

A P P E N D I X - Q

Q - 1 Exchange Rates

Exchange Rates

1. Yen and US\$ in Average Value per Month

		(Buying)	(Selling)
1983	May	233.78 Yen/\$	235.78 Yen/\$
	June	239.20	241.20
	July	239.47	241.47
	August	243.32	245.32
	September	241.84	243.84
	October	231.98	233.98
	November	234.28	236.28
	Sep. - Nov. 1/3	<u>236.03</u>	<u>239.03</u>
	Jun. - Nov. 1/6	<u>238.35</u>	<u>240.35</u>

Source: Bank of Tokyo

2. L.E. and US\$

2-1. End of 1982

		<u>L.E. per US\$</u>	
		(Buying)	(Selling)
	Official rate	0.7000	0.707
	Privilege rate	0.8316832	0.840

Source: JETRO, May, 1983

2-2. SDR and US\$ per Pound

	<u>SDR</u>	<u>US\$</u>
March	1.3244	1.4286
April	1.3208	1.4286
May	1.3260	1.4286
June	1.3372	1.4286
July	1.3533	1.4286
August	1.3676	1.4286
September	1.3517	1.4286
October	1.3486	1.4286

Note: Market rate is the Central Bank buying rate.
SDR; Special Drawing Right.

Source: International Financial Statistics, Dec. 1983.
International Monetary Fund.

- 2-3. Report of the Lake - Manzala - South Hussinia Agricultural Project
Identification Mission.
FAO/World Bank Cooperative Programme, July, 1983.

US\$ 1.00 = LE 0.82 as of May 1983
(LE 1.00 = US\$ 1.2195)

- 2-4. Bank MISR rate exchanged by F/S survey team.

		<u>US\$/LE</u>
1983	Oct. 13	0.819
	" 20	0.818
	" 30	0.816
	Nov. 7	0.818
	" 10	0.818
	" 14	0.823
	" 20	0.819
	" 29	0.818
	<u>Average</u>	<u>0.819</u>

- 2-5. Staff Appraisal Report, ARG, New Land Development Project
(West Nubrariya) Oct. 1980, World Bank.

US\$ 1.00 = LE 0.70 as of Jan. 1980
(LE 1.00 = US\$ 1.4286)

Q - 2 Calculation of Import Duties and Taxes

***** CALCULATION OF IMPORT DUTIES AND TAXES *****

YEAR: 1978

SECTION	IMPORT AMOUNT	IMPORT DUTY	STATISTICAL TAX	C.E.B. TAX	MARINE TAX	MUNICIPALITY TAX	TOTAL
1	95175.	13291.	952.	85.	476.	444.	15248.
2	366575.	56040.	1970.	19614.	1833.	2384.	81841.
3	69240.	5904.	692.	913.	346.	236.	8091.
4	155405.	55962.	1554.	8112.	777.	1992.	66397.
5	96737.	20105.	967.	3466.	464.	751.	25772.
6	210962.	27409.	2110.	11232.	1055.	1254.	43060.
7	87454.	20925.	875.	6184.	437.	853.	29273.
8	4044.	961.	40.	75.	20.	33.	1149.
9	114697.	19333.	1147.	6629.	573.	830.	28512.
10	63921.	14620.	639.	3661.	320.	583.	20023.
11	62484.	34940.	625.	4994.	312.	1226.	42098.
12	1487.	601.	15.	149.	7.	29.	1001.
13	39614.	35108.	396.	3901.	198.	1188.	40792.
14	7521.	1900.	75.	720.	36.	82.	2815.
15	235339.	61257.	2353.	21074.	1177.	2576.	88436.
16	575436.	148071.	5754.	39538.	2877.	5887.	202127.
17	389832.	255601.	3898.	18037.	1949.	6385.	287870.
18	41114.	7315.	411.	3797.	206.	352.	12081.
19	1181.	396.	12.	118.	6.	16.	548.
20	13966.	6603.	140.	1255.	70.	302.	10370.
21	5.	1.	0.	0.	0.	0.	1.
TOTAL	2632191.	788760.	24626.	153555.	13161.	29403.	1009505.

NOTE: C.E.B. TAX = CONSOLIDATION OF ECONOMIC DEVELOPMENT TAX

***** CALCULATION OF IMPORT DUTIES AND TAXES *****		*****		*****		*****		*****		*****		*****		*****		*****	
SECTION	IMPORT AMOUNT	IMPORT DUTY	STATISTICAL TAX	C.E.B. TAX	MARINE TAX	MUNICIPALITY TAX	TOTAL	SECTION	IMPORT AMOUNT	IMPORT DUTY	STATISTICAL TAX	C.E.B. TAX	MARINE TAX	MUNICIPALITY TAX	TOTAL	SECTION	IMPORT AMOUNT
1	109721.	15866.	1097.	129.	549.	530.	18190.	2	360436.	55775.	1861.	19717.	1802.	2375.	81526.	3	94693.
3	143197.	12454.	947.	1972.	473.	475.	16322.	4	45586.	432.	8371.	716.	1623.	55728.	5	129872.	
5	195780.	26042.	1299.	2053.	649.	1137.	39027.	6	81251.	1958.	9663.	979.	1159.	39800.	7	3335.	
8	104276.	17664.	1043.	6077.	521.	765.	26270.	9	55744.	13246.	557.	3383.	279.	524.	17991.	10	77295.
11	2202.	1176.	22.	220.	11.	43.	1472.	12	32753.	20320.	328.	2667.	164.	710.	24388.	13	2033.
14	322442.	70760.	3224.	29913.	1612.	3165.	108675.	15	548346.	126766.	5483.	36200.	2742.	5136.	176327.	16	354711.
17	47539.	8775.	475.	4360.	238.	415.	14264.	18	840.	248.	8.	84.	4.	10.	355.	19	19739.
20	4.	0.	0.	0.	0.	0.	1.	21	2686213.	741037.	25119.	154243.	13431.	28015.	961844.	TOTAL	

NOTE: C. E. B. TAX = CONSOLIDATION OF ECONOMIC DEVELOPMENT TAX

***** CALCULATION OF IMPORT DUTIES AND TAXES *****

YEAR: 1980

SECTION	IMPORT AMOUNT	IMPORT DUTY	STATISTICAL TAX	C.E.B. TAX	MARINE TAX	MUNICIPALITY TAX	TOTAL
1	210194.	27049.	2102.	111.	1051.	909.	31222.
2	545117.	54297.	2362.	27910.	2726.	2619.	89913.
3	152606.	32813.	1526.	7280.	763.	1271.	43653.
4	200623.	68096.	2006.	7283.	1007.	2952.	101339.
5	155943.	37812.	1559.	3609.	780.	1313.	45072.
6	260946.	36128.	2609.	14067.	1305.	1623.	55732.
7	113884.	27408.	1139.	7500.	569.	1099.	37715.
8	2170.	949.	22.	127.	11.	33.	1142.
9	201837.	35373.	2018.	12135.	1009.	1516.	52051.
10	88811.	21425.	886.	5300.	443.	842.	28897.
11	56494.	28929.	565.	4693.	282.	1034.	35504.
12	2039.	984.	20.	204.	10.	37.	1255.
13	36876.	20981.	369.	3532.	184.	752.	25816.
14	1807.	465.	18.	120.	9.	18.	630.
15	390742.	71501.	3907.	36083.	1954.	3403.	116848.
16	575813.	133744.	5758.	37389.	2879.	5393.	185164.
17	346889.	246513.	3469.	16540.	1734.	8048.	276304.
18	39917.	6650.	399.	3688.	200.	328.	11265.
19	933.	315.	9.	93.	5.	13.	435.
20	18558.	11722.	186.	1593.	93.	488.	14001.
21	1.	0.	0.	0.	0.	0.	0.
TOTAL	3402000.	663153.	30931.	189256.	17010.	33610.	1153956.

NOTE: C.E.B. TAX = CONSOLIDATION OF ECONOMIC DEVELOPMENT TAX

***** CALCULATION OF IMPORT DUTIES AND TAXES *****
YEAR: 1981

SECTION	IMPORT AMOUNT	IMPORT DUTY	STATISTICAL TAX	C.E.B. TAX	MARINE TAX	MUNICIPALITY TAX	TOTAL
1	417530.	48573.	4175.	243.	2088.	1652.	56732.
2	1145995.	126647.	6148.	56764.	5730.	5919.	203207.
3	198034.	53058.	1980.	11334.	990.	2021.	69383.
4	363391.	179034.	3634.	9121.	1817.	5832.	200238.
5	382623.	66925.	3826.	11851.	1913.	3135.	107650.
6	472067.	70925.	4721.	23374.	2360.	3041.	104422.
7	185974.	44251.	1860.	13169.	930.	1806.	62015.
8	9639.	3269.	96.	225.	48.	109.	3748.
9	280337.	47089.	2803.	16139.	1402.	2023.	69456.
10	151506.	36913.	1515.	8914.	758.	1443.	49543.
11	121713.	80254.	1217.	10342.	609.	2773.	95194.
12	2671.	1379.	27.	267.	13.	51.	1736.
13	102767.	58825.	1028.	9253.	514.	2088.	71888.
14	2367.	855.	24.	201.	12.	33.	1124.
15	498713.	117201.	4989.	46399.	2495.	5133.	176216.
16	977552.	238825.	9775.	66730.	4888.	9607.	329824.
17	757903.	461698.	7579.	32908.	3790.	15179.	521154.
18	79680.	14848.	797.	7449.	398.	705.	24196.
19	1770.	585.	18.	177.	9.	23.	792.
20	35040.	22593.	350.	3036.	175.	785.	26939.
21	5.	1.	0.	1.	0.	0.	1.
TOTAL	6187497.	1696524.	56563.	327875.	30937.	63357.	2175256.

NOTE: C.E.B. TAX = CONSOLIDATION OF ECONOMIC DEVELOPMENT TAX

Q - 3 Price Structure of Paddy

Price Structure of Paddy

— 1983 Constant Price —

<u>Cost item</u>	<u>1995 (Economic)</u>
1. 1995 Export Price	
Thai 5% broken rice, fob. Bangkok us\$	447 <u>1/</u>
2. Export price, fob. Port Said	
gradedifferential: less 10%	405
3. L.E. equivalent (us\$1.00=L.E.0.82)	335
4. Processing and transport: <u>2/</u>	
	10
transport ex-mill /ton rice	10
milling cost /ton rice	34
Cooperating marketing cost /1.58 tons paddy	1
Subtotal marketing Costs /ton rice	55
5. Farmgate price of 1.58 tons paddy	280
6. Farm gate price of ton paddy	182

Source: 1/ Table A of Appendix Q-2

2/ Agricultural Price Management in Egypt.

World Bank Staff Working Paper

No. 388, April, 1980, Table 17

Sugar beet

1. Export Price, f.o.b. and stowed main Caribbean Ports	US\$398.00/ton
2. Freight and Insurance	US\$30.00/ton
3. Border Price, c.i.f. Port Said LE equivalent (US\$1.00=LE0.82)	US\$428.00/ton LE351.00/ton
4. Port Handling	LE5.00/ton
5. Refining Margin	LE48.00/ton
6. Haulage from Project Area	LE4.00/ton
7. Value of White Sugar, ex-factory	LE400.00/ton
8. Processing Costs and Margin	LE276.00/ton LE124.00/ton
9. Value of 1 ton Sugar beet ²	LE17.36
Value of Dried Molassed Pulp, 20kg @100/ton	LE2.00
Value of Dried Unmolassed Pulp, 50kg @150/ton	LE7.50
Value of Molasses, 55kg @150/ton	LE8.25
10. Value of Sugar beet delivered to factory	LE35.00

Note : 1 Quarterly Review of Commodity Markets and Half-Yearly
Revision of Commodity Price Forecast, Dec., 1982,
World Bank

2 14% white sugar content of beet

Beef

1. 1995 Export Price ¹ US Imported Frozen Boneless f.o.b., port of entry	US\$2,782/ton
2. Freight and Insurance	US\$150/ton
3. Border Price, c.i.f. Port Said LE equivalent (US\$1.00=LE0.82)	US\$2,932/ton LE2,404/ton
4. Port Handling and Transport Cost from Port Said to Project Center	LE32/ton
5. Wholesale Price, Project Center	LE2,436/ton
6. Average Cost of Transportation from Farm Gate to Wholesale Market	LE16/ton
7. Farm Gate Price	LE2,420/ton

Note : 1 Quarterly Review of Commodity Markets and Half-Yearly
Revision of Commodity Price Forecast, Dec., 1982,
World Bank

Price Structure for Tomatoes

<u>Cost Item</u>	1982	
	<u>Financial</u>	<u>Economic</u>
1. F.O.B., Cairo Airport		
(us \$ / ton)	520	520
(L.E. / ton)	426	426
2. Profit; Nile Company (5%)	25	20
3. Overheads, Management fees	21	17
4. Handling cost, airport	16	21
5. Transport	25	34
6. Packing, packing materials	23	18
7. Collection, grading	10	8
8. Price of selected tomatoes, South Hussinia	306	308
9. Wastage, losses, not acceptable 30%	122	125
10. Farm gate price for delivered tomatoes (export)	184	185

Note : Based on Fayoum Agricultural Development Project
Feasibility Study, Oct. 1982, Agrar-Und
Hydrotechnik GMBH.

Cotton (Raw)

1. 1995 Import Price, Mexican SM1-1/16" ¹ c.i.f., North Europe	US\$2,300/ton
2. Freight and Insurance	US\$20/ton
3. Border Price, f.o.b. Port Said	US\$2,280/ton
Converted Price of Raw Cotton	US\$821/ton
LE equivalent (US\$1.00=LE0.82)	LE673/ton
4. Port Handling and Transport Cost from Project Center to Port Said	LE12/ton
5. Value at Cooperative Store	LE661/ton
6. Average Cost of Transportation from Farm Gate to Cooperative Store	LE4/ton
7. Farm Gate Price	LE657/ton

Note : 1 Quarterly Review of Commodity Markets and Half-Yearly
Revision of Commodity Price Forecast, Dec., 1982,
World Bank

Maize

1. 1995 Export Price, U.S. No.2 Yellow ¹ f.o.b., Gulf Ports	US\$152.00/ton
2. Freight and Insurance	US\$30.00/ton
3. Border Price, c.i.f., Port Said LE equivalent (US\$1.00=LE0.82)	US\$182.00/ton LE149.00/ton
4. Port Handling and Transport Cost from Port Said to Project Center	LE12.00/ton
5. Wholesale Price, Project Center	LE161.00/ton
6. Average Cost of Transportation from Farm Gate to Wholesale Market	LE1.00/ton
7. Farm Gate Price	LE160.00/ton

Note : 1 Quarterly Review of Commodity Markets and Half-Yearly
Revision of Commodity Price Forecast, Dec., 1982,
World Bank

Wheat

1. 1995 Export Price, Canadian No. 1 ¹ f.o.b., Thunder Bay	US\$203.00/ton
2. Freight and Insurance	US\$30.00/ton
3. Border Price c.i.f., Port Said LE equivalent (US\$1.00=LE0.82)	US\$233.00/ton LE191.00/ton
4. Port Handling and Transport Cost from Port Said to Project Center	LE12.00/ton
5. Wholesale Price, Project Center	LE203.00/ton
6. Average Cost of Transportation from Farm Gate to Wholesale Market	LE1.00/ton
7. Farm Gate Price	LE202.00/ton

Note : 1 Quarterly Review of Commodity Markets and Half-Yearly
Revision of Commodity Price Forecast, Dec., 1982,
World Bank

Financial and Economic Price Structure for Urea
(N-45) - 1983 Constant Price

Cost Item	1990		1995	
	Fin.	Econ.	Fin.	Econ.
1. Exported Price, F.O.B. Europe (US\$/ton)	283	285	294	294
2. Ocean Freight (US\$/ton)	+35	+35	+36	+36
3. Import Price, C.I.F.				
Alexandria (US\$/ton)	318	318	330	330
(LC/ton)	260	260	270	270
4. Port Handling, Storage and Processing	+15	+20	+15	+20
5. Ex-godown Price	275	280	285	290
6. Transport Cost from Port to Zagazig Storage	+20	+27	+20	+27
7. Transport Cost from Storage to Farm	+ 7	+ 9	+ 7	+ 9
8. Farm Gate Price per ton	<u>302</u>	<u>316</u>	<u>312</u>	<u>326</u>

Note: Fin. : Financial
Econ.: Economic
See Table B of Appendix Q-2

Financial and Economic Price Structure for TSP
- 1983 Constant Price

Cost Item	1990, 1995	
	Financial	Economic
1. Export Price, F.O.B. US. Gulf (US\$/ton)	200	208
2. Ocean Freight (US\$/ton)	+40	+40
3. Import Price, C.I.F. Alexandria (US\$/ton)	248	248
4. Port Handling, Storage and Processing	+15	+20
5. Ex-godown Price	263	268
6. Transport Cost from Port to Zagazig Storage	+20	+27
7. Transport Cost from Storage Farm	+ 7	+ 9
8. Farm Gate Price per ton	<u>290</u>	<u>304</u>

Note: See Table B of Appendix Q-2

Table A Projection of FOB Rice Price, Thai 5% Broken

(Unit: \$/Ton)

Year	1981		1982		1983	
	<u>1/</u> Current \$	<u>2/</u> Constant \$	<u>3/</u> Constant \$	<u>4/</u> Constant \$	<u>3/</u> Constant \$	<u>4/</u> Constant \$
1979	331	342				
1980	434	413				
1981	483	483				
1982	229	298	229			
1983	327	306	307		327	
1985	394	350	351		374	
1990	719	425	426		454	
2005	939	418	419		447	

Note: 1/ and 2/ are based on the Quarterly Review of Commodity Markets and Half-Yearly Revision of Commodity Price Forecasts, Dec. 21, 1982, World Bank. 3/ and 4/ are estimated by Consultants.

Table B Projection of Fertilizer (FOB Price)

(Unit: US\$/ton)

	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1985</u>	<u>1990</u>	<u>1995</u>
<u>Urea</u> 45%						
Current	216	160	200	267	445	616
1981 Constant	216	159	187	213	265	275
1982 "	-	160	188	214	267	277
1983 "	-	-	200	228	283	294
<u>T S P</u> 46%						
Current	161	160	172	218	327	439
1981 Constant	161	139	161	174	195	195
1982 "	-	160	185	200	224	224
1983 "	-	-	172	185	208	208
<u>Potash</u> 60%						
Current	112	81	100	129	183	247
1981 Constant	112	80	94	103	110	110
1982 "	-	81	95	104	113	113
1983 "	-	-	100	110	117	117

- Note: 1. Urea is FOB Europe, bagged.
2. TSP is FOB US. Gulf.
3. Muriate of Potash in FOB Vancouver.

Source : Quarterly Review of Commodity Markets and
Half-Yearly Revision of Commodity Price
Forecasts, World Bank, Dec. 1982.

Q - 4 Cropped Area

Cropped Area

(Unit : Feddan)

BLOCK	SOIL TYPE	Project Year											
		8	9	10	11	12	13	14	15				
NH-1	Clay	-	10,668	10,668	10,668	11,509	11,509	11,509	11,509	11,509	11,509	11,509	11,509
-2	"	-	-	11,465	11,465	11,465	12,369	12,369	12,369	12,369	12,369	12,369	12,369
-3	"	-	-	-	12,673	12,673	12,673	12,673	12,673	12,673	12,673	12,673	12,673
-4	"	-	-	-	-	3,250	3,250	3,250	3,250	3,250	3,250	3,250	3,506
-4	Loamy	-	-	-	-	7,460	7,460	7,460	7,460	7,460	7,460	7,460	8,048
-5	Clay	-	-	-	-	4,371	4,371	4,371	4,371	4,371	4,371	4,371	4,716
<u>Sub-total</u>		-	<u>10,668</u>	<u>22,133</u>	<u>34,806</u>	<u>50,728</u>	<u>51,632</u>	<u>52,631</u>	<u>53,820</u>				
SP-1	Clay	8,325	8,325	8,325	8,981	8,981	8,981	8,981	8,981	8,981	8,981	8,981	8,981
-2	"	-	-	9,875	9,875	9,875	10,653	10,653	10,653	10,653	10,653	10,653	10,653
-3	Loamy	5,473	5,473	5,473	5,905	5,905	5,905	5,905	5,905	5,905	5,905	5,905	5,905
-4	"	-	-	5,970	5,970	5,970	6,441	6,441	6,441	6,441	6,441	6,441	6,441
<u>Sub-total</u>		<u>13,798</u>	<u>13,798</u>	<u>29,643</u>	<u>30,731</u>	<u>30,731</u>	<u>31,980</u>	<u>31,980</u>	<u>31,980</u>	<u>31,980</u>	<u>31,980</u>	<u>31,980</u>	<u>31,980</u>
<u>Total</u>		<u>13,798</u>	<u>24,466</u>	<u>51,776</u>	<u>65,537</u>	<u>81,459</u>	<u>83,612</u>	<u>84,611</u>	<u>85,800</u>				

Q - 5 Unit Price of Farm Machines

Unit Price of Farm Machines

	<u>Cif. Alexandria</u> <u>(LE)</u>	<u>Transportation</u> <u>Cost from Alex.</u> <u>to Project Area</u> <u>(LE)</u>	<u>Value at</u> <u>Project Area</u> <u>(LE)</u>
Tractor 90 P.S.	20,500	80	20,580
" 40 P.S.	6,560	80	6,640
Chisel Plow	980	10	990
Disk Harrow	1,310	10	1,320
Puddler	2,460	15	2,475
Transplanter	4,870	70	4,940
Combine	28,700	200	28,900
Planter	3,110	20	3,130
Cultivator	770	5	775
Ridger	1,480	10	1,490
Sprayer (Power)	2,300	15	2,315
Subsoiler	1,260	10	1,270
Bean Harvester	9,510	150	9,660
Beet Harvester	910	5	915
Broadcaster	1,230	10	1,240
Trailer	3,120	15	3,135

Fixed Cost of Farm Machines

	<u>Purchase Price</u> (LE)	<u>Annual Depreciation</u> (LE)	<u>Annual Repair Cost</u> (LE)	<u>Annual Fixed Cost Per set</u> (LE)
Tractor 90 P.S.	20,580	3,700	2,400	6,100
40 P.S.	6,640	1,200	780	1,980
Chisel Plow	990	90	40	130
Disk Harrow	1,320	120	40	160
Puddler	2,475	220	70	290
Transplanter	4,940	640	400	1,040
Combine	28,900	5,200	2,890	8,090
Planter	3,130	470	300	770
Cultivator	775	70	40	110
Ridger	1,490	130	50	180
Sprayer (Power)	2,315	260	120	380
Subsoiler	1,270	110	40	150
Bean Harvester	9,660	1,740	480	2,220
Beet Harvester	915	160	90	250
Broadcaster	1,240	110	60	170
Trailer	3,135	700	190	890

Fixed Cost of Farm Machines - Economic

	<u>Purchase Price</u> (LE)	<u>Annual Depreciation</u> (LE)	<u>Annual Repair Cost</u> (LE)	<u>Annual Fixed Cost Per set</u> (LE)
Tractor 90 P.S. 40 P.S.	23,850 7,695	4,290 1,390	2,780 900	7,070 2,290
Chisel Plow	1,150	105	45	150
Disk Harrow	1,530	140	45	185
Puddler	2,870	255	80	335
Transplanter	5,725	740	460	1,200
Combine	33,495	6,025	3,350	9,375
Planter	3,630	545	350	895
Cultivator	900	80	45	125
Ridger	1,725	150	60	210
Sprayer (Power)	2,685	300	140	440
Subsoiler	1,470	130	45	175
Bean-harvester	11,195	2,015	555	2,570
Beet-harvester	1,060	185	105	290
Broadcaster	1,440	130	70	200
Trailer	3,635	810	220	1,030

Note: Purchase Price = Financial x 1.159 (conversion factor of agricultural machinery)

Fixed Cost and Wage of Operator by Crops - Financial

Farm Machines	Fixed Cost Per Set (LE)	Rice		Soybean		Sugarbeet		Tomato		Onion	
		No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)
Tractor 90 P.S.	6,100		236		236		236		172		164
40 P.S.	1,980										
Chisel Plow	130	19	2	21	3	20	3	4	1	22	3
Disk Harrow	160	20	3	22	4	20	3	4	1	22	4
Puddler	290	29	8								
Transplanter	1,040	76	79								
Combine	8,090	24	194								
Planter	770			35	27	33	26				
Sprayer (Power)	380					13	5				
Subsoiler	150	13	2	14	2	14	2	3	1	14	2
Bean-harvester	2,220			16	36						
Beet-harvester	250					72	18				
Broadcaster	170	6	1			40	36				
Tractor	890										
Total			<u>528</u>		<u>308</u>		<u>329</u>		<u>175</u>		<u>173</u>
Cropped Area (feddan)			18,580		18,580		18,580		13,580		13,000
Fixed Cost per feddan (LE)			<u>28</u>		<u>17</u>		<u>18</u>		<u>13</u>		<u>13</u>
Fixed Cost include unknown factor (x 1.2 LE)			34		20		22		16		16
Wage of Operator (LE)			8		8		8		8		8
Total Cost per feddan (LE)			42		30		30		24		24

Fixed Cost and Wage of Operator by Crops - Economic

Farm Machines	Fixed Cost Per Set (LE)	Rice		Soybean		Sugarbeet		Tomato		Onion	
		No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)	No. of Machine	Fixed Cost ('000LE)
Tractor 90 P.S. 40 P.S.	7,070 2,290		274		274		274		200		190
Chisel Plow	150	19	3	21	3	20	3	4	1	22	3
Disk Harrow	185	20	4	22	4	20	4	4	1	22	4
Puddler	335	29	10								
Transplanter	1,200	76	91								
Combine	9,375	24	225								
Planter	895			35	27	33	26				
Sprayer (Power)	440			13	2	13	5				
Subsoiler	175			14	2	14	2	3	1	14	2
Bean-harvester	2,570			17	36						
Beet-harvester	290					72	21				
Broadcaster	200	6				40	41				
Tractor	1,030										
<u>Total</u>			<u>609</u>		<u>346</u>		<u>376</u>		<u>203</u>		<u>199</u>
Cropped Area (feddan)			18,580		18,580		18,580		13,580		13,000
Fixed Cost per feddan (LE)			<u>33</u>		<u>19</u>		<u>20</u>		<u>15</u>		<u>15</u>
Fixed Cost include unknown factor (x 1.2 LE)			40		23		24		18		18
Wage of Operator (LE)			4		4		4		4		4
Total Cost per feddan (LE)			44		27		28		22		22

Q - 6 Profitability of Friesion (Economic)

(milding and Fattening)

Profitability of Friesian (Economic)
(Milking and Fattening)

(Per Feeding Unit)

G.P.V.

	<u>Unit</u>	<u>Production</u>	<u>Unit Price</u> (LE)	<u>G.P.V.</u> (LE)
Milk	kg	3,825	0,29	1,109
Boned Meat	kg	273	2,40	655
Heifer	head	0,32	225	72
Manure	ton	15	15	45
<u>Total</u>	-	-	-	<u>1,881</u>

Production Cost

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u> (LE)	<u>Cost</u> (LE)
Berseem	ton	20.3	14	284.2
Rice straw	"	2.1	28	58.8
Berseem hay	"	1.0	88	88.0
Sorghum	"	8.4	23	193.2
Concentrate	"	2.8	72	201.6
Labor	Man-day	91.25	2.5	228.1
Medicine	-	L.S.	-	8.0
Miscellaneous	-	L.S.	-	108.1
<u>Total</u>	-	-	-	<u>1,170</u>

N.P.V.

711

Profitability of Baladi (Economic)

(Per Feeding Unit)

G.P.V.

	<u>Unit</u>	<u>Production</u>	<u>Unit Price</u> (LE)	<u>G.P.V.</u> (LE)
Milk	kg	900	0.29	261
Boned Meat	kg	79	2.40	190
Heifer	head	0.3	250	75
Manure	ton	10	3.00	30
<u>Total</u>	-	-	-	<u>556</u>

Production Cost

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u> (LE)	<u>Cost</u> (LE)
Berseem	ton	7.7	14	107.8
Rice straw	"	1.3	28	36.4
Berseem hay	"	0.2	88	17.6
Sorghum	"	0.6	23	13.8
Concentrate	"	0.1	72	7.2
Labor	Man-day	36.5	2.5	91.3
Medicine	-	L.S.	-	3.0
Miscellaneous	-	L.S.	-	19.9
<u>Total</u>	-	-	-	<u>297</u>

N.P.V.

259

Profitability of Buffalo (Economic)

(Per Feeding Unit)

G.P.V.

	<u>Unit</u>	<u>Production</u>	<u>Unit Price</u> (LE)	<u>G.P.V.</u> (LE)
Milk	kg	660	0.40	264
Boned Meat	kg	94	2.40	226
Heifer	head	0.25	250	63
Manure	ton	10	3	30
<u>Total</u>	-	-	-	<u>583</u>

Production Cost

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u> (LE)	<u>Cost</u> (LE)
Berseem	ton	7.7	14	107.8
Rice straw	"	1.3	28	36.4
Berseem hay	"	0.2	88	17.6
Sorghum	"	0.6	23	13.8
Concentrate	"	0.1	72	7.2
Labor	Man-day	36.5	2.5	91.3
Medicine	-	L.S.	-	3.0
Miscellaneous	-	L.S.	-	19.9
<u>Total</u>	-	-	-	<u>297</u>

N.P.V.

286

Q - 7 Present Worth of Benefit

*** PRESENT WORTH OF BENEFIT ***

(UNIT: LE 1,000)

YEAR	B.STREAM	7.00 %	8.00 %	9.00 %	10.00 %	11.00 %	12.00 %	13.00 %	14.00 %	15.00 %	16.00 %
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	-5630	-4295	-4138	-3988	-3845	-3709	-3578	-3453	-3333	-3219	-3109
5	-2540	-1811	-1729	-1651	-1577	-1507	-1441	-1379	-1319	-1263	-1209
6	-1693	-1401	-1358	-1315	-1274	-1235	-1197	-1161	-1127	-1094	-1063
7	-2540	-1882	-1822	-1769	-1718	-1669	-1622	-1577	-1534	-1493	-1454
8	-2772	-2122	-2058	-1996	-1936	-1878	-1822	-1768	-1716	-1666	-1618
9	2475	1346	1258	1140	1050	986	933	884	839	796	754
10	6104	3103	2827	2578	2353	2150	1965	1798	1647	1509	1384
11	12282	5855	5268	4760	4305	3897	3531	3202	2906	2640	2400
12	18101	8037	7188	6436	5768	5174	4646	4176	3757	3383	3049
13	27276	11319	10029	8897	7904	7024	6251	5569	4966	4433	3961
14	34772	13485	11839	10406	9157	8067	7115	6283	5554	4914	4353
15	43212	15662	13622	11864	10345	9032	7895	6909	6054	5311	4664
16	49452	16745	14429	12451	10758	9308	8063	6995	6075	5283	4599
17	55829	17674	15089	12901	11046	9471	8131	6991	6018	5188	4478
18	60984	18043	15261	12928	10949	9320	7930	6758	5767	4928	4217
19	66419	18366	15390	12918	10860	9145	7712	6513	5509	4667	3959
20	71443	18463	15328	12748	10620	8861	7406	6200	5198	4365	3671
21	78329	18918	15361	12623	10585	8755	7250	6016	5000	4162	3470
22	73741	16645	13564	11075	9059	7524	6094	5012	4129	3407	2816
23	73741	15556	12559	10160	8235	6688	5441	4435	3622	2963	2428
24	73741	14538	11629	9321	7487	6025	4858	3925	3177	2576	2093
25	73741	13587	10768	8552	6806	5428	4338	3473	2787	2240	1804
26	73741	12698	9970	7846	6187	4890	3873	3074	2445	1948	1555
27	73741	11867	9232	7198	5625	4404	3458	2720	2144	1694	1341
28	73741	11091	8548	6604	5114	3969	3088	2407	1881	1473	1156
29	73741	10365	7915	6038	4649	3576	2757	2130	1650	1281	996
30	73741	9687	7328	5585	4226	3221	2461	1885	1447	1114	859
31	73741	9054	6785	5099	3842	2902	2198	1668	1270	968	740
32	73741	8461	6283	4678	3493	2614	1962	1476	1114	842	638
33	73741	7908	5817	4392	3175	2355	1752	1307	977	732	550
34	73741	7390	5387	3938	2896	2122	1564	1156	857	637	474
35	73741	6907	4988	3612	2654	1912	1397	1023	752	554	409
36	73741	6455	4618	3314	2386	1722	1247	906	659	482	353
37	73741	6033	4276	3040	2159	1552	1113	801	578	419	304
38	73741	5638	3959	2789	1972	1398	994	709	507	364	262
39	73741	5269	3666	2559	1792	1259	888	628	445	317	226
40	73741	4925	3394	2348	1629	1134	792	555	390	275	195
41	73741	4602	3143	2154	1481	1022	708	491	342	239	168
42	73741	4301	2910	1976	1347	921	632	435	300	208	145
43	73741	4020	2695	1813	1224	850	564	385	264	181	125
44	73741	3757	2495	1663	1113	747	504	341	231	157	108
45	73741	3511	2310	1526	1012	673	450	301	203	137	93
46	73741	3281	2139	1400	920	607	402	267	173	119	80
47	73741	3067	1981	1284	836	546	358	236	156	103	69
48	73741	2866	1834	1178	760	492	320	209	137	90	59
49	73741	2679	1698	1081	691	444	286	185	120	78	51
50	73741	2503	1572	992	628	400	255	164	105	68	44
TOTAL	2649625	374956	296355	236273	189862	153662	125168	102553	84457	69874	58044

*** PRESENT WORTH OF COST ***

(UNIT: LE 1,000)

YEAR	C-STREAM	7.00 %	8.00 %	9.00 %	10.00 %	11.00 %	12.00 %	13.00 %	14.00 %	15.00 %	16.00 %
1	1428.	1335.	1322.	1310.	1298.	1286.	1275.	1264.	1253.	1242.	1231.
2	777.	666.	654.	642.	631.	619.	619.	609.	598.	588.	577.
3	23166.	18390.	17888.	17405.	16939.	16489.	16055.	15636.	15232.	14841.	14461.
4	24625.	18786.	17445.	16819.	16221.	15650.	15103.	14580.	14079.	13600.	13143.
5	22439.	15999.	14584.	13933.	13316.	12733.	12179.	11654.	11156.	10684.	10234.
6	22114.	17134.	15333.	14515.	13748.	13028.	12351.	11715.	11117.	10554.	10024.
7	22137.	13786.	12110.	11360.	10663.	10014.	9410.	8847.	8322.	7833.	7373.
8	20132.	11717.	10877.	10104.	9392.	8736.	8131.	7573.	7058.	6581.	6141.
9	5342.	2772.	2552.	2350.	2167.	1999.	1845.	1704.	1575.	1457.	1341.
10	10564.	5370.	4462.	4073.	3721.	3401.	3112.	2850.	2611.	2395.	2200.
11	6836.	2932.	2649.	2396.	2169.	1965.	1782.	1618.	1469.	1336.	1214.
12	15119.	6004.	5375.	4817.	4322.	3881.	3488.	3138.	2826.	2547.	2297.
13	8037.	3335.	2622.	2328.	2070.	1842.	1641.	1465.	1306.	1167.	1045.
14	9245.	3585.	2767.	2435.	2145.	1892.	1670.	1477.	1307.	1157.	1024.
15	1926.	698.	607.	529.	461.	403.	352.	308.	270.	237.	208.
16	1926.	652.	562.	485.	419.	363.	314.	273.	237.	206.	179.
17	1926.	610.	521.	445.	381.	327.	281.	241.	208.	179.	154.
18	1926.	570.	482.	408.	346.	294.	250.	213.	182.	156.	133.
19	1926.	533.	446.	375.	315.	265.	224.	189.	160.	135.	115.
20	1926.	498.	413.	344.	286.	239.	200.	167.	140.	118.	99.
21	1926.	465.	383.	315.	260.	215.	178.	148.	123.	102.	85.
22	1926.	435.	354.	289.	237.	194.	159.	131.	108.	89.	74.
23	1926.	408.	328.	265.	215.	175.	142.	116.	95.	77.	63.
24	1926.	380.	304.	243.	196.	157.	127.	103.	83.	67.	55.
25	1926.	355.	281.	223.	178.	142.	113.	91.	73.	59.	47.
26	8029.	1383.	1086.	854.	674.	532.	422.	335.	266.	212.	169.
27	6645.	1069.	832.	649.	507.	397.	312.	245.	193.	153.	121.
28	14004.	2107.	1624.	1254.	971.	754.	586.	457.	357.	280.	220.
29	7532.	1059.	808.	619.	475.	365.	282.	218.	169.	131.	102.
30	8781.	1154.	873.	662.	503.	384.	293.	224.	172.	133.	102.
31	1926.	236.	177.	133.	100.	76.	57.	44.	33.	25.	19.
32	1926.	221.	164.	122.	91.	68.	51.	39.	29.	22.	17.
33	1926.	207.	152.	112.	83.	62.	46.	34.	26.	19.	14.
34	1926.	193.	141.	103.	75.	55.	41.	30.	22.	17.	12.
35	1926.	180.	130.	94.	69.	50.	36.	27.	20.	14.	11.
36	1926.	169.	121.	87.	62.	45.	33.	24.	17.	13.	9.
37	1926.	158.	112.	79.	57.	41.	29.	21.	15.	11.	8.
38	1926.	147.	103.	73.	51.	37.	26.	19.	13.	10.	7.
39	1926.	138.	96.	67.	47.	33.	23.	16.	12.	8.	6.
40	1926.	129.	89.	61.	43.	30.	21.	15.	10.	7.	5.
41	8029.	501.	342.	255.	161.	111.	77.	54.	37.	26.	18.
42	6645.	388.	262.	178.	121.	83.	57.	39.	27.	19.	13.
43	14006.	764.	512.	344.	233.	158.	107.	73.	50.	34.	24.
44	7532.	384.	255.	170.	114.	76.	51.	35.	24.	16.	11.
45	8781.	418.	275.	182.	120.	80.	54.	36.	24.	16.	11.
46	1926.	86.	56.	37.	24.	16.	10.	7.	5.	3.	2.
47	1926.	80.	52.	34.	22.	14.	9.	6.	4.	3.	2.
48	1926.	75.	48.	31.	20.	13.	8.	5.	4.	2.	2.
49	1926.	70.	44.	28.	18.	12.	7.	5.	3.	2.	1.
50	1926.	65.	41.	26.	16.	10.	7.	4.	3.	2.	1.
TOTAL	335823.	140590.	139525.	120008.	111714.	104605.	97902.	92070.	86801.	82013.	77639.

Q - 8 Profitability of Friesian (Financial)

Profitability of Friesian (Financial)

(Milking and Fattening)

(Per Feeding Unit)

Gross Income

	<u>Unit</u>	<u>Production</u>	<u>Unit Price</u> (LE)	<u>Gross Income</u> (LE)
Milk	kg	3,825	0.30	1,148
Boned Meat	kg	273	2.50	683
Heifer	head	0.32	225	72
Manure	ton	15	3	45
<u>Total</u>	-	-	-	<u>1,948</u>

Farm Cost

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u> (LE)	<u>Cost</u> (LE)
Berseem	ton	20.3	12	243.6
Rice straw	"	2.1	25	52.5
Berseem hay	"	1.0	80	80.0
Sorghum	"	8.4	20	168.0
Concentrate	"	2.8	40	112.0
Medicine	-	L.S.	-	8.0
Miscellaneous	-	L.S.	-	198.9
<u>Total</u>	-	-	-	<u>863</u>

Net Income1,085

Profitability of Baladi (Financial)

(Per Feeding Unit)

Gross Income

	<u>Unit</u>	<u>Production</u>	<u>Unit Price</u> (LE)	<u>Gross Income</u> (LE)
Milk	kg	900	0.30	270
Boned Meat	kg	79	2.50	198
Heifer	head	0.3	250	75
Manure	ton	10	3	30
<u>Total</u>	-	-	-	<u>573</u>

Farm Cost

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u> (LE)	<u>Cost</u> (LE)
Berseem	ton	7.7	12	92.4
Rice straw	"	1.3	25	32.5
Berseem hay	"	0.2	80	16.0
Sorghum	"	0.6	20	12.0
Concentrate	"	0.1	40	4.0
Medicine	-	L.S.	-	3.0
Miscellaneous	-	L.S.	-	16.1
<u>Total</u>	-	-	-	<u>176</u>

Net Income397

Profitability of buffalo (Financial)

(Per Feeding Unit)

Gross Income

	<u>Unit</u>	<u>Production</u>	<u>Unit Price</u> (LE)	<u>Gross Income</u> (LE)
Milk	kg	660	0.42	277
Boned Meat	kg	94	2.50	235
Heifer	head	0.25	250	63
Manure	ton	10	3	30
<u>Total</u>	-	-	-	<u>605</u>

Farm Cost

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u> (LE)	<u>Cost</u> (LE)
Berseem	ton	7.7	12	92.4
Rice straw	"	1.3	25	32.5
Berseem hay	"	0.2	80	16.0
Sorghum	"	0.6	20	12.0
Concentrate	"	0.1	40	4.0
Medicine	-	L.S.	-	3.0
Miscellaneous	-	L.S.	-	16.1
<u>Total</u>	-	-	-	<u>176</u>

Net Income

429

Q - 9 SE Production

Q-101

SE Production (Unit : kg)

Farm Size : 5 feddans

	Area (feddan)	Year after Primary Leaching							
		1	2	3	4	5	6	7	8
<u>Clayey Soil</u>									
Berseem	(4.54) 1.63	2,297	2,869	3,732	1,648	1,958	2,163	2,473	2,575
Sorghum	1.63	-	-	-	1,447	1,738	2,026	2,316	2,605
Rice Straw	(4.54) 1.63	495	985	1,280	637	813	885	991	1,061
Beet Pulp	1.63	-	-	-	657	738	822	944	1,027
Soybean Cake	1.63	-	-	-	526	701	877	965	1,051
<u>Total</u>	-	<u>2,792</u>	<u>3,854</u>	<u>5,012</u>	<u>4,915</u>	<u>5,948</u>	<u>6,773</u>	<u>7,689</u>	<u>8,319</u>
<u>Loamy Soil</u>									
Berseem	(4.54) 1.63	2,297	2,869	3,732	1,751	2,060	2,266	2,473	2,575
Sorghum	0.82	-	-	-	946	1,165	1,310	1,310	1,310
Rice Straw	(4.54) 1.63	495	985	1,380	672	849	919	991	1,061
Beet Pulp	1.63	-	-	-	657	738	822	944	1,027
Soybean Cake	1.63	-	-	-	613	789	965	1,051	1,051
<u>Total</u>	-	<u>2,792</u>	<u>3,854</u>	<u>5,112</u>	<u>4,639</u>	<u>5,601</u>	<u>6,282</u>	<u>6,769</u>	<u>7,024</u>

Figures in parentheses show cropped area before preparation of tile drain.

(Unit : kg)

SE Production

Farm Size : 15 feddans

	Area (feddan)	Year after Primary Leaching							
		1	2	3	4	5	6	7	8
<u>Clayey Soil</u>									
Berseem	(13.6) 4.9	6,882	8,595	11,179	4,954	5,885	6,502	7,433	7,742
Sorghum	4.9	-	-	-	4,351	5,223	6,091	6,963	7,830
Rice Straw	(13.6) 4.9	1,482	2,951	3,835	1,916	2,445	2,661	2,979	3,190
Beet Pulp	4.9	-	-	-	1,975	2,220	2,470	2,837	3,087
Soybean Cake	4.9	-	-	-	1,583	2,107	2,636	2,901	3,161
<u>Total</u>	-	<u>8,364</u>	<u>11,546</u>	<u>15,014</u>	<u>14,779</u>	<u>17,880</u>	<u>20,360</u>	<u>23,113</u>	<u>25,010</u>
<u>Loamy Soil</u>									
Berseem	(13.6) 4.9	6,882	8,595	11,179	5,263	6,194	6,811	7,433	7,742
Sorghum	2.45	-	-	-	2,827	3,481	3,915	3,915	3,915
Rice Straw	(13.6) 4.9	1,482	2,951	4,134	2,019	2,553	2,764	2,979	3,190
Beet Pulp	4.9	-	-	-	1,975	2,220	2,470	2,837	3,087
Soybean Cake	4.9	-	-	-	1,842	2,372	2,901	3,161	3,161
<u>Total</u>	-	<u>8,364</u>	<u>11,546</u>	<u>15,313</u>	<u>13,926</u>	<u>16,820</u>	<u>18,861</u>	<u>20,325</u>	<u>21,095</u>

Figures in parentheses show cropped area before preparation of tile drain.

(Unit : kg)

SE Production

Farm Size : 20 feddans

	Area (feddan)	Year after Primary Leaching							
		1	2	3	4	5	6	7	8
<u>Clayey Soil</u>									
Berseem	(18.17) 6.53	9,194	11,483	14,936	6,602	7,843	8,665	9,906	10,317
Sorghum	6.53	-	-	-	5,799	6,961	8,117	9,279	10,435
Rice Straw	(18.17) 6.53	1,981	3,943	5,124	2,553	3,258	3,546	3,970	4,251
Beet Pulp	6.53	-	-	-	2,632	2,958	3,291	3,781	4,114
Soybean Cake	6.53	-	-	-	2,109	2,808	3,513	3,866	4,212
<u>Total</u>	-	<u>11,175</u>	<u>15,426</u>	<u>20,060</u>	<u>19,695</u>	<u>23,868</u>	<u>27,132</u>	<u>30,802</u>	<u>33,329</u>
<u>Loamy Soil</u>									
Berseem	(18.17) 6.53	9,194	11,483	14,936	7,013	8,254	9,077	9,906	10,317
Sorghum	3.27	-	-	-	3,774	4,647	5,225	5,225	5,225
Rice Straw	(18.17) 6.53	1,981	3,943	5,524	2,690	3,402	3,683	3,970	4,251
Beet Pulp	6.53	-	-	-	2,632	2,958	3,291	3,781	4,114
Soybean Cake	6.53	-	-	-	2,455	3,161	3,866	4,212	4,212
<u>Total</u>	-	<u>11,175</u>	<u>15,426</u>	<u>20,460</u>	<u>18,464</u>	<u>22,422</u>	<u>25,142</u>	<u>27,094</u>	<u>28,119</u>

Figures in parentheses show cropped area before preparation of tile drain.

Q - 10 Gross Income of Crop Cultivation

Gross Income of Crop Cultivation (Financial)

(Unit : LE)

Farm Size : 5 feddans

Cropped Area (feddan)	Year after Primary Leaching								
	1	2	3	4	5	6	7	8	
<u>Clayey Soil</u>									
Rice	1.63(4.54)	241	477	622	308	394	429	479	513
Soybean	1.63	-	-	-	225	300	375	412	450
Sugarbeet	1.63	-	-	-	782	880	978	1,125	1,223
Tomato (W)	1.63	-	-	-	913	1,027	1,255	1,540	1,712
<u>Total</u>	-	<u>241</u>	<u>477</u>	<u>622</u>	<u>2,228</u>	<u>2,601</u>	<u>3,037</u>	<u>3,556</u>	<u>3,898</u>
<u>Loamy Soil</u>									
Rice	1.63(4.54)	241	477	667	326	411	445	479	513
Soybean	1.63	-	-	-	262	337	412	450	450
Tomato (S)	0.82	-	-	-	517	631	775	861	861
Sugarbeet	1.63	-	-	-	782	880	978	1,125	1,223
Tomato (W)	1.63	-	-	-	1,027	1,255	1,712	1,712	1,712
<u>Total</u>	-	<u>241</u>	<u>477</u>	<u>667</u>	<u>2,914</u>	<u>3,514</u>	<u>4,322</u>	<u>4,627</u>	<u>4,759</u>

Note : Figures in parentheses show cropped area before preparation of tittle drain.

(W) : Winter cropping, (S) : Summer cropping

Gross Income of Crop Cultivation (Financial)

(Unit : LE)

Farm Size : 15 feddans

Cropped Area (feddan)	Year after Primary Leaching								
	1	2	3	4	5	6	7	8	
<u>Clayey Soil</u>									
Rice	4.9(13.6)	721	1,428	1,863	926	1,186	1,289	1,441	1,544
Soybean	4.9	-	-	-	676	902	1,127	1,240	1,352
Sugarbeet	4.9	-	-	2,352	2,646	2,940	2,940	3,381	3,675
Tomato (W)	4.9	-	-	2,744	3,087	3,773	3,773	4,631	5,145
<u>Total</u>	-	<u>721</u>	<u>1,428</u>	<u>1,863</u>	<u>6,698</u>	<u>7,821</u>	<u>9,129</u>	<u>10,693</u>	<u>11,716</u>
<u>Loamy Soil</u>									
Rice	4.9(13.6)	721	1,428	1,999	980	1,235	1,338	1,441	1,544
Soybean	4.9	-	-	-	789	1,014	1,240	1,352	1,352
Tomato (S)	2.45	-	-	-	1,544	1,887	2,315	2,573	2,573
Sugarbeet	4.9	-	-	-	2,352	2,646	2,940	3,381	3,675
Tomato (W)	4.9	-	-	-	3,087	3,773	5,145	5,145	5,145
<u>Total</u>	-	<u>721</u>	<u>1,428</u>	<u>1,999</u>	<u>8,752</u>	<u>10,555</u>	<u>12,978</u>	<u>13,892</u>	<u>14,289</u>

Note : Figures in parentheses show cropped area before preparation of title drain.

(W) : Winter cropping, (S) : Summer cropping

Gross Income of Crop Cultivation (Financial)

(Unit : LE)

Farm Size : 20 feddans

Cropped Area (feddan)	Year after Primary Leaching							
	1	2	3	4	5	6	7	8
<u>Clayey Soil</u>								
Rice	6.53(18.17)	1,908	2,489	1,234	1,580	1,717	1,920	2,057
Soybean	6.53	-	-	901	1,202	1,502	1,652	1,802
Sugarbeet	6.53	-	-	3,134	3,526	3,918	4,506	4,898
Tomato (W)	6.53	-	-	3,657	4,114	5,028	6,171	6,857
<u>Total</u>	-	<u>1,908</u>	<u>2,489</u>	<u>8,926</u>	<u>10,422</u>	<u>12,165</u>	<u>14,249</u>	<u>15,614</u>
<u>Loamy Soil</u>								
Rice	6.53(18.17)	1,908	2,671	1,306	1,646	1,783	1,920	2,057
Soybean	6.53	-	-	1,051	1,352	1,652	1,802	1,802
Tomato (S)	3.27	-	-	2,060	2,518	3,090	3,434	3,434
Sugarbeet	6.53	-	-	3,134	3,526	3,918	4,506	4,898
Tomato (W)	6.53	-	-	4,114	5,028	6,857	6,857	6,857
<u>Total</u>	-	<u>1,908</u>	<u>2,671</u>	<u>11,665</u>	<u>14,070</u>	<u>17,300</u>	<u>18,519</u>	<u>19,048</u>

Note : Figures in parentheses show cropped area before preparation of title drain.

(W) : Winter cropping, (S) : Summer cropping

Gross Income of Livestock Breeding (Financial)

(Unit : LE)

	Year after Primary Leaching							
	1	2	3	4	5	6	7	8
<u>5 feddans Farm</u>								
<u>Clayey Soil</u>								
-Friesian	974	2,727	3,506	3,506	4,286	4,870	5,454	5,844
-Baladi	458	1,261	1,604	1,604	1,891	2,177	2,464	2,693
-Baffalo	514	1,392	1,815	1,815	2,178	2,481	2,783	3,025
<u>Loamy Soil</u>								
-Friesian	974	2,727	3,312	3,312	3,896	4,480	4,870	5,065
-Baladi	485	1,261	1,490	1,490	1,776	2,006	2,177	2,235
-Baffalo	514	1,392	1,694	1,694	2,057	2,299	2,481	2,541
<u>15 feddans Farm</u>								
<u>Clayey Soil</u>								
-Friesian	2,922	8,182	10,519	10,519	12,662	14,415	16,363	17,727
-Baladi	1,347	3,725	4,756	4,756	5,730	6,532	7,449	8,079
-Baffalo	1,513	4,235	5,385	5,385	6,534	7,442	8,410	9,136
<u>Loamy Soil</u>								
-Friesian	2,922	8,182	9,935	9,935	11,883	13,441	14,415	15,000
-Baladi	1,347	3,725	4,469	4,469	5,386	6,074	6,532	6,819
-Baffalo	1,513	4,235	5,082	5,082	6,111	6,897	7,381	7,684
<u>20 feddans Farm</u>								
<u>Clayey Soil</u>								
-Friesian	3,993	10,909	14,026	14,026	16,948	19,285	21,818	23,571
-Baladi	1,805	4,985	6,360	6,360	7,678	8,710	9,913	10,715
-Baffalo	2,027	5,627	7,200	7,200	8,712	9,862	11,253	12,161
<u>Loamy Soil</u>								
-Friesian	3,993	10,909	13,052	13,052	15,974	17,727	19,285	19,870
-Baladi	1,805	4,985	5,959	5,959	7,220	8,079	8,710	9,053
-Baffalo	2,027	5,627	6,716	6,716	8,168	9,136	9,862	10,225

Q - 11 Farm Cost of Crop Cultivation (Financial)

Farm Cost of Crop Cultivation (Financial)

(Unit : LE)

Farm Size : 5 feddans

	Cropped Area (feddan)	Year after Primary Leaching							
		1	2	3	4	5	6	7	8
<u>Clayey Soil</u>									
Rice	1.63(4.54)	109	186	268	126	153	173	192	192
Soybean	1.63	-	-	-	93	109	124	140	155
Sugarbeet	1.63	-	-	-	178	207	238	267	297
Tomato (W)	1.63	-	-	-	212	246	282	316	352
<u>Total</u>	-	<u>109</u>	<u>186</u>	<u>268</u>	<u>609</u>	<u>715</u>	<u>817</u>	<u>915</u>	<u>996</u>
<u>Loamy Soil</u>									
Rice	1.63(4.54)	109	186	268	126	153	173	192	192
Soybean	1.63	-	-	-	93	116	140	155	155
Tomato (S)	0.82	-	-	-	107	133	159	177	177
Sugarbeet	1.63	-	-	-	178	207	267	267	297
Tomato (W)	1.63	-	-	-	212	246	352	352	352
<u>Total</u>	-	<u>109</u>	<u>186</u>	<u>268</u>	<u>716</u>	<u>855</u>	<u>1,091</u>	<u>1,143</u>	<u>1,173</u>

Note : Figures in parentheses show cropped area before preparation of title drain.

(W) : Winter cropping, (S) : Summer cropping

Farm Cost does not include labor cost.

Farm Cost of Crop Cultivation (Financial)

(Unit : LE)

Farm Size : 15 feddans

	Cropped Area (feddan)	Year after Primary Leaching							
		1	2	3	4	5	6	7	8
<u>Clayey Soil</u>									
Rice	4.9(13.6)	326	558	802	377	461	519	578	578
Soybean	4.9	-	-	-	279	328	372	421	466
Sugarbeet	4.9	-	-	-	534	622	715	804	892
Tomato (W)	4.9	-	-	-	637	740	848	951	1,058
<u>Total</u>	-	<u>326</u>	<u>558</u>	<u>802</u>	<u>1,827</u>	<u>2,151</u>	<u>2,454</u>	<u>2,754</u>	<u>2,994</u>
<u>Loamy Soil</u>									
Rice	4.9(13.6)	326	558	802	377	461	519	578	578
Soybean	4.9	-	-	-	279	348	421	466	466
Tomato (S)	2.45	-	-	-	319	397	475	529	529
Sugarbeet	4.9	-	-	-	534	622	715	804	892
Tomato (W)	4.9	-	-	-	637	740	1,058	1,058	1,058
<u>Total</u>	-	<u>326</u>	<u>558</u>	<u>802</u>	<u>2,146</u>	<u>2,568</u>	<u>3,188</u>	<u>3,435</u>	<u>3,523</u>

Note : Figures in parentheses show cropped area before preparation of title drain.

(W) : Winter cropping, (S) : Summer cropping

Farm Cost does not include labor cost.

Farm Cost of Crop Cultivation (Financial)

(Unit : LE)

Farm Size : 20 feddans

	Cropped Area (feddan)	Year after Primary Leaching								
		1	2	3	4	5	6	7	8	
<u>Clayey Soil</u>										
Rice	6.53(18.17)	436	745	1,072	503	614	692	771	771	771
Soybean	6.53	-	-	-	372	438	496	562	562	620
Sugarbeet	6.53	-	-	-	712	829	953	1,071	1,071	1,188
Tomato (W)	6.53	-	-	-	849	986	1,130	1,267	1,267	1,410
<u>Total</u>	-	<u>436</u>	<u>745</u>	<u>1,072</u>	<u>2,436</u>	<u>2,867</u>	<u>3,271</u>	<u>3,671</u>	<u>3,671</u>	<u>3,989</u>
<u>Loamy Soil</u>										
Rice	6.53(18.17)	436	745	1,072	503	614	692	771	771	771
Soybean	6.53	-	-	-	372	464	562	620	620	620
Tomato (S)	3.27	-	-	-	425	530	634	706	706	706
Sugarbeet	6.53	-	-	-	712	829	953	1,071	1,071	1,188
Tomato (W)	6.53	-	-	-	849	986	1,410	1,410	1,410	1,410
<u>Total</u>	-	<u>436</u>	<u>745</u>	<u>1,072</u>	<u>2,861</u>	<u>3,423</u>	<u>4,251</u>	<u>4,578</u>	<u>4,578</u>	<u>4,695</u>

Note : Figures in parentheses show cropped area before preparation of title drain.

(W) : Winter cropping, (S) : Summer cropping

Farm Cost does not include labor cost.

Farm Cost of Livestock Breeding (Financial)

(Unit : LE)

	Year after Primary Leaching							
	1	2	3	4	5	6	7	8
<u>5 feddans Farm</u>								
<u>Clayey Soil</u>								
-Friesian	432	1,208	1,553	1,553	1,899	2,158	2,416	2,589
-Baladi	141	387	493	493	581	669	757	827
-Baffalo	150	405	528	528	634	722	810	880
<u>Loamy Soil</u>								
-Friesian	432	1,208	1,467	1,467	1,726	1,985	2,158	2,244
-Baladi	141	387	458	458	546	616	669	686
-Baffalo	150	405	493	493	598	669	722	739
<u>15 feddans Farm</u>								
<u>Clayey Soil</u>								
-Friesian	1,295	3,625	4,660	4,660	5,610	6,386	7,249	7,853
-Baladi	414	1,144	1,461	1,461	1,760	2,006	2,288	2,482
-Baffalo	440	1,232	1,566	1,566	1,901	2,165	2,446	2,658
<u>Loamy Soil</u>								
-Friesian	1,295	3,625	4,401	4,401	5,264	5,955	6,386	6,645
-Baladi	414	1,144	1,373	1,373	1,654	1,866	2,006	2,094
-Baffalo	440	1,232	1,478	1,478	1,778	2,006	2,147	2,235
<u>20 feddans Farm</u>								
<u>Clayey Soil</u>								
-Friesian	1,769	4,833	6,214	6,214	7,508	8,544	9,666	10,442
-Baladi	554	1,531	1,954	1,954	2,358	2,675	3,045	3,291
-Baffalo	590	1,637	2,094	2,094	2,534	2,869	3,274	3,538
<u>Loamy Soil</u>								
-Friesian	1,769	4,833	5,782	5,782	7,077	7,853	8,544	8,803
-Baladi	554	1,531	1,830	1,830	2,218	2,482	2,675	2,781
-Baffalo	590	1,637	1,954	1,954	2,376	2,658	2,869	2,974

Q - 12 Calculation of Farm Income

Calculation of Farm Income

Farm Size : 5 feddan

Farm Type : Friesian

Cropping Pattern : No. 1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (Feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	1.63	321
Soybean	276	95	181	1.63	295
Sugarbeet	750	182	568	1.63	926
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	1.63	1,359
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	2,901

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	3.0	3,255
Baladi	573	176	397	-	-
Baffalo	605	176	429	-	-
Total	-	-	-	-	3,255

III. Cost of Hired Labor (LE)

0

IV. Total Net Farm Income (LE)

6,156

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 5 feddan

Farm Type : Friesian

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	1.63	321
Soybean	276	95	181	1.63	295
Sugarbeet	750	182	568	1.63	926
Vegetables(Summer)	1,050	216	834	0.82	684
Vegetables(Winter)	1,050	216	834	1.63	1,359
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	3,585

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	2.6	2,821
Baladi	573	176	397	-	-
Baffalo	605	176	429	-	-
Total	-	-	-	-	2,821

III. Cost of Hired Labor (LE)

29

IV. Total Net Farm Income (LE)

6,377

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 15 feddan

Farm Type : Friesian

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	4.9	965
Soybean	276	95	181	4.9	887
Sugarbeet	750	182	568	4.9	2,783
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	4.9	4,087
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	8,722

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	9.1	9,874
Baladi	573	176	397	-	-
Baffalo	605	176	429	-	-
Total	-	-	-	-	9,874

III. Cost of Hired Labor (LE)

3,498

IV. Total Net Farm Income (LE)

15,098

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 15 feddan

Farm Type : Friesian

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	4.9	965
Soybean	276	95	181	4.9	887
Sugarbeet	750	182	568	4.9	2,783
Vegetables(Summer)	1,050	216	834	2.45	2,043
Vegetables(Winter)	1,050	216	834	4.9	4,087
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	11,505

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	7.7	8,355
Baladi	573	176	397	-	-
Baffalo	605	176	429	-	-
Total	-	-	-	-	8,355

III. Cost of Hired Labor (LE) 3,858

IV. Total Net Farm Income (LE) 16,002

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 20 feddan

Farm Type : Friesian

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	6.53	1,286
Soybean	276	95	181	6.53	1,182
Sugarbeet	750	182	568	6.53	3,709
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	6.53	5,446
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	11,623

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	12.1	13,129
Baladi	573	176	397	-	-
Baffalo	605	176	429	-	-
Total	-	-	-	-	13,129

III. Cost of Hired Labor (LE) 5,656

IV. Total Net Farm Income (LE) 19,096

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 20 feddan

Farm Type : Friesean

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	6.53	1,286
Soybean	276	95	181	6.53	1,182
Sugarbeet	750	182	568	6.53	3,709
Vegetables(Summer)	1,050	216	834	3.27	2,727
Vegetables(Winter)	1,050	216	834	6.53	5,446
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	14,350

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	10.2	11,067
Baladi	573	176	397	-	-
Baffalo	605	176	429	-	-
Total	-	-	-	-	11,067

III. Cost of Hired Labor (LE)

6,073

IV. Total Net Farm Income (LE)

19,344

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 5 feddan

Farm Type : Baladi

Cropping Pattern : NO.L

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	1.63	321
Soybean	276	95	181	1.63	295
Sugarbeet	750	182	568	1.63	926
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	1.63	1,359
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	2,901

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	4.7	1,866
Baffalo	605	176	429	-	-
Total	-	-	-	-	1,866

III. Cost of Hired Labor (LE)

0

IV. Total Net Farm Income (LE)

4,767

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 5 feddan

Farm Type : Baladi

Cropping Pattern : No. 2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	1.63	321
Soybean	276	95	181	1.63	295
Sugarbeet	750	182	568	1.63	926
Vegetables(Summer)	1,050	216	834	0.82	684
Vegetables(Winter)	1,050	216	834	1.63	1,359
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	3,585

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	3.9	1,548
Baffalo	605	176	429	-	-
Total	-	-	-	-	1,548

III. Cost of Hired Labor (LE)

29

IV. Total Net Farm Income (LE)

5,104

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 15 feddan

Farm Type : Baladi

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	4.9	965
Soybean	276	95	181	4.9	887
Sugarbeet	750	182	568	4.9	2,783
Vegetables (Summer)	1,050	216	834	-	-
Vegetables (Winter)	1,050	216	834	4.9	4,087
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	8,722

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	14.1	5,598
Baffalo	605	176	429	-	-
Total	-	-	-	-	5,598

III. Cost of Hired Labor (LE)

1,837

IV. Total Net Farm Income (LE)

12,483

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 15 feddan

Farm Type : Baladi

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	4.9	965
Soybean	276	95	181	4.9	887
Sugarbeet	750	182	568	4.9	2,783
Vegetables(Summer)	1,050	216	834	2.45	2,043
Vegetables(Winter)	1,050	216	834	4.9	4,087
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	11,505

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	11.9	4,724
Baffalo	605	176	429	-	-
Total	-	-	-	-	4,724

III. Cost of Hired Labor (LE) 2,453

IV. Total Net Farm Income (LE) 13,776

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 20 feddan

Farm Type : Baladi

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	6.53	1,286
Soybean	276	95	181	6.53	1,182
Sugarbeet	750	182	568	6.53	3,709
Vegetables (Summer)	1,050	216	834	-	-
Vegetables (Winter)	1,050	216	834	6.53	5,446
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	11,623

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	18.7	7,424
Buffalo	605	176	429	-	-
Total	-	-	-	-	7,424

III. Cost of Hired Labor (LE)

3,448

IV. Total Net Farm Income (LE)

15,599

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 20 feddan

Farm Type : Baladi

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	6.53	1,286
Soybean	276	95	181	6.53	1,182
Sugarbeet	750	182	568	6.53	3,709
Vegetables (Summer)	1,050	216	834	3.27	2,727
Vegetables (Winter)	1,050	216	834	6.53	5,446
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	14,350

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	15.8	6,273
Baffalo	605	176	429	-	-
Total	-	-	-	-	6,273

III. Cost of Hired Labor (LE) 4,212

IV. Total Net Farm Income (LE) 16,411

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 5 feddan

Farm Type : Buffalo

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	1.63	321
Soybean	276	95	181	1.63	295
Sugarbeet	750	182	568	1.63	926
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	1.63	1,359
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	2,901

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	-	-
Buffalo	605	176	429	5.0	2,145
Total	-	-	-	-	2,145

III. Cost of Hired Labor (LE)

0

IV. Total Net Farm Income (LE)

5,046

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 5 feddan

Farm Type : Baffalo

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	1.63	321
Soybean	276	95	181	1.63	295
Sugarbeet	750	182	568	1.63	926
Vegetables(Summer)	1,050	216	834	0.82	684
Vegetables(Winter)	1,050	216	834	1.63	1,359
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	3,585

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	-	-
Baffalo	605	176	429	4.2	1,802
Total	-	-	-	-	1,802

III. Cost of Hired Labor (LE)

29

IV. Total Net Farm Income (LE)

5,358

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 15 feddan

Farm Type : Buffalo

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	4.9	965
Soybean	276	95	181	4.9	887
Sugarbeet	750	182	568	4.9	2,783
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	4.9	4,087
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	8,722

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	-	-
Baffalo	605	176	429	15.1	6,478
Total	-	-	-	-	6,478

III. Cost of Hired Labor (LE)

1,837

IV. Total Net Farm Income (LE)

13,363

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 15 feddan

Farm Type : Baffalo

Cropping Pattern : No,2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	4.9	965
Soybean	276	95	181	4.9	887
Sugarbeet	750	182	568	4.9	2,783
Vegetables(Summer)	1,050	216	834	2.45	2,043
Vegetables(Winter)	1,050	216	834	4.9	4,087
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	11,505

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	-	-
Baffalo	605	176	429	12.7	5,448
Total	-	-	-	-	5,448

III. Cost of Hired Labor (LE) 2,453

IV. Total Net Farm Income (LE) 14,500

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 20 feddan

Farm Type : Baffalo

Cropping Pattern : No.1

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	6.53	1,286
Soybean	276	95	181	6.53	1,182
Sugarbeet	750	182	568	6.53	3,709
Vegetables(Summer)	1,050	216	834	-	-
Vegetables(Winter)	1,050	216	834	6.53	5,446
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	11,623

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	-	-
Baffalo	605	176	429	20.1	8,623
Total	-	-	-	-	8,623

III. Cost of Hired Labor (LE)

3,448

IV. Total Net Farm Income (LE)

16,798

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Calculation of Farm Income

Farm Size : 20 feddan

Farm Type : Baffalo

Cropping Pattern : No.2

I. Crop Income

Crop	Per Net Cultivable Area (LE/fed)			Cropped Area (feddan)	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Rice	315	118	197	6.53	1,286
Soybean	276	95	181	6.53	1,182
Sugarbeet	750	182	568	6.53	3,709
Vegetables(Summer)	1,050	216	834	3.27	2,727
Vegetables(Winter)	1,050	216	834	6.53	5,446
Cotton	472	152	320	-	-
Maize	228	143	85	-	-
Wheat	139	133	6	-	-
Total	-	-	-	-	14,350

II. Livestock Income

	Per Feeding Unit (LE)			No. of Feeding Unit	Total Net Income (LE)
	G.I.	F.C.	N.I.		
Friesian	1,948	863	1,085	-	-
Baladi	573	176	397	-	-
Baffalo	605	176	429	16.9	7,250
Total	-	-	-	-	7,250

III. Cost of Hired Labor (LE) 4,212

IV. Total Net Farm Income (LE) 17,388

Note: G.I. : Gross Income, F.C. : Farm Cost, N.I. : Net Income

Q - 13 Feed Production and Feedable Unit

Feed Production and Feedable Unit

Farm Size : 5 feddans

Cropping Pattern : No. 1

I. Feed Production

	Yield (t/fed)	Cropped Area (feddan)	Total Production (ton)	On-farm Availability (%)	Nutrient Content(%)		Available Nutrition(ton)	
					SE	DCP	SE	DCP
Sorghum	18.0	1.63	29.34	80	11.10	0.40	2.61	0.09
Berseem(LT)	25.0	1.63	40.75	80	7.90	1.96	2.58	0.64
Berseem(ST)	12.0	-	-	80	7.90	1.96	-	-
Rice Straw	3.0	1.63	4.89	100	21.70	-	1.06	-
Wheat Straw	2.7	-	-	100	23.60	0.06	-	-
Beet Pulp	1.175	1.63	1.92	100	53.60	6.00	1.03	0.12
Soybean Cake	0.9	1.63	1.47	100	71.70	38.40	1.05	0.56
Total	-	-	-	-	-	-	8.33	1.41

Note : LT : Long-term, ST : Short-term

II. Feedable Unit

Farm Type	Available Nutrition (ton)		Nutrition Requirement (ton/feeding unit)		Feedable Unit	
	SE	DCP	SE	DCP	SE	DCP
Friesian	8.33	1.41	2.75	0.39	3.0	3.6
Baladi	8.33	1.45	1.78	0.26	4.7	5.4
Baffalo	8.33	1.41	1.66	0.15	5.0	9.4

Feed Production and Feedable Unit

Farm Size : 5 feddans

Cropping Pattern : No. 2

I. Feed Production

	Yield (t/fed)	Cropped Area (feddan)	Total Production (ton)	On-farm Availability (%)	Nutrient Content(%)		Available Nutrition(ton)	
					SE	DCP	SE	DCP
Sorghum	18.0	0.82	14.76	80	11.10	0.40	1.31	0.05
Berseem(LT)	25.0	1.63	40.75	80	7.90	1.96	2.58	0.64
Berseem(ST)	12.0	-	-	80	7.90	1.96	-	-
Rice Straw	3.0	1.63	4.89	100	21.70	-	1.06	-
Wheat Straw	2.7	-	-	100	23.60	0.06	-	-
Beet Pulp	1.175	1.63	1.92	100	53.60	6.00	1.03	0.12
Soybean Cake	0.9	1.63	1.47	100	71.70	38.40	1.05	0.56
Total	-	-	-	-	-	-	7.03	1.37

Note : LT : Long-term, ST : Short-term

II. Feedable Unit

Farm Type	Available Nutrition (ton)		Nutrition Requirement (ton/feeding unit)		Feedable Unit	
	SE	DCP	SE	DCP	SE	DCP
Friesian	7.03	1.37	2.75	0.39	2.6	3.5
Baladi	7.03	1.37	1.78	0.26	3.9	5.3
Baffalo	7.03	1.37	1.66	0.15	4.2	9.1

Feed Production and Feedable Unit

Farm Size : 15 feddans

Cropping Pattern : No. 1

I. Feed Production

	Yield (t/fed)	Cropped Area (feddan)	Total Production (ton)	On-farm Availability (%)	Nutrient Content(%)		Available Nutrition(ton)	
					SE	DCP	SE	DCP
Sorghum	18.0	4.9	88.20	80	11.10	0.40	7.83	0.28
Berseem(LT)	25.0	4.9	122.50	80	7.90	1.96	7.74	1.92
Berseem(ST)	12.0	-	-	80	7.90	1.96	-	-
Rice Straw	3.0	4.9	14.70	100	21.70	-	3.19	-
Wheat Straw	2.7	-	-	100	23.60	0.06	-	-
Beet Pulp	1.175	4.9	5.76	100	53.60	6.00	3.09	0.35
Soybean Cake	0.9	4.9	4.41	100	71.70	38.40	3.16	1.69
Total	-	-	-	-	-	-	25.01	4.24

Note : LT : Long-term, ST : Short-term

II. Feedable Unit

Farm Type	Available Nutrition (ton)		Nutrition Requirement (ton/feeding unit)		Feedable Unit	
	SE	DCP	SE	DCP	SE	DCP
Friesian	25.01	4.24	2.75	0.39	9.1	10.9
Baladi	25.01	4.24	1.78	0.26	14.1	16.3
Buffalo	25.01	4.24	1.66	0.15	15.1	28.3

Feed Production and Feedable Unit

Farm Size : 15 feddans

Cropping Pattern : No. 2

I. Feed Production

	Yield (t/fed)	Cropped Area (Feddan)	Total Production (ton)	On-farm Availability (%)	Nutrient Content(%)		Available Nutrition(ton)	
					SE	DCP	SE	DCP
Sorghum	18.0	2.45	44.10	80	11.10	0.40	3.92	0.14
Berseem(LT)	25.0	4.9	122.50	80	7.90	1.96	7.74	1.92
Berseem(ST)	12.0	-	-	80	7.90	1.96	-	-
Rice Straw	3.0	4.9	14.70	100	21.70	-	3.19	-
Wheat Straw	2.7	-	-	100	23.60	0.06	-	-
Beet Pulp	1.175	4.9	5.76	100	53.60	6.00	3.09	0.35
Soybean Cake	0.9	4.9	4.41	100	71.70	38.40	3.16	1.69
Total	-	-	-	-	-	-	21.10	4.10

Note : LT : Long-term, ST : Short-term

II. Feedable Unit

Farm Type	Available Nutrition (ton)		Nutrition Requirement (ton/feeding unit)		Feedable Unit	
	SE	DCP	SE	DCP	SE	DCP
Friesian	21.10	4.10	2.75	0.39	7.7	10.5
Baladi	21.10	4.10	1.78	0.26	11.9	15.8
Baffalo	21.10	4.10	1.66	0.15	12.7	27.3

Feed Production and Feedable Unit

Farm Size : 20 feddans

Cropping Pattern : No. 1

I. Feed Production

	Yield (t/fed)	Cropped Area (feddan)	Total Production (ton)	On-farm Availability (%)	Nutrient Content(%)		Available Nutrition(ton)	
					SE	DCP	SE	DCP
Sorghum	18.0	6.53	117.54	80	11.10	0.40	10.44	0.38
Berseem(LT)	25.0	6.53	163.25	80	7.90	1.96	10.32	2.56
Berseem(ST)	12.0	-	-	80	7.90	1.96	-	-
Rice Straw	3.0	6.53	19.59	100	21.70	-	4.25	-
Wheat Straw	2.7	-	-	100	23.60	0.06	-	-
Beet Pulp	1.175	6.53	7.67	100	53.60	6.00	4.11	0.46
Soybean Cake	0.9	6.53	5.88	100	71.70	38.40	4.22	2.26
Total	-	-	-	-	-	-	33.34	5.66

Note : LT : Long-term, ST : Short-term

II. Feedable Unit

Farm Type	Available Nutrition (ton)		Nutrition Requirement (ton/feeding unit)		Feedable Unit	
	SE	DCP	SE	DCP	SE	DCP
Friesian	33.34	5.66	2.75	0.39	12.1	14.5
Baladi	33.34	5.66	1.78	0.26	18.7	21.8
Baffalo	33.34	5.66	1.66	0.15	20.1	37.7

Feed Production and Feedable Unit

Farm Size : 20 feddans

Cropping Pattern : No.2

I. Feed Production

	Yield (t/fed)	Cropped Area (feddan)	Total Production (ton)	On-farm Availability (%)	Nutrient Content(%)		Available Nutrition(ton)	
					SE	DCP	SE	DCP
Sorghum	18.0	3.27	58.86	80	11.10	0.40	5.23	0.19
Berseem(LT)	25.0	6.53	163.25	80	7.90	1.96	10.32	2.56
Berseem(ST)	12.0	-	-	80	7.90	1.96	-	-
Rice Straw	3.0	6.53	19.59	100	21.70	-	4.25	-
Wheat Straw	2.7	-	-	100	23.60	0.06	-	-
Beet Pulp	1.175	6.53	7.67	100	53.60	6.00	4.11	0.46
Soybean Cake	0.9	6.53	5.88	100	71.70	38.40	4.22	2.26
Total	-	-	-	-	-	-	28.13	5.47

Note : LT : Long-term, ST : Short-term

II. Feedable Unit

Farm Type	Available Nutrition (ton)		Nutrition Requirement (ton/feeding unit)		Feedable Unit	
	SE	DCP	SE	DCP	SE	DCP
Friesian	28.13	5.47	2.75	0.39	10.2	14.0
Baladi	28.13	5.47	1.78	0.26	15.8	21.0
Baffalo	28.13	5.47	1.66	0.15	16.9	36.5

Q - 14 Initial Investment Cost of Sugarbeet Factory

Initial Investment Cost of Sugarbeet Factory

(Unit : LE 1,000)

Initial Investment

	<u>F/C</u>	<u>L/C</u>	<u>Total</u>
Total Base Cost	63,000	18,310	81,310
Physical Cont. (10%)	6,300	1,831	8,131
<u>Total</u>	<u>69,300</u>	<u>20,141</u>	<u>89,441</u>

Disbursement Schedule

	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>Total</u>
F/C	6,445	20,374	27,443	15,038	69,300
L/C	1,873	5,922	7,975	4,371	20,141
<u>Total</u>	<u>8,318</u>	<u>26,296</u>	<u>35,418</u>	<u>19,409</u>	<u>89,441</u>

Price Escalation

	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>Total</u>
F/C	3,313	12,021	18,387	11,324	45,045
L/C	3,044	11,483	18,279	11,745	44,551
<u>Total</u>	<u>6,357</u>	<u>23,504</u>	<u>36,666</u>	<u>23,069</u>	<u>89,596</u>

Economic Cost

	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>Total</u>
F/C	6,445	20,374	27,443	15,038	69,300
L/C (CF 0.8)	1,498	4,738	6,380	3,497	16,113
<u>Total</u>	<u>7,943</u>	<u>25,112</u>	<u>33,823</u>	<u>18,535</u>	<u>85,413</u>

Initial Investment Cost of Milk Plant

(Unit : LE 1,000)

Initial Investment

	<u>F/C</u>	<u>L/C</u>	<u>Total</u>
Base Cost	8,275	7,994	16,269
Physical Cont. (10%)	828	799	1,627
<u>Total</u>	<u>9,103</u>	<u>8,793</u>	<u>17,896</u>

Disbursement Schedule

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>Total</u>
F/C	3,224	-	-	-	3,197	-	-	2,682	9,103
L/C	2,717	393	-	-	2,917	-	-	2,766	8,793
<u>Total</u>	<u>5,941</u>	<u>393</u>	-	-	<u>6,114</u>	-	-	<u>5,448</u>	<u>17,896</u>

Price Escalation

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>Total</u>
F/C	1,425	-	-	-	2,407	-	-	2,760	6,592
L/C	3,649	639	-	-	7,838	-	-	11,562	23,688
<u>Total</u>	<u>5,074</u>	<u>639</u>	-	-	<u>10,245</u>	-	-	<u>14,322</u>	<u>30,280</u>

Economic Cost

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>Total</u>
F/C	3,224	-	-	-	3,197	-	-	2,682	9,103
L/C	2,174	314	-	-	2,334	-	-	2,213	7,035
<u>Total</u>	<u>5,398</u>	<u>314</u>	-	-	<u>5,531</u>	-	-	<u>4,895</u>	<u>16,138</u>

Initial Investment Cost of Tomato Processing

(Unit : LE 1,000)

Initial Investment

	<u>F/C</u>	<u>L/C</u>	<u>Total</u>
Total Base Cost	1,920	2,629	4,549
Physical Cont. (10%)	192	263	455
<u>Total</u>	<u>2,112</u>	<u>2,892</u>	<u>5,004</u>

Disbursement Schedule

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>Total</u>
F/C	700	-	700	-	712	2,112
L/C	2,090	77	380	-	345	2,892
<u>Total</u>	<u>2,790</u>	<u>77</u>	<u>1,080</u>	-	<u>1,057</u>	<u>5,004</u>

Price Escalation

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>Total</u>
F/C	309	-	413	-	536	1,258
L/C	2,807	125	737	-	927	4,596
<u>Total</u>	<u>3,116</u>	<u>125</u>	<u>1,150</u>	-	<u>1,463</u>	<u>5,854</u>

Economic Cost

	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>Total</u>
F/C	700	-	700	-	712	2,112
L/C	1,672	62	304	-	276	2,314
<u>Total</u>	<u>2,372</u>	<u>62</u>	<u>1,004</u>	-	<u>988</u>	<u>4,426</u>

Q - 15 Stream of Project Cost and Benefit

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	STREAMS OF PROJECT COST	PROJECT COST	AND BENEFIT	*****	PROJECT BENEFIT	NET BENEFIT
1	5398	-	96	5494	-	-5494	
2	314	-	2125	2439	2053	-386	
3	-	-	3597	3597	3481	-116	
4	-	-	4900	4900	5284	384	
5	5531	-	6516	12047	7214	-4833	
6	-	222	8652	8874	9618	744	
7	-	-	10707	10707	12019	1312	
8	4895	-	12837	17732	14427	-3305	
9	-	-	14990	14990	16830	1840	
10	-	333	17036	17369	19233	1864	
11	-	4153	19081	23234	21642	-1592	
12	-	-	22157	22157	25248	3091	
13	-	370	25232	25602	28856	3254	
14	-	-	31355	31355	36069	4714	
15	-	3239	37490	40729	43282	2553	
16	-	222	37490	37712	43282	5570	
17	-	-	37490	37490	43282	5792	
18	-	2809	37490	40299	43282	2983	
19	-	-	37490	37490	43282	5792	
20	-	333	37490	37823	43282	5459	
21	-	3153	37490	40643	43282	2639	
22	-	-	37490	37490	43282	5792	
23	-	370	37490	37860	43282	5422	
24	-	-	37490	37490	43282	5792	
25	-	3239	37490	40729	43282	2553	
26	-	222	37490	37712	43282	5570	
27	-	-	37490	37490	43282	5792	
28	-	2809	37490	40299	43282	2983	
29	-	-	37490	37490	43282	5792	
30	-	333	37490	37823	45535	7712	

***** STREAMS OF PROJECT COST AND BENEFIT *****
(UNIT: LE 1,000)

Milk Processing (Economic) - Milk Price - LE0.25/kg

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	5398	-	-	96	5494	-	-5494
2	314	-	-	2526	2840	30	-2810
3	-	-	-	4335	4335	-	-4335
4	-	-	-	5934	5934	2053	-3881
5	5531	-	-	7927	13458	3481	-9977
6	-	222	-	10533	10755	5284	-5471
7	-	-	-	13058	13058	7214	-5844
8	4895	-	-	15659	20554	9618	-10936
9	-	-	-	18282	18282	12019	-6263
10	-	333	-	20798	21131	14427	-6704
11	-	4153	-	23315	27468	16830	-10638
12	-	-	-	27096	27096	19233	-7863
13	-	370	-	30877	31247	21642	-9605
14	-	-	-	38410	38410	25248	-13162
15	-	3239	-	45956	49195	28856	-20339
16	-	222	-	45956	46178	36069	-10109
17	-	-	-	45956	45956	43282	-2674
18	-	2809	-	45956	48765	43282	-5483
19	-	-	-	45956	45956	43282	-2674
20	-	333	-	45956	46289	43282	-3007
21	-	3153	-	45956	49109	43282	-5827
22	-	-	-	45956	45956	43282	-2674
23	-	370	-	45956	46326	43282	-3044
24	-	-	-	45956	45956	43282	-2674
25	-	3239	-	45956	49195	43282	-5913
26	-	222	-	45956	46178	43282	-2896
27	-	-	-	45956	45956	43282	-2674
28	-	2809	-	45956	48765	43282	-5483
29	-	-	-	45956	45956	43282	-2674
30	-	333	-	45956	46289	43282	-3007

PROJECT YEAR	INITIAL COST	STREAMS OF PROJECT COST	PROJECT COST	AND BENEFIT	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	5398	-	96	*****	5494	-	-5494
2	314	-	2855	Milk Processing (Economic) - Milk Price - LEO.29/kg	3169	30	-3139
3	-	-	4941	*****	4941	-	-4941
4	-	-	6781	*****	6781	2053	-4728
5	5531	-	9084	*****	14615	3481	-11134
6	-	222	12076	*****	12298	5284	-7014
7	-	-	14986	*****	14986	7214	-7772
8	4895	-	17973	*****	22868	9618	-13250
9	-	-	20981	*****	20981	12019	-8962
10	-	333	23883	*****	24216	14427	-9789
11	-	4153	26786	*****	30939	16830	-14109
12	-	-	31146	*****	31146	19233	-11913
13	-	370	35505	*****	35875	21642	-14233
14	-	-	44196	*****	44196	25248	-18948
15	-	3239	52871	*****	56110	28856	-27254
16	-	222	52871	*****	53093	36069	-17024
17	-	-	52871	*****	52871	43282	-9589
18	-	2809	52871	*****	55680	43282	-12398
19	-	-	52871	*****	52871	43282	-9589
20	-	333	52871	*****	53204	43282	-9922
21	-	3153	52871	*****	56024	43282	-12742
22	-	-	52871	*****	52871	43282	-9589
23	-	370	52871	*****	53241	43282	-9959
24	-	-	52871	*****	52871	43282	-9589
25	-	3239	52871	*****	56110	43282	-12828
26	-	222	52871	*****	53093	43282	-9811
27	-	-	52871	*****	52871	43282	-9589
28	-	2809	52871	*****	55680	43282	-12398
29	-	-	52871	*****	52871	43282	-9589
30	-	333	52871	*****	53204	43282	-9922

PROJECT YEAR	INITIAL COST	STREAMS OF PROJECT COST AND BENEFIT *****	PROJECT BENEFIT	NET BENEFIT
1	7943	165	8108	-8108
2	25112	326	25438	-25438
3	33823	534	34357	-34357
4	18535	3084	21619	-14818
5	-	5482	5482	7425
6	-	10632	10632	17233
7	-	13761	13761	23969
8	17	17680	17697	31752
9	20	19315	19335	35011
10	31	19253	19284	34871
11	21	19265	19274	34919
12	3130	19265	22395	31895
13	17	19265	19282	35008
14	20	19265	19285	35005
15	31	19265	19296	34994
16	21	19265	19286	35004
17	-	19265	19265	35025
18	17	19265	19282	35008
19	20553	19265	39818	14472
20	31	19265	19296	34994
21	21	19265	19286	35004
22	-	19265	19265	35025
23	17	19265	19282	35008
24	14793	19265	34058	20232
25	31	19265	19296	34994
26	21	19265	19286	35004
27	-	19265	19265	35025
28	17	19265	19282	35008
29	20	19265	19285	35005
30	31	19265	19296	61617
TOTAL				
			80913	

(UNIT: LE 1,000)

***** STREAMS OF PROJECT COST AND BENEFIT *****
Sugar Processing (Economic) - Sugarbeet Price - LE30/ton
(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	7943	-	-	165	8108	-	-8108
2	25112	-	-	326	25438	30	-25408
3	33823	-	-	534	34357	-	-34357
4	18535	-	-	3837	22372	-	-22372
5	-	-	-	6912	6912	-	-6912
6	-	-	-	13719	13719	6801	-6918
7	-	-	-	17941	17941	12907	-5034
8	-	17	17	23159	23176	27865	4689
9	-	20	20	25336	25356	37730	12374
10	-	31	31	25253	25284	49449	24165
11	-	21	21	25253	25274	54346	29072
12	-	3130	3130	25269	28399	54155	25756
13	-	17	17	25269	25286	54193	28907
14	-	20	20	25269	25289	54290	29001
15	-	31	31	25269	25300	54290	28990
16	-	21	21	25269	25290	54290	29000
17	-	-	-	25269	25269	54290	29021
18	-	17	17	25269	25286	54290	29004
19	-	20553	20553	25269	45822	54290	8468
20	-	31	31	25269	25300	54290	28990
21	-	21	21	25269	25290	54290	29000
22	-	-	-	25269	25269	54290	29021
23	-	17	17	25269	25286	54290	29004
24	-	14793	14793	25269	40062	54290	14228
25	-	31	31	25269	25300	54290	28990
26	-	21	21	25269	25290	54290	29000
27	-	-	-	25269	25269	54290	29021
28	-	17	17	25269	25286	54290	29004
29	-	20	20	25269	25289	54290	29001
30	-	31	31	25269	25300	54290	28990

***** STREAMS OF PROJECT COST AND BENEFIT *****
Tomato Processing (Economic) - Tomato Price LE60/ton

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	2372	-	-	59	2431	-	-2431
2	62	-	-	1086	1148	1524	376
3	1004	-	-	2015	3019	3048	29
4	-	-	-	3016	3016	4572	1556
5	988	34	-	3904	4926	6096	1170
6	-	-	-	4902	4902	7620	2718
7	-	-	-	5821	5821	9144	3323
8	-	-	-	6741	6741	10668	3927
9	-	-	-	7196	7196	11436	4240
10	-	-	-	7196	7196	11436	4240
11	-	747	-	7196	7943	11436	3493
12	-	-	-	7196	7196	11436	4240
13	-	672	-	7196	7868	11436	3568
14	-	-	-	7196	7196	11436	4240
15	-	672	-	7196	7868	11436	3568
16	-	34	-	7196	7230	11436	4206
17	-	-	-	7196	7196	11436	4240
18	-	-	-	7196	7196	11436	4240
19	-	-	-	7196	7196	11436	4240
20	-	-	-	7196	7196	11436	4240
21	-	747	-	7196	7943	11436	3493
22	-	-	-	7196	7196	11436	4240
23	-	672	-	7196	7868	11436	3568
24	-	-	-	7196	7196	11436	4240
25	-	672	-	7196	7868	11436	3568
26	-	34	-	7196	7230	11436	4206
27	-	-	-	7196	7196	11436	4240
28	-	-	-	7196	7196	11436	4240
29	-	-	-	7196	7196	11436	4240
30	-	-	-	7196	7196	11739	4543

***** STREAMS OF PROJECT COST AND BENEFIT *****

Tomato Processing (Economic) - Tomato Price - LE70/ton

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	2372	-	59	2431	-	-2431
2	62	-	1186	1248	30	-1218
3	1004	-	2215	3219	-	-3219
4	-	-	3316	3316	1524	-1792
5	988	34	4304	5326	3048	-2278
6	-	-	5402	5402	4572	-830
7	-	-	6421	6421	6096	-325
8	-	-	7441	7441	7620	179
9	-	-	7946	7946	9144	1198
10	-	-	7946	7946	10668	2722
11	-	747	7946	8693	11436	2743
12	-	-	7946	7946	11436	3490
13	-	672	7946	8618	11436	2818
14	-	-	7946	7946	11436	3490
15	-	672	7946	8618	11436	2818
16	-	34	7946	7980	11436	3456
17	-	-	7946	7946	11436	3490
18	-	-	7946	7946	11436	3490
19	-	-	7946	7946	11436	3490
20	-	-	7946	7946	11436	3490
21	-	747	7946	8693	11436	2743
22	-	-	7946	7946	11436	3490
23	-	672	7946	8618	11436	2818
24	-	-	7946	7946	11436	3490
25	-	672	7946	8618	11436	2818
26	-	34	7946	7980	11436	3456
27	-	-	7946	7946	11436	3490
28	-	-	7946	7946	11436	3490
29	-	-	7946	7946	11436	3490
30	-	-	7946	7946	11436	3490

***** STREAMS OF PROJECT COST AND BENEFIT *****
Tomato Processing (Economic) - Tomato Price - LE80/ton

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	2372	-	59	-	2431	-	-2431
2	62	-	1286	-	1348	30	-1318
3	1004	-	2415	-	3419	-	-3419
4	-	-	3616	-	3616	1524	-2092
5	988	34	4704	-	5726	3048	-2678
6	-	-	5902	-	5902	4572	-1330
7	-	-	7021	-	7021	6096	-925
8	-	-	8141	-	8141	7620	-521
9	-	-	8696	-	8696	9144	448
10	-	-	8696	-	8696	10668	1972
11	-	747	8696	-	9443	11436	1993
12	-	-	8696	-	8696	11436	2740
13	-	672	8696	-	9368	11436	2068
14	-	-	8696	-	8696	11436	2740
15	-	672	8696	-	9368	11436	2068
16	-	34	8696	-	8730	11436	2706
17	-	-	8696	-	8696	11436	2740
18	-	-	8696	-	8696	11436	2740
19	-	-	8696	-	8696	11436	2740
20	-	-	8696	-	8696	11436	2740
21	-	747	8696	-	9443	11436	1993
22	-	-	8696	-	8696	11436	2740
23	-	672	8696	-	9368	11436	2068
24	-	-	8696	-	8696	11436	2740
25	-	672	8696	-	9368	11436	2068
26	-	34	8696	-	8730	11436	2706
27	-	-	8696	-	8696	11436	2740
28	-	-	8696	-	8696	11436	2740
29	-	-	8696	-	8696	11436	2740
30	-	-	8696	-	8696	11436	2740

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	STREAMS OF PROJECT COST AND BENEFIT	*****	PROJECT COST O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	7770	-	155	7925	-	-7925	
2	8319	-	4206	12525	3577	-8948	
3	26116	-	7482	33598	6529	-27069	
4	33823	-	10631	44454	9856	-34598	
5	25054	34	17225	42313	20111	-22202	
6	-	222	24390	24612	30145	5533	
7	-	-	35126	35126	49028	13902	
8	4895	-	43355	48250	62825	14575	
9	-	17	52086	52103	77715	25612	
10	-	353	57165	57518	85015	27497	
11	-	4931	59985	64916	87233	22317	
12	-	21	64345	64366	90877	26511	
13	-	4172	68720	72892	94492	21600	
14	-	17	77411	77428	101705	24277	
15	-	3931	86086	90017	108918	18901	
16	-	287	86086	86373	108918	22545	
17	-	21	86086	86107	108918	22811	
18	-	2809	86086	88895	108918	20023	
19	-	17	86086	86103	108918	22815	
20	-	20886	86086	106972	108918	1946	
21	-	3931	86086	90017	108918	18901	
22	-	21	86086	86107	108918	22811	
23	-	1042	86086	87128	108918	21790	
24	-	17	86086	86103	108918	22815	
25	-	18704	86086	104790	108918	4128	
26	-	287	86086	86373	108918	22545	
27	-	21	86086	86107	108918	22811	
28	-	2809	86086	88895	108918	20023	
29	-	17	86086	86103	108918	22815	
30	-	353	86086	86439	137765	51326	

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	AND BENEFIT	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	5941	-	-	97	6038	-	-6038
2	446	-	-	2613	3059	2121	-938
3	98	-	-	4462	4560	3897	-663
4	138	-	-	6086	6224	5459	-765
5	6302	-	-	8132	14434	7452	-6982
6	495	-	-	10828	11323	9935	-1388
7	313	-	-	13411	13724	12417	-1307
8	5824	-	-	15969	21793	14904	-6889
9	-	-	-	18773	18773	17386	-1387
10	367	-	-	21329	21696	19869	-1827
11	3469	-	-	23909	27378	22357	-5021
12	-	-	-	27784	27784	26083	-1701
13	407	-	-	31657	32064	29809	-2255
14	-	-	-	39353	39353	37262	-2091
15	3563	-	-	47074	50637	44714	-5923
16	245	-	-	47074	47319	44714	-2605
17	-	-	-	47074	47074	44714	-2360
18	3090	-	-	47074	50164	44714	-5450
19	-	-	-	47074	47074	44714	-2360
20	367	-	-	47074	47441	44714	-2727
21	3469	-	-	47074	50543	44714	-5829
22	-	-	-	47074	47074	44714	-2360
23	407	-	-	47074	47481	44714	-2767
24	-	-	-	47074	47074	44714	-2360
25	3563	-	-	47074	50637	44714	-5923
26	245	-	-	47074	47319	44714	-2605
27	-	-	-	47074	47074	44714	-2360
28	3089	-	-	47074	50163	44714	-5449
29	-	-	-	47074	47074	44714	-2360
30	367	-	-	47074	47441	46967	-474

PROJECT YEAR	INITIAL COST	REPLACE. COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	7761	-	185	7946	-	-7946
2	22776	-	370	23146	-	-23146
3	33043	-	630	33673	-	-33673
4	17388	-	3394	20782	5894	-14888
5	3542	-	5756	9298	11186	1888
6	289	-	11015	11304	24150	12846
7	204	-	14176	14380	32699	18319
8	134	-	18142	18276	42856	24580
9	114	-	19792	19906	47100	27194
10	106	-	19729	19835	46935	27100
11	70	-	19729	19799	46971	27172
12	3462	-	19741	23203	46975	23772
13	19	-	19741	19760	46975	27215
14	22	-	19741	19763	46975	27212
15	34	-	19741	19775	46975	27200
16	23	-	19741	19764	46975	27211
17	-	-	19741	19741	46975	27234
18	19	-	19741	19760	46975	27215
19	20608	-	19741	40349	46975	6626
20	34	-	19741	19775	46975	27200
21	23	-	19741	19764	46975	27211
22	-	-	19741	19741	46975	27234
23	19	-	19741	19760	46975	27215
24	16272	-	19741	36013	46975	10962
25	34	-	19741	19775	46975	27200
26	23	-	19741	19764	46975	27211
27	-	-	19741	19741	46975	27234
28	19	-	19741	19760	46975	27215
29	22	-	19741	19763	46975	27212
30	34	-	19741	19775	46975	27200

(UNIT: LE 1,000)

***** STREAMS OF PROJECT COST AND BENEFIT *****

Sugarbeet Processing (Financial) - Sugarbeet Price - LE20/ton

***** INITIAL COST REPLACE. COST O & M COST TOTAL PROJECT BENEFIT NET BENEFIT

***** STREAMS OF PROJECT COST AND BENEFIT *****
(UNIT: LE 1,000)

Sugarbeet Processing (Financial) - Sugarbeet Price - LE30/ton

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	7761	-	185	-	7946	-	-7946
2	22776	-	370	-	23146	30	-23116
3	33043	-	630	-	33673	-	-33673
4	17388	-	4147	-	21535	-	-21535
5	3542	-	7186	-	10728	-	-10728
6	289	-	14102	-	14391	5894	-8497
7	204	-	18356	-	18560	11186	-7374
8	134	-	23621	-	23755	24150	395
9	114	-	25813	-	25927	32699	6772
10	106	-	25729	-	25835	42856	17021
11	70	-	25729	-	25799	47100	21301
12	3462	-	19741	-	23203	46935	23732
13	19	-	19741	-	19760	46971	27211
14	22	-	19741	-	19763	46975	27212
15	34	-	19741	-	19775	46975	27200
16	23	-	19741	-	19764	46975	27211
17	-	-	19741	-	19741	46975	27234
18	19	-	19741	-	19760	46975	27215
19	20608	-	19741	-	40349	46975	6626
20	34	-	19741	-	19775	46975	27200
21	23	-	19741	-	19764	46975	27211
22	-	-	19741	-	19741	46975	27234
23	19	-	19741	-	19760	46975	27215
24	16272	-	19741	-	36013	46975	10962
25	34	-	19741	-	19775	46975	27200
26	23	-	19741	-	19764	46975	27211
27	-	-	19741	-	19741	46975	27234
28	19	-	19741	-	19760	46975	27215
29	22	-	19741	-	19763	46975	27212
30	34	-	19741	-	19775	46975	27200

***** STREAMS OF PROJECT COST AND BENEFIT *****

Tomato Processing (Financial) - Tomato Price - LE60/ton

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	O & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	2787	-	-	74	2861	-	-2861
2	421	-	-	1146	1567	1524	-43
3	1899	-	-	2087	3986	3048	-938
4	1229	-	-	3124	4353	4572	219
5	2689	-	-	4014	6703	6096	-607
6	-	-	-	5048	5048	7620	2572
7	-	-	-	5976	5976	9144	3168
8	-	-	-	6904	6904	10668	3764
9	-	-	-	7367	7367	11436	4069
10	-	-	-	7367	7367	11436	4069
11	822	-	-	7367	8189	11436	3247
12	-	-	-	7367	7367	11436	4069
13	739	-	-	7367	8106	11436	3330
14	-	-	-	7367	7367	11436	4069
15	739	-	-	7367	8106	11436	3330
16	38	-	-	7367	7405	11436	4031
17	-	-	-	7367	7367	11436	4069
18	-	-	-	7367	7367	11436	4069
19	-	-	-	7367	7367	11436	4069
20	-	-	-	7367	7367	11436	4069
21	832	-	-	7367	8199	11436	3237
22	-	-	-	7367	7367	11436	4069
23	739	-	-	7367	8106	11436	3330
24	-	-	-	7367	7367	11436	4069
25	739	-	-	7367	8106	11436	3330
26	38	-	-	7367	7405	11436	4031
27	-	-	-	7367	7367	11436	4069
28	-	-	-	7367	7367	11436	4069
29	-	-	-	7367	7367	11436	4069
30	-	-	-	7367	7367	11739	4372

PROJECT YEAR	INITIAL COST	REPLACE. COST	PROJECT COST	AND BENEFIT	*****	Tomato Processing (Financial) - Tomato Price - LE70/ton	PROJECT BENEFIT	NET BENEFIT
1	2787	-	74	2861	-	2861	-	-2861
2	421	-	1246	1667	30	1667	30	-1637
3	1899	-	2287	4186	-	4186	-	-4186
4	1229	-	3424	4653	1524	4653	1524	-3129
5	2689	-	4414	7103	3048	7103	3048	-4055
6	-	-	5548	5548	4572	5548	4572	-976
7	-	-	6576	6576	6096	6576	6096	-480
8	-	-	7604	7604	7620	7604	7620	16
9	-	-	8117	8117	9144	8117	9144	1027
10	-	-	8117	8117	10668	8117	10668	2551
11	822	-	8117	8939	11436	8939	11436	2497
12	-	-	8117	8117	11436	8117	11436	3319
13	739	-	8117	8856	11436	8856	11436	2580
14	-	-	8117	8117	11436	8117	11436	3319
15	739	-	8117	8856	11436	8856	11436	2580
16	38	-	8117	8155	11436	8155	11436	3281
17	-	-	8117	8117	11436	8117	11436	3319
18	-	-	8117	8117	11436	8117	11436	3319
19	-	-	8117	8117	11436	8117	11436	3319
20	-	-	8117	8117	11436	8117	11436	3319
21	832	-	8117	8949	11436	8949	11436	2487
22	-	-	8117	8117	11436	8117	11436	3319
23	739	-	8117	8856	11436	8856	11436	2580
24	-	-	8117	8117	11436	8117	11436	3319
25	739	-	8117	8856	11436	8856	11436	2580
26	38	-	8117	8155	11436	8155	11436	3281
27	-	-	8117	8117	11436	8117	11436	3319
28	-	-	8117	8117	11436	8117	11436	3319
29	-	-	8117	8117	11436	8117	11436	3319
30	-	-	8117	8117	11436	8117	11436	3319

(UNIT: LE 1,000)

PROJECT YEAR	INITIAL COST	REPLACE. COST	D & M COST	TOTAL	PROJECT BENEFIT	NET BENEFIT
1	2787	-	74	2861	-	-2861
2	421	-	1346	1767	30	-1737
3	1899	-	2487	4386	-	-4386
4	1229	-	3724	4953	1524	-3429
5	2689	-	4814	7503	3048	-4455
6	-	-	6048	6048	4572	-1476
7	-	-	7176	7176	6096	-1080
8	-	-	8304	8304	7620	-684
9	-	-	8867	8867	9144	277
10	-	-	8867	8867	10668	1801
11	822	-	8867	9689	11436	1747
12	-	-	8867	8867	11436	2569
13	739	-	8867	9606	11436	1830
14	-	-	8867	8867	11436	2569
15	739	-	8867	9606	11436	1830
16	38	-	8867	8905	11436	2531
17	-	-	8867	8867	11436	2569
18	-	-	8867	8867	11436	2569
19	-	-	8867	8867	11436	2569
20	-	-	8867	8867	11436	2569
21	832	-	8867	9699	11436	1737
22	-	-	8867	8867	11436	2569
23	739	-	8867	9606	11436	1830
24	-	-	8867	8867	11436	2569
25	739	-	8867	9606	11436	1830
26	38	-	8867	8905	11436	2531
27	-	-	8867	8867	11436	2569
28	-	-	8867	8867	11436	2569
29	-	-	8867	8867	11436	2569
30	-	-	8867	8867	11436	2569

JICA