1,240	506	
5	2,482	1,242	1,240	. 506	
6	2,482	1,242	1,240	506	
7	2,482	1,242	1,240	506	
8	2,482	1,242	1,240	506	A REAL PROPERTY AND ADDRESS OF AD
9	2,482	1,242	1,240	506	
10	2,482	1,242	1,240	506	a management of the second second second second second second second second second second second second second
11	2,482	1,242	1,240		
12	2,482	1,242	1,240		
13	2,482	1,242	1,240	506	
14	2,482	1,242	1,240	506	734
15	2,482	1,242	1,240	506	
16	2,482	1,242	1,240	506	734
17	2,482	1,242	1,240	506	734
18	2,482	1,242	1,240		
19	2,482	1,242	1,240	506	
20	2,482	1,242	1,240	506	734

20	2,482	1,242	1,240	000	/34	ł		(Unit:US\$)
			Fund Revenue	s and Expendi	tures			
Year		Middle-Long	Term Fund				•	
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	441	0	441	0	0	0	-1,242	-1,24
2	0	0	0	0	0	88	274	-96
3	0	0	0	0	0	88	522	-44
4	0	0	0	0	0	88	646	-2(
5	0	0	0	. 0	0	88	646	84
6	0	0	0	0	0	88	646	1,49
7	0	0	0	0	0	88	646	2,13
8	0	0	0	0	0	88	646	2,78
9	0	0	0	0	0	88	646	3,43
10	0	0	0	. 0	0	88	646	4,0
11	0	0	. 0	0	.0	88	646	4,72
12	0	0	0	0	0	0	734	5,4:
13	0	0	0	0	0	0	734	6,19
14	0	0	0	. 0	0	. 0	734	6,9
15	0	0	0	0	0	0	734	7,60
16	0	0	Q	0	0	0	734	8,39
17	0	0	0	0	0	0	734	9,1
18	0	0	0	0	0	0		
19	0	0	0	0	0	0	734	10,59
20	. 0	0	0	0	0	0	734	11,33
			<u> </u>	•		FIRR=	41%	

12)Financial analysis of type 8-3: Beef+Goat Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.b. The loan will be back over 10 years.c. Exchange rate is 1,185 USHS/US\$.

с. г	c. Exchange rate is 1,185 USH5/US\$.										
					(Unit:US\$)						
Year	Gross	Total of	Agri-	House-	Disposable						
	Income	Running	cultural	keeping	Income						
		Costs	Income	Costs							
	A	В	C=A-B	D	E=C-D						
1	506	1,358	-852	506	-1,358						
2	2,187	1,358	828	506	322						
3	2,444	1,358	1,086	506							
4	2,572	1,358	1,214	506							
5	2,572	1,358		506							
6	2,572	1,358	1,214	506							
7	2,572	1,358	1,214	506							
8	2,572	1,358	1.214	506							
9	2,572	1,358	1,214	506							
10	2,572	1,358	1,214	506							
11	2,572	1,358	1,214	506							
12	2,572	1,358	1,214	506							
13	2,572	1,358	1,214	506							
14	2,572	1,358	1,214	506							
15	2,572	1,358	1,214	506	708						
16	2,572	1,358	1,214	-506							
17	2,572	1,358									
18	2,572	1,358	1,214	506							
19	2,572	1,358	1,214	506							
20	2,572	1,358	1,214	506	708						

- 20	2,572	1,358	1,214	506	708			
		<u>.</u>	· .					(Unit:US\$)
				s and Expendit	lures			
Year		Middle-Long	Term Fund					
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	Funds	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	350	0	350		0	×	-1,358	
2	0	0	0	0	0	70		-1,100
3	0	0	0	1	0	. 70	510	-596
4	0	0	0		0	70	638	42
5	0	0	0			70	638	680
6	0	0	0	0	0	.70		1,318
7	0	0	0	0	L	70		1,950
8	0	0	0	. 0		70		2,59
- 9	0	0	0		I	70	638	3,23
10	0	0		0		70		3,87
11	0	0						
12	0	0				L	708	5,217
13	0	0					708	5,92
14	0	0	0	·	1.11.00.00		708	6,63
15	0	0	0	•		<b></b>		
16	0	0	0	0	0	0	708	8,048
17	0	0	0			0	708	
18	0	0	0					
19	0	0				0	708	10,172
20	0	0	0	0	0	*	708	10,880
						FIRR=	37%	

FIRR=

13)Financial analysis of type 8-4: Poultry Conditions:

a. All project costs will be loaned from the bank at 15% interest rate per year.

b. The loan will be back over 10 years.c. Exchange rate is 1,185 USHS/US\$.

Year	Gross	Total of	Agri-	House-	Disposable
	Income	Running	cultural	keeping	Income
		Costs	Income	Costs	
	A	В	C=A-B	D	E=C-D
1	506	2,843	-2,336		-2,84
2	3,356	2,843	513	506	
. 3	3,751	2,843	908	506	
4	3,948	2,843	1,106	506	
5	3,948	2,843	1,106	506	59
6	3,948	2,843	1,106	506	
7	3,948	2,843	1,106	506	
8	3,948	2,843	1,106		
9	3,948		1,106	the second second second second second second second second second second second second second second second se	59
10	3,948	2,843	1,106	506	59
11	3,948	2,843	1,106		
12	3,948	2,843	1,106		
13	3,948	2,843	1,106	506	59
14	3,948	2,843	1,106	506	
15	3,948	2,843	1,106	506	
16	3,948	2,843	1,106	506	
17	3,948	2,843	1,106	506	
18	3,948	2,843	1,106	506	
19	3,948	2,843	1,106		
20	3,948	2,843	1,106	506	599

20	3,948	2,843	1,106	500				(Unit:US\$)
	······································		Fund Revenue	s and Expendit	ures			
Year		Middle-Long	Term Fund					
	Total of	Farm Land	Land	Irrigation	Paddy Field	Redemption	Surplus	Total of
	Project	Improvement	Reclamation	Project	Reclamation	Funds	<b>i</b> .	Left Item
	Cost	Project	Project		Project	F	G=E-F	SUM(G)
1	172	. 0	172	0	0	0		
2	C	0	0	0	0	34	-27	-2,87
3	C	0	0	0	0	34	368	-2,50
4	- C	0	0	0	0	34	565	-1,93
5	(	0	0	0	0	34		
6	C	0	0	0	0	34	565	
7	· C	0	0	0	. 0	34	565	-24
8	0	0	0	Û	0	34		
- 9	C	0	0	0	0	. 34	565	88
10		0	0	0	0	34	565	1,45
11	0	0	0	0	0	34	565	2,02
12	C	0	. 0	0	0	0	599	2,61
13	C	0	0	0	.0	0	. 599	3,21
14	0		0	0	0	0	599	3,81
15	C	0	0	0	0	0	599	4,41
16	0	J	0	- 0	. 0	0	599	5,01
17	0		0	0	0	0	599	5,61
18	0		0	0	0	0	599	6,21
19	0		0	0	0	. 0	599	_6,81
20	0	L	0	. 0	0.	0	599	7,41
		L			L	FIRR=	15%	· · · · · · · · · · · · · · · · · · ·

			ľ	Off-larm costs					Farmgate price	Farmgate price	
Crop	Exp. price	Processing costs USHS	costs	Marketing costs USHS	g costs S	Collecting costs USHS	z custs S	Out-turn ratio	(Market) USHS/Kg	(Fconomic) USHS/kg	Remarks
		Foreign	Local -	Foreign	Local	Foreign	Local	Latio			
Casn crops Coffee(Robsta)	1.00	84.40	126.60	138,46	92.30	0.00	55.50			356.96	356.96 (ctonal)
Sugar cane									22.00		
Tca	1.24	354.74	354.74			66.32	44.22	4.7		146.26	146.26 (out-growers)
Cacao	1.00		<b>•</b>	172.79	115.19		40.00			871.83	
Cotton	1.20	46.37	108.20	78.73	183.70		46.01	3.02		328.22	328.22 (hand-hoc with spray)
Vanilla	50.00	10,800.00	10,800.00	7,200.00	4,800.00	210.00	140.00	5.95		4,504.48	
Staple Food Crops											
Banana								-	90.00		
Cassava									92.00		
Sweet Potatos									88.00		
Irish Potatos									107.00		
Cereals											
Maize	0.18	11.33	16.99	9.08	9.08		32.19		-	140.19	
Finger Millet								=	242.00		
Sorgum									210.00		
Ricc(paddy)	0.35	25.00	25.00	9.08	9.08		20.00			331.75	
Pulses											
Bcans	0.41	18.39	18.39	86.40	57.60		34 73			280.90	
Oil crops											
Groundnts	0.50	13.80	20.70	84,81	56.54		53.85			375.31	
Soyabean	0.23	14.41	21.62	94.33	40.43		33.28			77.57	
Sunflowers/simsim	0.60	38.23	57.34	82.17	54.78		47.43			446.27	
Vegetale											
Tomatos									130.00		
Onions					·			•	150.00		
Cabbages									150.00		
Fruit											
Pincapples									40.00		
Passionfruits									271.00		
Pawpaw									120.00		
Orange									85.00		
Mango									150.00		
Silk(cocoon)	v 20	1 284 00	00 930	03 220			-	5		14 X 10 Z Y 1	

Bank of Uganda, Agricultural Scretetariat, November 1993 Other datas are collected by study team. Note : Standard conversion factor (S.C.F.)=(M+X/V[(M+Tm)+(X-Tx+Sx)]

	= 0.9045977		
M :Import	733 mil. US\$	1992/93 price	Source:
X :Export	198.8 mil. US\$	1992/93 price	Note: In
Tm : Import tax	122839 mil. sh	1992/93 price	56/2661
Tx :Export tax	0 mil. sh	1992/93 price	and no r
Sx :Export subsidy	0 mil. sh	1992/93 price	
Excange rate:	1250 sh/USS	Average of 1992 July to 1993 May	v 1993 May

Source: Background to the Budget 1993-1994 Note: Includes some estimation in 1992/93 prices. 1992/93 price used in light of abolition of export tax and no mujor changes predicted in near future.

Table A5.2.2 I	Economic Benefit of	Agricultural	Infrastructure Project
----------------	---------------------	--------------	------------------------

		-,			na mprovement	Exchange	e rate =1,185	USHS/US\$
	Crops	Area (ha)	Yield (ton/ha)	Farm-gate price (USHS)	On-farm costs Foreign c. (USHS/ha)	Local c. (USHS/ha	Benefit (economic) '000US\$	Total benefit '000US\$
Present (without)	Cassava	43,000	5.32	46	38,100	25,500	6,661	6,661
Plan (with)	Coffee Pineapple Passionfruit Tomato	29,574 1,640 334 6,270	1.75 37.35 11.41 10.44	40 271	157,900 252,000	32,400 54,000	787	
	Onion Cabbage Green	138 2,926 2,115	9.11 6.98 9.11	150 150 150	154,800	72,000	134 2,042 2,049	
Benefit(wi	ith-without)			<u>.</u>	L	1		14,670

1) Economic benefit of Farm Land Improvement

# 2) Economic benefit of Land Reclamation Project

						Exchange	e rate =1,185	USHS/US\$
	[			Farm-gate	On-farm costs		Benefit	
	Crops	Area	Yield	price	Foreign c.	Local c.	(economic)	Total benefit
		(ha)	(ton/ha)	(USHS)	(USHS/ha)	(USHS/haj	'000US\$	'000US\$
Present (without)							0	0
						·		
Plan	Passionfruit	612	11.41	271	252,000			
(with)	Pineapple	5,246	37.35	40	157,900	32,400	5,785	
	Sugarcane	43,532	50.00	22	115,000	502,800	19,476	
	Tea	1,457	3.25	146	141,300	27,000	. 380	· · · ·
	Cacao	3,781	0.78	872	160,000	54,000	1,504	
	Maize	28,227	1.87	140	133,000	16,200	2,719	
	Onion	70	9.11	150	190,800	30,600	68	
	Cabbage	2,075	6.98	150	154,800	72,000	1,448	32,82
Benefit(w	ith-without)							32,821

		J) Louion	ic ocheric	or migation		Exchange	e rate =1,185	USHS/US\$
	Crops	Area (ha)	Yield (ton/ha)	Farm-gate price (USHS)	On-farm costs Foreign c. (USHS/ha)	Local c. (USHS/ha)		Total benefit '000US\$
Present (without)	Cassava	2,500				25,500	387	38′
Plan (with)	Passionfruit Tomato	1,375 1,125	13.12 12.01	271 130	252,000 223,000			
Benefit(wi	th-without)				<u> </u>	I	I	4,58′

# 3) Economic benefit of Irrigation Project

Note: It is estimated that yield increase rate by irrigation would be 15%.

4) Economic benefit of Paddy Field Reclamation Project

Exchange	rate $=1,185$	USHS/US\$
~		

<u></u>	I			Farm-gate	On-farm costs		Benefit	
	Crops	Area	Yield		Foreign c.	Local c.	(economic)	Total benefit
	_	(ha)	(ton/ha)	(USHS)	(USHS/ha)	(USHS/ha)	'000US\$	'000US\$
Present (without)		0	4.90	332	77,000		0	(
Plan (with)	Rice	5,390	4.90	332	77,000	23,600	6,947	6,947
	th-without)	J	······	<b>.</b>	l	1		6,941

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		5) Econom	ne benefit	of New Kar	ich rian	Exchange	e rate =1,185	USHS/US\$
	Cattle	Head	Gross Income (USHS/head)		On-farm costs Foreign c. (USHS/ha)	Local c. (USHS/ha)	Net Income	Total benefit '000US\$
Present (without)	Beef Goat	0 0	177,700 10,455		58,700 860			
		i						C
Plan (with)	Beef Goat & Seep	257,992 169,200			58,700 860	1	1	
								18,670
Benefit (w	vith-without)	••••••						18,670

# 5) Economic benefit of New Ranch Plan

6) Economic benefit of Grassland Improvement Project

		6) Econom	nc benefit	of Grassian	d Improvement	Frojeci	e rate =1,185	221/24211
			Gross	<del></del>	On-farm costs		$\overline{ \text{Net} }$	03110/000
	Cattle	Head	Income	·	Foreign c.	Local c.	1	Total benefit
	Carro	mouo	(USHS/head)		(USHS/ha)	(USHS/ha)	•	'000US\$
Present (without)	Beef Goat	655,058 443,100			58,700 860			
								47,502
Plan (with)	Beef Goat & Seep	793,902 1,486,124			58,700 860	1		1
								64,364
Benefit (w	ith-without)		I		£		ł	16,862

	1	6	m	4	5	9	7	8	6	10	11	12 (	(SSU000')
Item/Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Total
I.Investment cost													
LAgricultural infrastructure													
l)Farm land reclamation	8,384	8.384	8,384	8,384	8,384	8,384	8.384	8,384	8,384	8.384	0	0	83,845
2)Farm land improvement	3,541	3,541	3,541	3,541	3,541	3.541	3.541	3,541	3,541	3.541	0	0	35,413
3)Grass land development	668	668	668	668	668	. 668	668	668	668	668	0	0	6,678
4)Grass land improvement	961	961	196	961	961	961	196	961	196	196	0	0	9,608
5)Small scale irrigation	769	1.153	1.153	1.153	1.153	1.153	1.153	0	0	ð	0	0	7.686
6)Paddy field development	1.800	2.700	2.700	2.700	2.700	2.700	2.700	0	0	0	0	0	666-11
7)Livestock facility	168	1,907	1,907	1,907	1.907	1,740	1,629	1,629	1,629	1,629	1,629	0	17,684
Sub-Total	16,291	19,315	19,315	19,315	19.315	19,147	19,037	15,184	15,184	15,184	1.629	0	178,914
2. Agricultural support													
I)Research	1512	1512	C	C	C	c	C	C	C	c	c	C	3 074
Definition and a sector associate institute	2016		òc	00	00			• •				ò	2 916
(2)Namulonge agricultural & animal	010'5	>	0	2	5	5	>	>	>	>	<b>.</b>	>	01010
production research institute	0	2.677	0	0	0	0	0	¢	0	0	0	0	2,677
4)Kifu forestry research institute	0	1,607	0	0	0	0	0	0	0	0	0	0	1.607
2)Extension					ı	•	•	•	•				
(1)Bukalasa agn. colicge	3,138	50	0 1	0 1	-	50	5 0	- c	2 <	5 0	-	5 0	3,155
	1 500	202	CC011	0011	00			00			o c	00	366.6
A Description of U.S.	300	101 201	201	0 O L	2 YOL	202	> c	> c	> c			> c	2 081
	04C	D61 -				010	00	<b>)</b> (	00		<b>&gt;</b> <	> <	10210
(2) Improvement of working condition	1,15/	/01,1 26	101,1	/ C1, I	50	00		> <	-	00	> <	> <	e oc
(o) itaja overateta (ot jatata protectuo) (7) Tapasay & foot wear training school	រ ខ្ល	365	3 c	Ĵ ⊂	5 C	> c		> с		> c	- C	> c	730
3)Animal improvement		2	>	2	,	,	9	,	2	,	•	,	•
(1)Breed importation	1,241	1.241	1.241	1,241	1,241	0	0	Ō	0	0	0	0	6,207
(2)ABC(Artificial breeding centre)	86	98	0	0	0	0	0	0	0	0	0	0	196
(3)AI(Artificial insemination)	88	88	o	0	0	0	0	0	0	0	0	0	175
AISC(Artificatial instition sub-centre)	187	187	¢	0	0	0	0	0	0	0	0	0	374
(4) Veterinary center (Rehabilitation)	67	67	0	0	0	0	0	0	0	0	0	0	135
Veterinary center(Construction)	167	167	Ō	0	0	0	0	0	0	0	0	0	333
(5) Vaccine production laboratory 4) Machinary service	122	122	0	0	0	0	0	0	0	0	0	0	244
(1)AA (Agricultural association)	850	906	906	906	906	906	906	906	906	906	56	0	9.058
(2)]A (Irrigation association)	1.126	1.689	1.689	1.689	1.689	1.689	1.689	0	0	0	0	0	11,259
(3)LA (Livestock association)	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	0	0	14,670
Sub-Total	17 383	540 41	8 060	S OKO	6000	4 460	4 062	7 2 7 2	1373	575 6	36	0	72.044
		757757	2222	2222	1125	22.5K		]	1		•	ı	

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	1	2	ю	4	S	ę	7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6	10	11	12 (1	(2/2) (2/2)
llcm/Ycar	1996.	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Total
3. Processing and marketing													
1 )Slaughter slab	\$4	107	107	107	107	54	0	0	0	0	0	0	536
2)Slaughter house	61	61	0	0	0	0	0	0	0	0	0	0	122
3)Milk collection centre	101	101	101	101	0	0	0	0	0	0	0	0	405
4)Livestock market(10,200sq.m)	75	150	150	150	150	75	0	0	0	0	0	0	748
5)Cereal warehouse(60t)	211	421	421	421	421	211	0	0	0	0	0	0	2,107
6)Rice processing facility	0	63	63	<u>8</u>	83	63	63	63	63	63	63	0	635
7) Agricultural product collection center	2.285	4.570	4,570 î	4.570	4.570	2.285	0 (	0 (	0	0	0	0	22,850
8)Rchabilitation of	0	¢ i	0	0 0	0	0	0	0	0	0	0	¢	0
Masuka fruits factory	1.717	1.717	0	¢	0	0	0	0	0	0	0	0	3,433
Sub-Total	4.503	7,191	5,413	5,413	5.312	2.688	63	63	63	63	63	0	30,836
4.Rural & social infrastructure													
1) Borc holc	2.672	5,343	5,343	2.672	2.672	2.672	2,672	2,672	0	0	0	0	26,716
2) Spring	6.093	9.140	9,140	6,093	0	0	0	0	0	0	0	0	30,466
3) Primary school	162	162	162	162	162	162	162	162	162	162	0	0	1,622
4) Secondary school	67	67	67	67	67	67	67	67	67	67	0	0	670
5) Feeder road	2,120	3.306	3,306	2,120	2,120	1,186	1,186	1.186	0.	0	0	0	16.530
<ol><li>Community centre</li></ol>	519	1.039	1.039	1.039	1.039	519	0	0	¢	0	0	0	5,193
7) Electrification	3,957	3.957	3,957	3,957	3.957	3,957	3,957	3.957	3.957	3,957	0	0	39,574
Sub-Total	15,591	23,014	23,014	16,110	10.017	8,563	8,044	8.044	4.187	4,187	.0	0	120,772
5. Integrated development center	i	;	•	¢	,	•	•	•			ļ		
	51	51	Ð	c	0	Ð	Ð	o	Ð	ð	0	0	102
2) IDSC	82	82	0	0	0	0	0	0	0	0	0	0	165
3) DAO,DVO,DCO	213	213	0	0	0	0	0	0	0	Ð	0	0	427
Sub-Total	347	347	0	0	0	0	0	0	0	0	0	0	693
LInvestment cost total	54.115	64,811	56,702	49,798	40.743	34,857	31,206	25,664	21,807	21.807	1,749	¢	403,259
II. Administration cost	1.623	1,944	1,701	1,494	1,222	1,046	936	770	654	654	52	0	12,098
III. Physical contingency	5,412	6.481	5.670	4.980	4,074	3,486	3,121	2,566	2.181	2,181	175	0	40.326
IV.Engincering service	8,117	9,722	8,505	7,470	6,111	5,229	4.681	3.850	3,271	3,271	262	0	60,489
7)Livestock facility	0	1,629	1,629	1,629	1,629	1,629	1,629	1,629	1,629	1,629	1,629	0	16,294
Fence (A) 3-lines	0	500 200	200	200	20 20	200	200	200	500	200	200	O	2,002
Fence (B) 4-lines	0	127	127	127	127	127	127	127	127	127	127	0	1,271
Dipping & scale facility	0	92	92	92	92	92	92	52	92	52	62	0	920
Reservoir	0	165	165	165	165	165	165	165	165	165	165	0	1,647
Hay storage	0	247	247	247	247	247	247	247	247	247	247	0	2.470
House	0	861	798	798	798	798	798	798	798	798	798	0	7,984

(2/2)

# Table A5.2.4 Economic Analysis of Agricultural Infrastructure Project 1) Economic analysis of Farm land improvement project

- a. Economic benefit of project: 14,676,000 US\$. (see Table A5.2.2 (1))
- b. Project life: 30 years.
- c. Benefit will accrue from the 3rd year and reach the target in the 12th year.
- d. Economic project cost converted from market price using standard conversion factor (0.9046)
- e. Cost for engineering service = 15% of construction cost.
- f. Cost for administration = 3% of construction cost, accumulating annually in line with total project cost.

year		Project Cost		Benefit	
	Construc-	Engineer-	Administ-	with-	Balance
	tion	ing service	ration	without	
1	3,541	531	106	0	-4,179
2	3,541	531	212	0	-4,285
3	3,541	531	319	1,468	-2,924
4	3,541	531	425	2,935	-1,562
5	3,541	531	531	4,403	-201
6	3,541	531	637	5,870	1,160
7	3,541	531	744	7,338	2,522
8	3,541	531	850	8,806	3,883
9	3,541	531	956	10,273	5,244
10	3,541	531	1,062	11,741	6,606
11			1,062	13,208	12,146
12			1,062	14,676	13,613
13			1,062	14,676	13,613
14			1,062	14,676	13,613
15			1,062	14,676	13,613
16			1,062	14,676	13,613
17			1,062	14,676	13,613
18			1,062	14,676	13,613
19		6	1,062	14,676	13,613
20			1,062	14,676	13,613
21			1,062	14,676	13,613
22			1,062	14,676	13,613
23			1,062	14,676	13,613
24			1,062	14,676	13,613
25			1,062	14,676	13,613
26			1,062	14,676	13,613
27			1,062	14,676	13,613
28			1,062	14,676	13,613
29			1,062	14,676	13,613
30			1,062	14,676	13,613
				·····	EIRR
					25.4%

## 2) Economic analysis of Land Reclamation Project

- a. Economic benefit of project: 32,821,000 US\$. (see Table A5.2.2 (2))
- b. Project life: 30 years.
- c. Benefit will accrue from the 3rd year and reach the target in the 12th year.
- d. Economic project cost converted from market price using standard conversion factor (0.9046)
- c. Cost for engineering service = 15% of construction cost.
- f. Cost for administration = 3% of construction cost, accumulating annually in line with total project cost.

year		Project Cost		Benefit	
	Construc-	Engineer-	Administ-	with-	Balance
	tion	ing service	ration	without	
1	8,384	1,258	252	0	-9,894
2	8,384	1,258	503	0	-10,145
3	8,384	1,258	755	3,282	-7,115
4	8,384	1,258	1,006	6,564	-4,084
5	8,384	1,258	1,258	9,846	-1,054
6	8,384	1,258	1,509	13,128	1,977
7	8,384	1,258	1,761	16,411	5,008
8	8,384	1,258	2,012	19,693	8,038
9	8,384	1,258	2,264	22,975	11,069
10	8,384	1,258	2,515	26,257	14,099
11			2,515	29,539	27,024
12			2,515	32,821	30,306
13			2,515	32,821	30,306
14			2,515	32,821	30,306
15	:		2,515	32,821	30,306
16			2,515	32,821	30,306
17			2,515	32,821	30,306
18			2,515	32,821	30,306
19			2,515	32,821	30,306
20			2,515	32,821	30,306
21			2,515	32,821	30,306
22			2,515	32,821	30,306
23			2,515	32,821	30,306
24			2,515	32,821	30,306
25			-2,515	32,821	30,306
26			2,515	32,821	30,306
27			2,515	32,821	30,306
28			2,515	32,821	30,306
29		н. 	2,515	32,821	30,306
30			2,515	32,821	30,306
					EIRR
				· · · · ·	24.1%

# 3) Economic analysis of Small Scale Irrigation Project

- a. Economic benefit of project: 4,587,000 US\$. (see Table A5.2.2 (3))
- b. Project life: 30 years.
- c. Benefit will accrue from the 2nd year and reach the target in the 8th year.
- d. Economic project cost converted from market price using standard conversion factor (0.9046)
- e. Cost for engineering service = 15% of construction cost.
- f. Cost for administration = 3% of construction cost, accumulating annually in line with total project cost.

year		Projec	et Cost		Benefit	
	Construc-	Irrig'n	Engineer-	Administ-	with-	Balance
	tion	Associa'n	ing service	ration	without	ļ
1	769	912	252	50	0	-1,983
2	1,153	1,368	378	126	459	-2,566
3	1,153	1,368	378	202	1,147	-1,953
4	1,153	1,368	378	277	1,835	-1,341
5	1,153	1,368	378	353	2,523	-728
6	1,153	1,368	378	428	3,211	-116
7	1,153	1,368	378	504	3,899	496
8				504	4,587	4,083
9				504	4,587	4,083
10				504	4,587	4,083
11				504	4,587	4,083
12				504	4,587	4,083
13				504	4,587	4,083
14				504	4,587	4,083
15				504	4,587	4,083
16				504	4,587	4,083
17				504	4,587	4,083
18				504	4,587	4,083
19				504	4,587	4,083
20				504	4,587	4,083
21				504	4,587	4,083
22				504	4,587	4,083
23				504	4,587	4,083
24				504	4,587	4,083
25				504	4,587	4,083
26				504	4,587	4,083
27				504	4,587	4,083
28				504	4,587	4,083
29				504	4,587	4,083
30				504	4,587	4,083
		······································				EIRR
						20.4%

4) Economic analysis of Paddy Field Reclamation Project

- a. Economic benefit of project: 6,947,000 US\$. (see Table A5.2.2 (4))
- b. Project life: 30 years.
- c. Benefit will accrue from the 3rd year and reach the target in the 9th year.
- d. Economic project cost converted from market price using standard conversion factor (0.9046)
- e. Cost for engineering service = 15% of construction cost.
- f. Cost for administration = 3% of construction cost, accumulating annually in line with total project cost.

year		Projec	t Cost	······	Benefit	
	Construc-	Irrig'n	Engineer-	Administ-	with-	Balance
	tion	Associa'n	ing service	ration	without	
1	1,800	214	302	60	0	-2,162
2	2,700	321	453	151	0	-2,609
3	2,700	321	453	232	695	-1,648
4	2,700	321	453	313	1,737	-687
5	2,700	321	453	394	2,779	274
6	2,700	321	453	475	3,821	1,235
7	2,700	321	453	556	4,863	2,196
8				556	5,905	6,391
9				556	6,947	6,391
10				556	6,947	6,391
11				556	6,947	6,391
12				556	6,947	6,391
13		-		556	6,947	6,391
14				556	6,947	6,391
15				556	6,947	6,391
16				556	6,947	6,391
17				556	6,947	6,391
18				556	6,947	6,391
19				556	6,947	6,391
20				556	6,947	6,391
21				556	6,947	6,391
22				556	6,947	6,391
23				556	6,947	6,391
24				556	6,947	6,391
25				556	6,947	6,391
26	[			556	6,947	6,391
27			· · ·	556	6,947	6,391
28				556	6,947	6,391
29				556	6,947	6,391
30				556	6,947	6,391
		·····				EIRR
						29.5%

# 5) Economic analysis of New Ranch Plan

#### Conditions

- a. Economic benefit of project: 18,670,000 US\$. (see Table A5.2.2 (5))
- b. Project life: 30 years.
- c. Benefit will accrue from the 4th year and reach the target in the 13th year.
- d. Economic project cost converted from market price using standard conversion factor (0.9046)
- e. Cost for engineering service = 15% of construction cost.
- f. Cost for administration = 3% of construction cost,

accumulating annually in line with total project cost.

year			Project cost			Benifit	
		Construction	i cost	Engineering	Administ-	with-	Balance
	Grass dev.	Live. Faci.	Live. Asso.	Service	ration	without	
1	668	0	1,113	267	53	0	-2,101
23	668	1,629	1,113	512	156	0	-4,077
3	668	1,629	1,113	512	258	0	-4,180
4	668	1,629	1,113	512		1,867	-2,415
.5	668	1,629	1,113	512		3,734	-650
6		1,629	1,113	512			1,114
7		1,629	1,113	512	1	7,468	2,879
8	668	1,629		512			4,644
9	668	1,629		512		11,202	6,409
10	668	1,629	1,113	512			8,173
11		1,629		244	,	14,936	12,039
12					1,023	16,803	15,780
13			-		1,023	18,670	17,647
14					1,023	18,670	17,647
15					1,023	18,670	17,647
16				-	1,023		17,647
17	1				1,023	18,670	17,647
18					1,023	18,670	17,647
19					1,023	18,670	17,647
20					1,023	18,670	17,647
21	: 				1,023	18,670	17,647
22					1,023	18,670	17,647
23					1,023	18,670	17,647
24					1,023	18,670	17,647
25					1,023	18,670	17,647
26					1,023	18,670	17,647
27					1,023	18,670	17,647
28					1,023	18,670	17,647
29					1,023	18,670	17,647
30					1,023	18,670	17,647
							EIRR
							28.7%

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6) Economic analysis of Grassland Improvement Project

## Conditions

- a. Economic benefit of project: 16,862,000 US\$. (see Table A5.2.2 (6))
- b. Project life: 30 years.
- c. Benefit will accrue from the 4th year and reach the target in the 13th year.
- d. Economic project cost converted from market price using standard conversion factor (0.9046)
- e. Cost for engineering service = 15% of construction cost.
- f. Cost for administration = 3% of construction cost,

accumulating annually in line with total project cost.

year		····	Project cost			Benifit	
		Construction	cost	Engineering	Administ-	with-	Balance
	Grass dev.	Live. Faci.	Live. Asso.	Service	ration	without	
1	961	168	354	222	44	. 0	-1,750
2	961	278	354	239	92	- 0	-1,924
3	961	278	354	239	140	0	-1,972
4	961	278	354	239	188	1,686	-333
5	961	278	354	239	236	3,372	1,305
6	961	110	- 354	214	278		3,142
7	961	0	354	.197	318	6,745	4,915
8	961	0	- 354	197	357	8,431	6,562
9	961	0	- 354	197	397	10,117	8,208
10	961	0	354	197	436		9,855
11					436	· · ·	13,053
12					436		14,740
13					436	16,862	16,426
14					436	16,862	16,426
15					436	16,862	16,426
16					436	16,862	16,426
17					436	16,862	16,426
18					436	16,862	16,426
19					436	· · ·	16,426
20					436		16,426
21		1			436		16,426
22					436	16,862	16,426
23					.436	16,862	16,426
24		}			436	16,862	16,426
25					436	16,862	16,426
26	and the second second				436	16,862	16,426
27					436	16,862	16,426
28					436	16,862	16,426
29					436	16,862	16,426
30					436	16,862	16,426
<u> </u>							EIRR
							43.2%



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