T-L1- 1 17	1 4	1 A a. t	I Th
Table L-16	~I Annua	l Agacullur	al Benefits

	•		÷					
	•							
					4 1	**		
Table L-16-1 Annual	Agricultural Benefit	ts						
		····		Financial			Economic	
M/P Area	Crops	Case	Net Income	Croped Area	Income	Net Income	Croped Area	Income
			(1000Rls./ha)	(ha)	(1000Rls.)	(1000Ris/ha)	(ha)	(1000Ris.)
Vastegan	Alfalfa (Irrigated)	Without	7,750	282.8	2,191,700	6,690	282.8	1,891,932
		With	7,750	295.5	2,290,125	6,690	295.5	1,976,895
		Benefit			98,425	to see the	<u> 1997 - Paris I</u>	84,963
Chaman Goli-Bazoft	Wheat (Rainfed)	Without	440	1,141.8	502,392	260	1,141.8	296,868
		With	440	1,095.0	481,800	260	1,095.0	284,700
		Benefit			-20,592			-12,168
Test (	Alfalfa (Irrigated)	Without	7,750	55.6	430,900	6,690	55.6	371,964
		With	7,750	102,4	793,600	6,690	102.4	685,056
		Benefit		1. 14. 4	362,700			313,092
	Total Benefit			40.00	342,108			300,924
Sarbaz	Wheat (Rainfed)	Without	440	208.0	91,520	260	208.0	54,080
		With	440	196.7	86,548	260	196.7	51,142
		Benefit			-4,972		salije j	2,938
	Alfalfa (Irrigated)	Without	7,750	420.7	3,260,425	6,690	420.7	2,814,483
	(	With	7,750	494.5	3,832,375	6,690	494.5	3,308,205
		Benefit			571,950			493,722
	Apple	Without	30,550	2,029,5	62,001,225	27,330	2,029.5	55,466,235
		With	30,550	2,097.3	64,072,515	27,330	2,097.3	57,319,209
		Benefit	- 1 T.	2,077.5	2,071,290		_,_,_	1,852,974
	Rangeland	Without	178	5,392.0	959,776	167	5,392.0	900,464
A Company of the Company		With	178	5,335.5	949,719	167	and the second of the second	891,029
		Benefit		د.وروو	-10,057	•	0,000.0	-9,436
	Total Benefit	- Isoliciii		<del></del>	2,628,211	<del></del>	<del> </del>	2,334,323
Tang Sorkh	Wheat (Rainfed)	Without	440	173.4	76,296	260	173.4	45,084
Tang Collins	··· neur (rearmeu)	With	440		39,908	260		23,582
		Benefit			-36,388	200		-21,502
	Alfalfa (Irrigated)	Without	7,750	83.1	644,025	6,690	83.1	555,939
	rama (migaica)	With	7,750		1,235,350	6,690	159.4	1,066,386
		Benefit	7,750	1.73.4		0,000	139.4	
	Vegetable	Without	11,180		591,325 0	9,300	0.0	510,447 0
	· cgcmoic	With	11,180	** *	0	9,300	0.0	0
		Benefit	11,160		0	7,500	0.0	
	Rangeland	Without	178	<del></del>	0	167	0.0	0
	rangeland	With	178		0	167		0
		Benefit			and the second of the second	107	0.0	
	Total Donalit	Deliciti			554.027			488.045
Zeras	Total Benefit				554,937	-		488,945

Table L-16-2 Estimated Net Income Per Hectare (Wheat)

			I	rigated Whea	it .				Rainfed Wh	eat	
Item	Unit	Amount	Fina	ncial	Econ	omic	Amount	Fio	ancial	Eco	nomic
		Amount/ha	Unit Price	Rls./ ha	Unit Price	RIs./ ha	Amount/ha	Unit Price	Rk./ ha	Unit Price	Rls./ ha
Value of Output											
(1) Main-products	kg	2,474.00	1,050	2,597,700	1,190	2,944,060	695,00	1,050	729,750	1,190	827,050
(2) By-products	kg					100					
Total (Revenue)				2,597,700		2,944,060	:	1	729,750	<u> </u>	827,050
Inputs Costs				1.11							
(1) Seed	kg	200	1,000	200,000	940	188,000	170	1,000	170,000	940	159,800
(2) Fertilizer				1				,			*
Manure	kg	800	23	18,400	20	16,000	670	23	15,400	20	13,400
Urea	kg	120	530	63,600	1,000	120,000	100	530	53,000	1,000	100,000
Ammonium phosphate	kg	120	460	55,200	810	97,200	100	460	46,000	810	81,000
Ammonium nitrate	kg	10	450	4,500	790	7,900	10	450	4,500	790	7,900
(3) Agro-chemicals	kg	0.60	8,470	5,100	7,962	4,800	0.40	8,470	3,400	7,962	3,200
		A	7								•
Sub Total (Before Labor Costs)		•		346,800		433,900		:	292,300		365,300
(6) Labor		1									
Family Labor	man day	91			11,750	1,069,250	17			11,750	199,750
Hired Labor	man day	100	25,000	. 0	11,750	. 0		25,000	0	11,750	0
Sub Total (Before Labor Costs)				. 0		1,069,250			0		199,750
Total Costs				346,800		1,503,150	L		292,300		565,050
Income Before Labor Costs				2,250,900		2,510,160			437,450	1, 1	461,750
Net Income				2,250,900		1,440,910	L		437,450		262,000

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

Table L-16-3 Estimated Net Income Per Hectare (Barley

		100	I	rigated Barle	у		1.0		Rainfed Barl	ey	
Item.	Unit	Amount	Fina	ncial	Есоп	omic	Amount	Fin	ancial	Eco	nomic
		Amount/ha	Unit Price	Rls/ba	Unit Price	Rls./ ha	Amount/ha	Unit Price	Rks./ha	Unit Price	Rls./ ha
Value of Output		1.0					A 11.55				
(1) Main-products	kg	2,263.00	800	1,810,400	1,050	2,376,150	807.00	800	645,600	1,050	847,350
(2) By-products	kg										
Total (Revenue)				1,810,400		2,376,150			645,600	. 1	847,350
Inputs Costs											
(1) Seed	kg	200	1,000	200,000	940	188,000	170	1,000	170,000	940	159,800
(2) Fertilizer						100					
Manure	kg	1,400	23	32,200	20	28,000	1,170	23	26,900	20	23,400
Urea	kg	130	530	68,900	1,000	130,000	110	530	58,300	1,000	110,000
Ammonium phosphate	kg	100	460	46,000	810	81,000	80	460	36,800	810	64,800
Ammonium nitrate	kg	0	450	0	<b>7</b> 90	. 0	0	450	0	790	0
(3) Agro-chemicals	kg	0.50	8,470	4,200	7,962	4,000	0.40	8,470	3,400	7,962	3,200
					1, 11						
Sub Total (Before Labor Costs)				351,300		431,000			295,400		361,200
(6) Labor	-										·
Family Labor	man day	84			11,750	987,000	18	1	-	11,750	211,500
Hired Labor	man day		25,000	. 0	11,750	. 0		25,000	0	11,750	. 0
Sub Total (Before Labor Costs)				0		987,000		[ . ]	. 0		211,500
Total Costs				351,300		1,418,000			295,400		572,700
Income Before Labor Costs				1,459,100		1,945,150			350,200		486,150
Net Income	711			1,459,100		958,150			350,200	-	274,650

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

<sup>:</sup> Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

Field Survey

<sup>:</sup> Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

<sup>:</sup> Field Survey

Table L-16-4 Estimated Net Income Per Hectare (Vegetable and Beans)

			V	egetable: Pota	ito			4.	Beaus	· · · · · · · · · · · · · · · · · · ·	
Item .	Unit	Amount	Amount Financial		Economic		Amount	Fi	ancial	Economic	
		Amount/ha	Unit Price	Rls./ ha	Unit Price	Rls./ ha	Amount/ba	Unit Price	Rls./ ha	Unit Price	Rls./ ha
Value of Output							***************************************				
(1) Main-products	kg	14,900.00	800	11,920,000	750	11,175,000	1,643.00	2,285	3,754,255	2,150	3,532,450
(2) By-products	kg			111							
Total (Revenue)				11,920,000	1	11,175,000	14		3,754,255		3,532,45
Inputs Costs											
(1) Seed	kg	400,0	1,000	400,000	940	376,000	10	4,000	40,000	3,760	37,600
(2) Fertilizer											
Manure	kg	3,500	. 23	80,500	20	70,000	14,000	23	322,000	20	280,000
Urea	kġ	300	530	159,000	1,000	300,000	- 100	530	53,000	1,000	100,000
Ammonium phosphate	kg	200	460	92,000	810	162,000	. 110	460	50,600	810	89,100
Ammonium nitrate	kg	0	450	0	790	0	0	450	0	790	(
(3) Agro-chemicals	kg	0.80	8,470	6,800	7,962	6,400	0.70	8,470	5,900	7,962	5,600
					*. •	A 5 5					
Sub Total (Before Labor Costs)				738,300	**:	914,400			471,500		512,300
(6) Labor											
Family Labor	man day	. 82			11,750	963,500	53			11,750	622,750
Hired Labor	man day		25,000	. 0	11,750	0	· 1	25,000	0	11,750	
Sub Total (Before Labor Costs)	·	.		0		963,500	100	100	0	100	622,750
l'otal Costs				738,300		1,877,900			471,500		1,135,05
ncome Before Labor Costs				11,181,700		10,260,600			3,282,755		3,020,150
Net Income				11,181,700	2 .	9,297,100			3,282,755		2,397,40

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

Table L-16-5 Estimated Net Income Per Hectare (Sugar beet, Irrigated Affalfa)

				Sugar beet					Irrigated Alfa	lfa	
Item	Unit	Amount	Fina	ncial	Econ	omic	Amount	Fir	ancial	Eco	nomic
		Amount/ha	Unit Price	Rls./ha	Unit Price	Rls./ ha	Amount/ba	Unit Price	Rls./ ha	Unit Price	Rls./ ha
Value of Output						4 1, 4		1.1			
(1) Main-products	kg	28,800.00	252	7,257,600	250	7,200,000	8,755.00	1,000	8,755,000	940	8,229,700
(2) By-products	kg					9 1	1. 1. 1.				
Total (Revenue)				7,257,600		7,200,000	1 4		8,755,000		8,229,700
Inputs Costs											
(1) Seed	kg	15	2,500	37,500	2,350	35,300	. 60	5,000	300,000	4,700	282,000
(2) Fertilizer									1.2		
Manure	kg	2,700	23	62,100	20	54,000	5,000	23	115,000	20	100,000
Urea	kg	300	530	159,000	1,000	300,000	400	530	212,000	1,000	400,000
Ammonium phosphate	kg	200	460	92,000	810	162,000	. 0	460	0	810	0
Ammonium nitrate	kg	20	450	9,000	790	15,800	. 0	450	0	. 790	0
(3) Agro-chemicals	kg	10.00	8,470	84,700	7,962	79,600	15.00	8,470	127,100	7,962	119,400
		1									
		1									3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Sub Total (Before Labor Costs)				444,300		646, <i>7</i> 00			754,100		901,400
(6) Labor											
Family Labor	man day	83	. [	٠. [	11,750	975,250	44			11,750	517,000
Hired Labor	man day		25,000	. 0	11,750	0	10	25,000	250,000	11,750	117,500
Sub Total (Before Labor Costs)				0		975,250	1 - 1 - 1		250,000		634,500
Total Costs				444,300		1,621,950			1,004,100		1,535,900
Income Before Labor Costs				6,813,300		6,553,300			8,000,900		7,328,300
Net Income				6,813,300		5,578,050			7,750,900		6,693,800

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

<sup>:</sup> Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

<sup>:</sup> Field Survey

<sup>:</sup> Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

<sup>:</sup> Field Survey

Table L-16-6 Estimated Net Income Per Hectare (Rainfed Alfalfa)

		Rainfed Alfalfa								
Item	Unit	Amount	Finar	icial	Econo	mic				
		Amount/ha	Unit Price	Rls./ ha	Unit Price	Rk./ ha				
Value of Output										
(1) Main-products	kg	666,00	1,000	666,000	940	626,046				
(2) By-products	kg									
Total (Revenue)				666,000		626,040				
Inputs Costs										
(1) Seed	kg	25	5,000	125,000	4,700	117,500				
(2) Fertilizer		:								
Manure	kg	500	23	11,500	20	10,000				
Urea	kg	40	530	21,200	1,000	40,00				
Ammonium phosphate	kg	0	460	o	810					
Ammonium nitrate	kg	0	450	- 0	790					
(3) Agro-chemicals	kg	0	8,470	. 0	7,962					
Sub Total (Before Labor Costs)				157,700		167,500				
(6) Labor										
Family Labor	man day	22		ì	11,750	258,50				
Hired Labor	man day		25,000	. 0	11,750	A 100				
Sub Total (Before Labor Costs)			<u> </u>	. 0		258,50				
Total Costs				157,700		426,00				
Income Before Labor Costs				508,300		458,540				
Net Income				508,300		200,04				

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

: Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

: Field Survey

Table L-16-7 Estimated Net Income Per Hectare Apple and Grape)

		1		Apple					Grape		
Item.	Unit	Amount	Fina	ncial	Ecor	omic	Amount	Fir	ancial	Eco	nomic
		Amount/ha	Unit Price	Rks./ ha	Unit Price	Rls./ ha	Amount/ha	Unit Price	Rls./ ha	Unit Price	RIs./ ha
Value of Output											
(1) Main-products	kg	40,000.00	820	32,800,000	770	30,800,000	8,000.00	1,050	8,400,000	990	7,920,000
(2) By-products	kg					- 1					-
Total (Revenue)		l		32,800,000		30,800,000			8,400,000		7,920,000
Inputs Costs			(lifetime=30	year)				(lifetime=3	Oyear)		
(1) Tree	Tree	400	. 67	26,700	1,880	752,000	400	33	13,333	940	376,000
(2) Fertilizer	Ттее	400	700	280,000	. 658	263,200	4,000	23	92,000	20	80,000
.*								li			
(3) Agro-chemicals	Tree	400	1,300	520,000	1,200	480,000			4,800		5,000
(4) Irrigation	Ттее	400	1,300	520,000	1,200	480,000			302,400		284,000
(5) Land preparation	Tree	400	500	200,000	470	188,000			240,000		226,000
(6) Harvest	Tree	400	200	80,000	190	76,000					
Sub Total (Before Labor Costs)				1,626,700		2,239,200			652,533		971,000
(6) Labor											
Family Labor	man day	80			11,750	940,000	80			11,750	940,000
Hired Labor	man day	25	25,000	625,000	11,750	293,750	25	25,000	625,000	11,750	293,750
Sub Total (Before Labor Costs)				625,000		1,233,750			625,000		1,233,750
Total Costs			F	2,251,700		3,472,950			1,277,533		2,204,750
Income Before Labor Costs				31,173,300		28,560,800			7,747,467		6,949,000
Net Income				30,548,300		27,327,050			7,122,467		5,715,250

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

: Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

: Field Survey

Table L-16-8 Estimated Net Income Per Hectare (Almond and Walnuts)

				Almond					Walnuts		<u> </u>
Item	Unit	Amount	Fina	ncial	Econ	omic	Amount	Fi	nancial	Eco	nomic
		Amount/ha	Unit Price	Rks./ ha	Unit Price	Rls./ ha	Amount/ha	Unit Price	. Rls./ ha	Unit Price	Rls./ ha
Value of Output						25.0		. :			
(1) Main-products	.kg	4,000.00	4,000	16,000,000	3,760	15,040,000	20,000	7,200	144,000,000	6,770	135,400,000
(2) By-products	kg.	İ		100		1, 1					they be
Total (Revenue)				16,000,000		15,040,000			144,000,000		135,400,000
Inputs Costs			(lifetime=50)	/ear)				(lifetime=5	Oyear)		
(1) Tree	Tree	400	80	32,000	3,760	1,504,000	400	50	20,000	2,350	940,000
									4.00	43 [	
(2) Total Cost				300,000		282,000			1,000,000		940,000
						1.55			1.0	•	
		1 :									
				100		* .	1				
											1 4 1
					1				4.77		
Sub Total (Before Labor Costs)				332,000		1,786,000			1,020,000	1 1 1	1,880,000
(6) Labor											1 1
Family Labor	man day	44			11,750	517,000	44			11,750	517,600
Hired Labor	man day	25	25,000	625,000	11,750	293,750	25	25,000	625,000	11,750	293,750
Sub Total (Before Labor Costs)				625,000		810,750			625,000		810,750
Total Costs				957,000		2,596,750			1,645,000		2,690,750
Income Before Labor Costs				15,668,000	57.7	13,254,000			142,980,000		133,520,000
Net Income		T		15,043,000		12,443,250			142,355,000		132,709,250

Source: Agricultural Production Costs, 1376/77 and 1377/1378, Agricultural Statistics and Information Department, Ministry of Agriculture.

<sup>:</sup> Provincial Agricultural Organization, Chaharmahal va Bakhtiyari Province, 2001

<sup>:</sup> Field Survey

Table L-16-9 Price Structure of Wheat

Price Structure	Unit	Financial Price	Conversion Factor	Ecnomic Price
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas*	US\$/metric ton	174.2		174.2
mport taxes	US\$/metric ton	0 .		0
Equivalent to Rials for financial analysis (US\$1≒Rls, 1.750)	Rials/metric ton	304,900		
Equivalent to Rials for economic analysis (US\$1=Rls, 4,900)**	Rials/metric ton	- -		853,600
Fransport/ handing consts from port to regional market through marketing agents (1,020 km)	Rials/metric ton	204,000	0.94	191,800
Other marketing margen (105%)***	Rials/metric ton	320,100	0.94	300,900
Ex-mill price	Rials/metric ton	829,000		1,346,300
Milling ratio	%	90.0		90.0
Fransport/ handing consts from regional market of farm gate (Study Area: average 100km)	Rials/metric ton	20,000	0.94	18,800
Farmgate prices	Rials/metric ton	726,100		1,192,900

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

- 2) \*\* The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.
- 3) \*\*\* Including the milling const
- 4) Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.
- 5) The World Bank's projected international market price for year 2010 is applied to the future price.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

Table L-16-10 Price Structure of Barley

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas*	US\$/metric ton	141.4		141.4
Import taxes (7,000Ris/ton)	US\$/metric ton	4		0
Equivalent to Rials for financial analysis	Rials/metric ton	254,500		·
(US\$1=Ris. 1.750) Equivalent to Rials for economic analysis (US\$1=Rls. 4,900)**	Rials/metric ton	<del>-</del> .		692,900
Transport/ handing consts from port to regional market through marketing agents (1,020 km)	Rials/metric ton	204,000	0.94	191,800
Other marketing margen (125%)***	Rials/metric ton	318,100	0.94	299,000
Ex-mill price	Rials/metric ton	776,600		1,183,700
Milling ratio	%	90.0		90.0
Fransport/ handing consts from regional market of farm gate (Study Area: average 100km)	Rials/metric ton	20,000	0.94	18,800
Farmgate prices	Rials/metric ton	678,900		1,046,500

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

- 2) \*\* The shadow exchange rate used for economic analysis is estimated at Ris. 4,900 /US\$.
- 3) \*\*\* Including the milling const
- 4) Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.
- 5) The World Bank's projected international market price for year 2010 is applied to the future price.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

Table L-16-11 Price Structure of Sugar Beets (Raw Sugar)

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas*	US\$/metric ton	229.7		229.7
Import taxes (7,000Rls/ton)	US\$/metric ton	0		0
Equivalent to Rials for financial analysis	Rials/metric ton	402,000		· -
(US\$1=Rls. 1,750)				
Equivalent to Rials for economic analysis	Rials/metric ton	-	•	1,125,500
(US\$1=RIs. 4,900)** Transport/ handing consts from port to regional	Rials/metric ton	204,000	0.94	191,800
market through marketing agents (1,020 km)	Mais/metric ton	204,000	0.54	171,000
,				
Other marketing margen (120%)***	Rials/metric ton	482,400	0.94	453,500
Ex-mill price	Rials/metric ton	1,088,400		1,770,800
Processing Rate	%	15.0		15.0
Transport/ handing consts from regional market	Rials/metric ton	20,000	0.94	18,800
to farm gate (Study Area: average 100km)	e e			
Farmgate prices	Rials/metric ton	143,300	}	246,800

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

- 2) \*\* The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.
- 3) \*\*\* Including the processing const
- 4) Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.
- 5) The World Bank's projected international market price for year 2010 is applied to the future price.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

Table L-16-12 Price Structure of Urea (NPK:46,0,0)

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas or Bandae-e-Emam Khomeyni*	US\$/metric ton	152.8		152.8
Export duties	US\$/metric ton	0		0
Equivalent to Rials for financial analysis (US\$1=RIs, 1.750)	Rials/metric ton	267,400		<u>-</u>
Equivalent to Rials for economic analysis (US\$1=Ris. 4,900)**	Rials/metric ton	-		748,700
Transport/ handing consts from port to market through processors (1020 km)	Rials/metric ton	204,000	0.94	191,800
Other marketing margen (15%)***	Rials/metric ton	40,100	0.94	37,700
Transport/ handing consts from regional market to farm gate (Study Area: average 100km)	Rials/metric ton	20,000	0.94	18,800
Farmgate prices	Rials/metric ton	531,500	•	997,000

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

- 2) \*\* The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.
- 3) Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

Table L-16-13 Price Structure of Potassium Chloride (Muriate of Potash) (NPK: 0,0,60)

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status		······································	Imported	
CIF price at ports of Bandar-e-Abbas or Bandae-e-Emam Khomevni*	US\$/metric ton	140.6		140.6
Export duties	US\$/metric ton	0		0
Equivalent to Rials for financial analysis (US\$1=Rls. 1,750)	Rials/metric ton	246,100		-
Equivalent to Rials for economic analysis (US\$1=Rls. 4,900)**	Rials/metric ton	<b>-</b>		688,900
Transport/ handing consts from port to market through processors (1020 km)	Rials/metric ton	204,000	0.94	191,800
Other marketing margen (15%)***	Rials/metric ton	36,900	0.94	34,700
Transport/ handing consts from regional market to farm gate (Study Area: average 100km)	Rials/metric ton	20,000	0.94	18,800
Farmgate prices	Rials/metric ton	507,000	·	934,200

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

Table L-16-14 Price Structure of Triple Super Phosphate (NPK: 0,46,0)

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas or	US\$/metric ton	124.6		124.6
Bandae-e-Emam Khomeyni*	e .			
Export duties	US\$/metric ton	0		0
Equivalent to Rials for financial analysis	Rials/metric ton	218,100		-
(US\$1=Rls. 1,750)				
Equivalent to Rials for economic analysis	Rials/metric ton	-		610,500
(US\$1=Rls. 4,900)**				
Transport/ handing consts from port to market	Rials/metric ton	204,000	0.94	191,800
through processors (1020 km)				
Other marketing margen (15%)***	Rials/metric ton	32,700	0.94	30,700
Transport/ handing consts from regional market	Rials/metric ton	20,000	0.94	18,800
to farm gate (Study Area: average 100km)				•
Farmgate prices	Rials/metric ton	474,800		851,800

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

<sup>2) \*\*</sup> The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.

<sup>3)</sup> Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.

<sup>2) \*\*</sup> The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.

<sup>3)</sup> Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

<sup>2)</sup> Field survey

Table L-16-15 Price Structure of Ammonium Phosphate (NPK: 11,50,0)

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas or	US\$/metric ton	116.0	-	116
Bandae-e-Emam Khomeyni*		· · · · · · · · · · · · · · · · · · ·		
Export duties	US\$/metric ton	0		0
Equivalent to Rials for financial analysis	Rials/metric ton	203,000		•
(US\$1=Rls. 1,750)				
Equivalent to Rials for economic analysis	Rials/metric ton	-		568,400
(US\$1=Rls. 4,900)**	San	· v	4 - 1 - 2 - 4 - 1	
Transport/ handing consts from port to market	Rials/metric ton	204,000	0.94	191,800
through processors (1020 km)	•			
Other marketing margen (15%)***	Rials/metric ton	30,500	0.94	28,700
	•			•
Transport/ handing consts from regional market	Rials/metric ton	20,000	0.94	18,800
to farm gate (Study Area: average 100km)				
Farmgate prices	Rials/metric ton	457,500		807,700

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

Table L-16-16 Price Structure of Ammonium Nitrate (NPK: 34,0,0)

Price Structure	Unit	Financial Price	Conversion	Ecnomic Price
		Present	Factor	Present
Trade status			Imported	
CIF price at ports of Bandar-e-Abbas or	US\$/metric ton	112.9		112.9
Bandae-e-Emam Khomeyni* Export duties	US\$/metric ton	0		0
Equivalent to Rials for financial analysis (US\$1=Rls. 1.750)	Rials/metric ton	197,600		•
Equivalent to Rials for economic analysis (US\$1=Rls. 4.900)**	Rials/metric ton	• ;		553,200
Transport/ handing consts from port to market through processors (1020 km)	Rials/metric ton	204,000	0.94	191,800
Other marketing margen (15%)***	Rials/metric ton	29,600	0.94	27,800
Transport/ handing consts from regional market to farm gate (Study Area: average 100km)	Rials/metric ton	20,000	0.94	18,800
Farmgate prices	Rials/metric ton	451,200		791,600

Note: 1) \* The CIF price in 1998 is converted to 2000price by adding 1.9% of World Bank estimated MUV inflation factore.

Source: 1) "Foreign Trade Statistical Yearbook 1377", Custom Administration Office.

2) Field survey

<sup>2) \*\*</sup> The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.

<sup>3)</sup> Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.

<sup>2) \*\*</sup> The shadow exchange rate used for economic analysis is estimated at Rls. 4,900 /US\$.

<sup>3)</sup> Transport/ handling costs are calculated based on Rials 200/km-ton of the transport cost.

Table L-16-17 Financial and Economic Price of Agricultural Products

Item	Financial Price	Conversion Factor	Economic Price	Remarks
Unit Price (Rls/kg)				
Wheat	1,050	-	1,190 <sup>2)</sup>	Traded Goods
Barley	800	* . · · ·	1,050 <sup>2)</sup>	Traded Goods
Vegetables (Potato)	800 <sup>5)</sup>	0.94	750 <sup>4)</sup>	
Beans	2,285	0.94	2,150	
Sugar beet	252 1)	_	250 <sup>2)</sup>	Traded Goods
Alfalfa	1,000 গ	0.94	940 49	
Apples (class 1)	820 1)	0.94	770 1)	Traded Goods
Grape	1,050 গ	0.94	990 9	Traded Goods
Almond	4,000	0.94	3,760	Traded Goods
Walnuts	7,200	0.94	6,770 <sup>6)</sup>	Traded Goods
Seed (Rls/kg)				
Wheat	1,000	0.94	940 49	
Barley	1,000 <sup>6)</sup>	0.94	940 4)	
Vegetables (Potato)	1,000	0.94	940 4)	
Beans	4,000 <sup>9</sup>	0.94	3,760	
Sugar beet	2,500	0.94	2,350 4)	
Alfalfa	5,000 <sup>9</sup>	0.94	4,700 4)	
Apples (Ris./tree)	2,000	0.94	1,880 4)	
Grape (Rls./tree)	1,000 <sup>9</sup>	0.94	940 49	
Almond	4,000 <sup>9</sup>	0.94	3,760 <sup>4)</sup>	
Walnuts	2,500	0.94	2,350 4)	
Fertilizer (Rls/kg)				
Manure	23 9	0.94	20 9	
Urea	530 <sup>2)</sup>	-	1,000 2)	Traded Goods
Muriate of Potash	510 <sup>2)</sup>		930 2)	Traded Goods
TSP	470 <sup>2)</sup>		850 <sup>2)</sup>	Traded Goods
Ammonium Phosphate	460 <sup>2)</sup>	_	810 2)	Traded Goods
Ammonium Nitrate	450 2)	-	790 <sup>2</sup> )	Traded Goods
Agro-chemicals (Rls/kg)	8,470 9	0.94	7,962 4)	
Irrigation (Rls/ha)	6)	0.94	0 4)	
Land preparation (Rls/ha)	9	0.94	0 4)	
Labor Cost (RIs/day)	25,000 <sup>6)</sup>	0.47	11,750	

<sup>1)</sup> Guranteed Price in Year 2000-2001, Provincial Agriculture Office, Chahalmahal va Bakhtiyari Province.

<sup>2)</sup> Import/ Export parity

<sup>3)</sup> World Bank's projected international market prices of 2010 prices is derived from "Global Commodity Markets, April 2000, World Bank", given in 1990 constant price terms

<sup>4)</sup> Conversion Factor

<sup>5)</sup> Provincial Agricultural Office, Chahalmahal ve Bakhtiyari Province. Farmgate Price is estimated by excluding transportation cost from market price

<sup>6)</sup> Field Survey.

Table L-16-18 Summary of Field Survey (Agriculture, Livestock)

Item Yield (kg/ha)	Vastegan 1	astegan z	Bazoft	Sarbaz 1	Sarbaz 2	Tangsorkh	Zeras	Average
Wheat	3,000	2,500	2,000			1 (00		2,25
						1,500		
Barley	3,000	2,500	2,000					2,50
Potato	353,000							353,00
Alfalfa	3,000	9,000		1500*3				4,66
Legume	600		1,000					80
Walnuts					•	8,000		8,00
Apple				40,000	1,200	35,000	•	25,40
Unit Price of Seed (Rls./k	(e)	·····			· · · · · · · · · · · · · · · · · · ·			
Wheat	Self	Self	Self			Self	Self	
Barley	Self	Self	Self			OCH	Self	
Potato	Self	Seir	Gen			* .	Seit	
			0.10	5,000				c 00
Alfalfa	Self		Self	5,000				5,00
Legume	Self		Self					
Walnuts								
Apple				12,000	4.1	1		12,00
Input Amount of Seed (kg	/ha)							
Wheat			75			:	60	• 6
Barley	+		75					. 7
Potato	4,000		13					4,00
	4,000		40	100				
Alfalfa			12	120	•			. 6
Legume	20		50				1. 1.	3
Walnuts				* *				
Apple				12,000				12,00
Farmgate Price (Rls./kg)								:
Wheat	1,000	1,000	1,000			1,000	1,000	1,00
Rice	1,000	1,000					2,000	1,00
Beans	5,000	1,000	1000-5000			6,000		5,50
			1000-2000			0,000		
Potato	800	4 000	100					80
Alfalfa		1,000			4			1,00
Legume	•							
Walnuts	•	•			- 1 - 17 -	1,200		1,20
Apple			•	1,800	1,500	1,500		1,60
Unit Price of Fertilizer (R	ls./kg)							
Urca	500	400	17,000seek	360	500	500	525	46
TSP	600		13,000seek		700	500	350	53
Manure		300	Animal	234	Animal	500		23
Input Amount of Fertilize	* (ka/ha)		7 1111111111	2.0 1	7 31111101			
	(Kg/lla)						50	
Urea							50	5
TSP								. :
Малиге								
Transportation						•		
Means	Pick-up	Pick-up	Pick-up	Foot	Tricycle		Pick-up	
Distance (km)	20	30			150	30	25	7
Cost (Rls./km)	2,500	1,300			2000-2600		3000bagag	1,60
Cost (Rls./head)	2500Rls/km	2,500	1000Rls/km		2000-2000 2000Rls/km		10,000	10,00
	2001US/KIII		1000143/KI	50,000		<u> </u>		
Tractor (Ris./ha)					20,000		50,000	40,00
Days	<u>.</u>		<u></u>	<u> </u>	·			
Labor Cost				20,000	25,000		30,000	25,00
Electricity (Rls./month)	7,500	10,000	7,500		7,500	•		8,12
Kerosense (Rls./month)	60,000	15,000						37,50
Unit Price of Livestock (1		<del></del>			<del></del>			
Cow	2,009,000	3000R/ka			1 500 000	9000Rls/kg	1	1,754,50
		ZAVIOVO			1,200,000			
Cattle (adult)	2,900,000	ንስስስጥ ተ				9000Rls/kg		2,900,00
Cattle (calf)	1,500,000	SUUUK/kg	g.c.c					1,500,00
Sheep			300,000		300,000	18000Rls/k		300,00
Goat			150,000				150,000	150,00
Chicken				•				
Sheep & Goat Baby		1000R/kg				1000R/kg	10000Rls/kg	
Bee keeping (Rls/kg)				15000P.	20000R/kg	oriving	18000R/kg	
	u made at /Di	o flect	<del></del>	TOOORAKE	2000001VKg	·	TOUNDINKE	
Unit Price of Livestock B	y-products (Ri	5./Kg)		•			4.600	4
							- 1 4(V)	1,50
Milk Butter			•				1,500 25,000	25,00

Source: Field Survey, April - May, 2001

L - 122

Master Plan	0		Financial		Conversion		Economic	
Area	Cource	Without	With	Benefit	Factor	Without	With	Benefit
Vastegan	Kornak Sofla to Bourjen, Sharekord (Wheat)	18,810	3,490	15,320	0.94	17,680	3,280	14,400
	Kornak Sofla, Nasir Abad to Bourjen, Sharekord (Wheat]	37,630	6,970	30,660	0.94	35,370	6,550	28,820
	Nasir Abad to Bourjen, Sharekord (Wheat)	56,440	10,460	45,980	0.94	53,050	9,830	43,220
	Movement of Villagers (Village to Market)	23,470	5,130	18,340	0.94	22,060	4,820	17,240
	Total			110,300				103,680
Bazoft	Tabarak Sofia to Farsan (Wheat)	16,700	6,050	10,650	0.94	15,700	5,690	10,010
	Tabarak Sofla to Farsan (Walnuts)	7,420	2,690	4,730	0.94	6,970	2,530	4,440
	Tabarak Sofia to Faisan (Milk)	11,280	4,090	7,190	0.94	10,600	3,840	6,760
	Tabarak Sofia to Farsan (Fish)	13,160	4,770	8,390	0.94	12,370	4,480	7,890
	Tabarak Olya to Farsan (Wheat)	15,180	5,500	9,680	0.94	14,270	5,170	9,100
	Tabarak Olya to Farsan (Walnuts)	7,420	2,690	4,730	Ò.94	6,970	2,530	4,440
	Tabarak Olya to Farsan (Fish)	11,280	4,090	7,190	0.94	10,600	3,840	6,760
	Gale Tabarak (Wheat)	5,780	2,090	3,690	0.94	5,430	1,960	3,470
	River side to Farsaan (Wheat)	4,380	1,590	2,790	0.94	4,120	1,490	2,630
•	River side to Farsaan (Wheat)	1,590	570	1,020	0.94	1,490	540	. 950
	Movement of Villagers (Village to Market)	16,970	6,980	9,990	0.94	15,950	6,560	9,390
	Total	,	-,	70,050			-,000	65,840
Sarbaz	Noor Abad to Semirom, Esfahan (Apple)	237,310	86,020	151,290	0.94	223,070	80,860	142,210
	Noor Abad to Semirom, Esfahan (Apple)	144,200	52,270	91,930	0.94	135,550	49,130	86,420
	Sarbaz to Semirom, Esfahan (Apple)	680,620	246,700	433,920	0.94	639,780	231,900	407,880
	Sarbaz to Semirom, Esfahan (Milk)	8,460	3,070	5,390	0.94	7,950	2,890	5,06
	Sarbaz to Semirom, Esfahan (Milk)	8,460	3,070	5,390	0.94	7,950	2,890	5,060
	Sarbaz to Semirom, Esfahan (Fish)	8,460	3,070	5,390	0.94	7,950	2,890	5,060
	Farm to Telmohamad (Apple)	219,180	79,450	139,730	0.94	206,030	74,680	131,350
	Telmohamad to Yasuj (Apple)	151,290	54,840	96,450	0.94	142,210	51,550	90,660
	Deh Bozorg to Yasuj (Apple)	151,290	54,840	96,450	0.94	142,210	51,550	90,660
	Kahangan to Yasuj (Apple)	151,290	54,840	96,450	0.94	142,210	51,550	90,666
	Movement of Villagers (Village to Market)	386,010	158,750	227,260	0.94	362,850	149,230	213,62
	Total	200,010	130,750	1,349,650	0.74	501,050	147,230	1,268,64
Tang Sorkh	Farm to Tangsorkh (Apple)	11,330	4,110	7,220	0.94	10,650	3,860	6,790
HILE COLLEGE	Farm to Tangsorkh (Wheat)	1,020	370	650	0.94	960	350	610
	Farm to Tangsorkh (Apple)	39,550	14,340	25,210	0.94	37,180	13,480	23,700
	Farm to Tangsorkh (Wheat)	8,650	3,140	5,510	0.94	8,130	2,950	5,180
	Farm to Tangsorkh (Wheat)	3,260	1,180	2,080	0.94	3,060	1,110	1,950
	Tangsorkh to Yasuj (Apple)	48,200	17,470	30,730	0.94	45,310	16,420	28,89
	Tangsorkh to Yasnj (Horticultural Crops)	24,100	8,740	15,360	0.94	22,650	8,220	14,430
	Tangsorkh to Yasuj (Fish)	12,220	4,430	7,790	0.94	11,490	4,160	7,330
	Movement of Villagers (Village to Market)	11,520	4,740	6,780	0.94	10,830	4,460	6,370
	Total	11,520	4,740	101,330	0.94	10,030	4,400	95,250
Leras	Zeras to Dehdaz, Izeh (Wheat)	4,160	1,510	2,650	0.94	3,910	1.420	
A. A.	Sebalatak to Dehdaz, Izeh (Wheat)		470	2,030 820			1,420	2,490
	Ali Bandeh to Debdaz, Izeh (Wheat)	1,290			0.94	1,210	440	770
	Ali Bandeh to Dehdaz, Izeh (Wheat)	11,940	4,330	7,610	0.94	11,220	4,070	7,15
		990	360	630	0.94	930	340	59
	Cham to Dehdaz, Izeh (Wheat)	36,030	13,060	22,970	0.94	33,870	12,280	21,590
	Cham to Dehdaz, Izeh (Wheat)	107,010	38,790	68,220	0.94	100,590	36,460	64,130
	Movement of Villagers (Village to Market)	1,736,310	714,070	1,022,240	0.94	1,632,130	671,230	960,900
	Total			1,125,140				1,057,62

Table L-17-2 Estimated Distance and Amount of Transportation

Master Plan	Distance of Trans	portation			Transport Item			
Area	From	То	(km)	Item	Area/ Scale	Crop Intencity (%)	Yield (t/ha)	Total (t/year)
Vastegan	Farm (Konarak Sofla)	Market (Bourjen, Sharekord)	2.50	Agricultural Products (Irrigated Wheat)	280 ha	27%	2.47	187
	Farm (Konarak Sofla, Nasir Abad)	Market (Bourjen, Sharekord)	5.00	Agricultural Products (Irrigated Wheat)	280 ha	27%	2.47	187
	Farm (Nasir Abad)	Market (Bourjen, Sharekord)	7.50	Agricultural Products (Irrigated Wheat)	280 ha	27%	2.47	187
Bazoft	Farm (Tabarak Sofia)	Market (Farsan)	3.00	Agricultural Products (Rainfed Wheat)	386 ha	100%	0.70	270
			3.00	Agricultural Products (Walnuts)	6 ha	100%	20.00	120
	Milk Processing Facility (Tabarak Sofla)	Market (Farsan)	3.00	Milk Processing Products	300 kg/day	-	-	110
	Fish Pond (Tabarak Sofla)	Market (Farsan)	3 <i>.5</i> 0	Fish Culture Products	200 t	<del>-</del> ,	-	200
	Farm (Tabarak Olya)	Market (Farsan)	3.00	Agricultural Products (Rainfed Wheat)	351 ha	100%	0.70	246
			3.00	Agricultural Products (Walnuts)	6 ha	100%	20.00	120
	Fish Pond (Tabarak Olya)	Market (Farsan)	3.00	Fish Culture Products	30 t	•	-	30
	Fram (Ghale Tabarak)	Market (Farson)	4,50	Agricultural Products (Rainfed Wheat)	89 ha	100%	0.70	62
	Farm (River Side)	Market (Farsan)	2.00	Agricultural Products (Irrigated Wheat)	43 ha	100%	2.47	106
			2.00	Agricultural Products (Rainfed Wheat)	55 ha	100%	0.70	39
Sarbaz	Farm (Noorabad)	Market (Semilom, Esfahan)	4.50	Agricultural Products (Apple)	64 ha	100%	40.00	2,560
			1.75	Agricultural Products (Apple)	100 ha	100%	40.00	4,000
	Farm (Sarbaz)	Market (Semilom, Esfahan)	3.50	Agricultural Products (Apple)	236 ha	100%	40.00	9,440
	Milk Processing Facility (Sarbaz)	Market (Semilom, Esfahan)	2.25	Milk Processing Products	300 kg/day	-	· -	110
	Collecting and Distribution Facility for Milk (Sarbaz)	Market (Semilom, Esfahan)	2.25	Collecting and Distribution Facility for Milk	5,000 kg/day	-	-	1,825
	Fish Pond (Sarbaz)	Market (Semilom, Esfahan)	2.25	Fish Culture Products	100 t	-	. •	100
	Farm (Telmonamad)	Village (Telmonamad)	2.00	Agricultural Products (Apple)	133 ha	100%	40.00	<b>5,32</b> 0
	Apple Collecting and Grading Center (Telmonamad)	Market (Yasuj)	17.00	Graded Apple (20% of Products)	432,000 kg/year	-		432
	Apple Collecting and Grading Center (Deh Bozorg)	Market (Yasuj)	17.00	Graded Apple (20% of Products)	432,000 kg/year	-	•	432
	Apple Collecting and Grading Center (Kahangan)	Market (Yasuj)	17.00	Graded Apple (20% of Products)	432,000 kg/year	-	· · · · · · · · · · · · · · · · · ·	432
Tang Sorkh	Farm	Village (Tang Sorkg)	1.25	Agricultural Products (Apple)	11 ha	100%	40.00	440
			1.25	Agricultural Products (Irrigated Wheat)	16 ha	100%	2.47	40
			2.00	Agricultural Products (Apple)	24 ha	100%	40.00	960
			2.00	Agricultural Products (Irrigated Wheat)	85 ha	100%	2.47	210
			1.00	Agricultural Products (Irrigated Wheat)	64 ha	100%	2.47	158
	Apple Grading Center (Tang Sorkg)	Market (Yasuj)	3.25	Graded Apple	720,000 kg/year	-	-	720
	Horticultural Crops Grading Center (Tang Sorkg)	Market (Yasuj)	3.25	Horticultural Crops	360,000 kg/year	-	-	360
•	Fish Pond (Tang Sorkg)	Market (Yasuj)	3.25	Fish Culture Products	30 t	-	-	30
Zeras	Farm (Zeras)	Market (Dehdez, Izeh)	2.00	Agricultural Products (Rainfed Wheat)	209 ha	69%	0.70	101
	Farm (Sebalufak)	Market (Dehdez, Izeh)	1.75	Agricultural Products (Rainfed Wheat)	74 ha	69%	0.70	36
	Farm (Ali Bandeh)	Market (Dehdez, Izeh)	8.00	Agricultural Products (Rainfed Wheat)	150 ha	69%	0.70	72
			2.00	Agricultural Products (Rainfed Wheat)	50 ha	69%	0.70	. 24
	Farm (Cham)	Market (Dehdez, Izeh)	17.00	Agricultural Products (Rainfed Wheat)	213 ha	69%	0.70	103
•			15.00	Agricultural Products (Rainfed Wheat)	717 ha	69%	0.70	346

L - 12

Table L-17-3 Estimated Number of Transportation

Master Plan		Production	Carrying Capacity	Number of Vehicle				
Area	Cource	(t/year)	(t/unit)	Shipment ①	Daily Activity ②	Total (①+②)×2		
Vastegan	Kornak Sofla to Bourjen, Sharekord (Wheat)	187	0.50	373	1,494	3,73		
	Komak Sofla, Nasir Abad to Bourien, Sharekord (Wheat)	187	0.50	373	1,494	3,73		
	Nasir Abad to Bourjen, Sharekord (Wheat)	187	0.50	373	1,494	3,73		
Bazoft	Tabarak Sofla to Farsan (Wheat)	270	0.50	540	2,162	5,40		
	Tabarak Sofla to Farsan (Walnuts)	120	0.50	240	960	2,40		
	Tabarak Sofla to Farsan (Milk)	110	_	365	1,460	3,650		
	Tabarak Sofla to Farsan (Fish)	200		365	1,460	3,65		
	Tabarak Olya to Farsan (Wheat)	246	0.50	491	1,966	4,914		
	Tabarak Olya to Farsan (Walnuts)	120	0.50	240	960	2,40		
	Tabarak Olya to Farsan (Fish)	30	<b></b> ,	365	1,460	3,65		
	Gale Tabarak (Wheat)	62	0.50	125	498	1,24		
	River side to Farsaan (Wheat)	106	0.50	212	850	2,12		
	River side to Farsaan (Wheat)	39	0.50	. 77	308	77		
Sarbaz -	Noor Abad to Semirom, Esfahan (Apple)	2,560	0.50	5,120	20,480	51,20		
	Noor Abad to Semirom, Esfaban (Apple)	4,000	0.50	8,000	32,000	80,00		
	Sarbaz to Semirom, Esfahan (Apple)	9,440	0.50	18,880	75,520	188,80		
	Sarbaz to Semirom, Esfahan (Milk)	110	-	365	1,460	3,65		
	Sarbaz to Semirom, Esfahan (Milk)	1,825		365	1,460	3,65		
	Sarbaz to Semirom, Esfahan (Fish)	100	_	365	1,460	3,65		
	Farm to Telmohamad (Apple)	5,320	0.50	10,640	42,560	106,40		
	Telmohamad to Yasuj (Apple)	432	0.50	864	3,456	8,64		
	Deh Bozorg to Yasuj (Apple)	432	0.50	864	3,456	8,64		
·	Kahangan to Yasuj (Apple)	432	0.50	864	3,456	8,64		
fang Sorkh	Farm to Tangsorkh (Apple)	440	0.50	880	3,520	8,80		
	Farm to Tangsorkh (Wheat)	40	0.50	79	316	79		
	Farm to Tangsorkh (Apple)	960	0.50	1,920	7,680	19,20		
	Farm to Tangsorkh (Wheat)	210	0.50	420	1,680	4,19		
	Farm to Tangsorkh (Wheat)	158	0.50	316	1,265	3,16		
	Tangsorkh to Yasuj (Apple)	720	0.50	1,440	5,760	14,40		
	Tangsorkh to Yasuj (Horticultural Crops)	360	0.50	720	2,880	7,20		
•	Tangsorkh to Yasuj (Fish)	30	-	365	1,460	3,65		
Zeras	Zeras to Debdaz, Izeh (Wheat)	101	0.50	202	808	2,01		
	Sebalutak to Dehdaz, Izeh (Wheat)	36	0.50	71	286	71:		
	Ali Bandeh to Debdaz, Izeh (Wheat)	72	0.50	145	580	1,449		
	Ali Bandeh to Dehdaz, Izeh (Wheat)	24	0.50	48	193	48:		
	Cham to Dehdaz, Izeh (Wheat)	103	0.50	206	823	2,05		
	Cham to Dehdaz, Izeh (Wheat)	346	0.50	693	مدہ 2,770	6,920		

Table L-17-4 Estimated Number of Transportation (Person)

Master Plan		Distance		Population		Carrying Capacity	Number of			Wi	thout Project					W	ith Project			
Area	Cource	(km)	Year 2020	50%	52 Times/- Year	person/ unit	Vehicle	Speed	Operation Hours	Expenditur e (Ris Au)	Expenditure of Driving (Ris.)	Wage & Salary (Ris.)	Total Expenditure (Ris.)	Speed	Operation Hours	Expenditur e (Ris./hr)	Expenditure of Driving (RIs.)	Wage & Salary (Ris.)	Total Expenditure (Ris.)	Project Bene
Vastegan	Nasir Abad to Bourjen, Sharekord	7.50	830	415	21,580	5.0	4316	10	3237,00	450	1,456,650	22,011,600	23,468,250	60	539.50	2,700	1,456,650	3,668,600	5,125,250	18,343,000
							······································						23,468,250						5,125,250	18,343,000
Bazoft	Tabarak Sofia to Farsan	3.00	1,770	885	46,020	5.0	9204	30	1380.60	900	1,242,540	9,388,080	10,630,620	60	460.20	2,700	1,242,540	3,129,360	4,371,900	6,258,720
	Tabarak Olya to Farsan	3.00	740	3 <b>7</b> 0	19,240	5.0	3848	20	577 <b>.2</b> 0	900 .	519,480	3,924,960	4,444,440	60	192.40	2,700	519,480	1,308,320	1,827,800	2,616,640
	Gale Tabarak to Farsan	4.50	210	105	5,460	5.0	1092	20	245.70	900	221,130	1,670,760	1,891,890	60	81.90	2,700	221,130	556,920	778,050	1,113,840
	<u> </u>								,				16,966,950						6,977,750	9,989,200
Sarbaz	Noor Abad to Semirom, Esfahan	4,50	1,020	510	26,520	5.0	5304	20	1193.40	900	1,074,060	8,115,120	9,189,180	60	397.80	2,700	1,074,060	2,705,040	3,779,100	5,410,080
	Sarbaz to Semirom, Esfahan	2.25	3,640	1820	94,640	- 5.0	18928	20	2129.40	900	1,916,460	14,479,920	16,396,380	60	709.80	2,700	1,916,460	4,826,640	6,743,100	9,653,280
	Telinohamad to Yasuj	17,00	4,660	2430	126,360	5.0	25272	20	21481.20	900	19,333,080	146,072,160	165,405,240	60	7160.40	2,700	19,333,080	48,690,720	68,023,800	97,381,44
	Deh Bozorg to Yasuj	17.00	2,910	1455	75,660	5.0	15132	20	12862.20	900	11,575,980	87,462,960	99,038,940	60	4287,40	2,700	11,575,980	29,154,320	40,730,300	58,308,64
	Kahangan to Yasuj	17.00	2,820	1410	73,320	5.0	14664	20	12464.40	900	11,217,960	84,757,920	95,975,880	60	4154.80	2,700	11,217,960	28,252,640	39,470,600	56,505,28
	<u> </u>						·				<u> </u>		386,005,620						158,746,900	227,258,72
Tang Sorkh	Tangsorkh to Yasuj	3.25	1,600	800	41,600	5.0	8320	20	1352.00	900	1,216,800	9,193,600	10,410,400	60	450.67	2,700	1,216,800	3,064,533	4,281,333	6,129,067
	Sar Tangsorkh to Yasuj	3.25	170	. 85 .	4,420	5.0	884	20	143.65	900	129,285	976,820	1,106,105	60	47.88	2,700	129,285	325,607	454,892	651,213
<u></u>	*												11,516,505		<u> </u>			<del></del>	4,736,225	6,780,280
Zeras	Zeras to Dehdaz, Izch	150.00	80	40	2,080	5.0	416	20	3120.00	900	2,808,000	21,216,000	24,024,000	60	1040,00	2,700	2,808,000	7,072,000	9,880,000	14,144,00
	Bardkal to Dehdaz, Izeh	150.00	20	10	520	5.0	104	20	780.00	900	702,000	5,304,000	6,006,000	60	260.00	2,700	702,000	1,768,000	2,470,000	3,535,000
1 .1.	Ali Bandeh to Dehdaz, Izeh	209.00	10	5	260	5.0	52	20 -	\$43,40	900	489,060	3,695,120	4,184,180	60	181.13	2,700	489,060	1,231,707	1,720,767	2,463,413
	Bahoz to Dehdaz, Izeh	209.00	410	205	10,660	5.0	2132	20	22279.40	900	20,051,460	151,499,920	171,551,380	60	7426,47	2,700	20,051,460	50,499,973	70,551,433	100,999,94
	Sebalutak to Dehdaz, Izeh	74.00	. <b>7</b> 0 -	35	1,820	5.0	364	. 20	1346.80	900	1,212,120	9,158,240	10,370,360	60	448.93	2,700	1,212,120	3,052,747	4,264,867	6,105,493
	Gard Lidan to Dehdaz, Izeh	717.00	130	65	3,380	5.0	676	20	24234.60	900	21,811,140	164,795,280	186,606,420	60	8078.20	2,700	21,811,140	54,931,760	76,742,900	109,863,52
	Dareh Zangi to Dehdaz, Izeh	717.00	600	300	15,600	5.0	3120	20	111852.00	900	100,666,800	760,593,600	861,260,400	60	37284.00	2,700	100,666,800	253,531,200	354,198,000	507,062,40
	Badeion to Dehdaz, Izeh	717.00	200	100	5,200	5.0	1040	. 20	37284.00	900	33,555,600	253,531,200	287,086,800	60	12428,00	2,700	33,555,600	84,510,400	118,066,000	169,020,80
	Dareh Sohrab to Dehdaz, Izeh	700.00	120	60	3,120	5.0	624	20	21840.00	900	19,656,000	148,512,000	168,168,000	60	7280.00	2,700	19,656,000	49,504,000	69,160,000	99,008,00
							:													
	Cham to Dehdaz, Izeh	213,00	40	20	1,040	5.0	208	- 20	2215.20	900	1,993,680	15,063,360	17,057,040 1,736,314,580	60	738.40	2,700	1,993,680	5,021,120	7,014,800	10,042,240

				t					
Master Plan Area	Cource	Number of Vehicle	Distance (km)	Speed (km/hr)	Operation Hours (hr)	Expenditure (Rls./hr)	Expenditure of <sup>1</sup> Driving (RIs.)	Wage & Salary (Rls.)	Total Expenditure (Rls.)
Vastegan	Kornak Sofla to Bourjen, Sharekord (Wheat)	3,735	2.50	10	934	450	420,147	18,393,102	18,813,249
	Komak Solla, Nasir Abad to Bourjen, Sharekord (Wheat)	3,735	5.00	10	1,867	450	840,294	36,786,204	37,626,498
	Nasir Abad to Bourjen, Sharekord (Wheat)	3,735	7.50	10	2,801	450	1,260,441	55,179,306	56,439,747
	Total			·		- <del></del>			112,879,494
Bazoft	Tabarak Sofia to Farsan (Wheat)	5,404		. 20	811	900	•	15,968,820	16,698,360
	Tabarak Sofla to Farsan (Walnuts)	2,400		. 20	360	900	·	7,092,000	7,416,000
	Tabarak Sofia to Farsan (Milk)	3,650		20	548	900	•	10,785,750	11,278,500
	Tabarak Sofia to Farsan (Fish)	3,650		20	639	900		12,583,375	13,158,250
	Tabarak Olya to Farsan (Wheat)	4,914	3.00	. 20	737	900	663,390	14,520,870	15,184,260
	Tabarak Olya to Farsan (Walnuts)	2,400	3.00	. 20	360	900	324,000	7,092,000	7,416,000
	Tabarak Olya to Farsan (Fish)	3,650	3.00	. 20	548	900	492,750	10,785,750	11,278,500
	Gale Tabarak (Wheat)	1,246	4.50	. 20	280	900	252,315	5,522,895	5,775,210
	River side to Farsaan (Wheat)	2,124	2.00	20	212	900	191,178	4,184,674	4,375,852
	River side to Farsaan (Wheat)	770	2.00	20	· 77	900	69,300	1,516,900	1,586,200
	Total			34 J		· · ·			94,167,132
Sarbaz	Noor Abad to Semirom, Esfahan (Apple)	51,200	4.50	. 20	11,520	900	10,368,000	226,944,000	237,312,000
	Noor Abad to Semirom, Esfahan (Apple)	80,000	1.75	20	7,000	900	6,300,000	137,900,000	144,200,000
	Sarbaz to Semirom, Esfahan (Apple)	186,800	3,50	20	33,040	900	29,736,000	650,888,000	680,624,000
	Sarbaz to Semirom, Esfahan (Milk)	3,650	2.25	20	411	900	369,563	8,089,313	8,458,875
	Sarbaz to Semirom, Esfahan (Mik)	3,650	2.25	20	411	900	369,563	8,089,313	8,458,873
	Sarbaz to Semirom, Esfahan (Fish)	3,650	2.25	20	411	900	369,563	8,089,313	8,458,875
	Farm to Telmohamad (Apple)	106,400	2.00	20	10,640	900	9,576,000	209,608,000	219,184,000
•	Telmohamad to Yasuj (Apple)	8,640	17.00	20	7,344	900	6,609,600	144,676,800	151,286,400
	Deh Bozorg to Yasuj (Apple)	8,640	17.00	20	7,344	. 900	6,609,600	144,676,800	151,286,400
	Kahangan to Yasuj (Apple)	8,640	17.00	20	7,344	900	6,609,600	144,676,800	151,286,400
	Total							1 4	1,760,555,825
Tang Sorkh	Farm to Tangsorkh (Apple)	8,800	1.25	20	550	900	495,000	10,835,000	11,330,000
	Farm to Tangsorkh (Wheat)	790		20	49	900		973,180	1,017,640
	Farm to Tangsorkh (Apple)	19,200		20	1,920	900		37,824,000	39,552,000
	Farm to Tangsorkh (Wheat)	4,199		20	420	900		8,272,030	8,649,940
	Farm to Tangsorkh (Wheat)	3,162		20	158	900	,	3,114,176	3,256,446
	Tangsorkh to Yasuj (Apple)	14,400		20	2,340	900	2,106,000	46,098,000	48,204,000
	Tangsorkh to Yasuj (Horticultural Crops)	7,200		20	1,170	900		23,049,000	24,102,000
	Tangsorkh to Yasuj (Fish)	3,650		20	593	900	533,813	11,684,563	12,218,375
	Total	3,000	3.2.7	. 20		900	333,013	11,004,303	148,330,403
Zeras	Zeras to Dehdaz, Izeh (Wheat)	2,019	2.00		202	900	101 700	2077.212	
ries	Sebahitak to Dehdaz, Izeh (Wheat)	715		20				3,977,312	4,159,016
	Ali Bandeh to Dehdaz, Izeh (Wheat)			20	63	900	•	1,232,205	1,288,499
•	Ali Bandeh to Dehdaz, Izeh (Wheat)	1,449		20	580	900	521,640	11,418,120	11,939,750
		483	2.00	20	48	900	43,470	951,510	994,980
	Cham to Dehdaz, Izeh (Wheat)	2,058	17.00	20	1,749	900	1,574,049	34,454,177	36,028,226
	Cham to Dehdaz, Izeh (Wheat)	6,926	15.00	. 20	5,195	900	4,675,199	102,334,901	107,010,099

Manage				\$		With Proj	ect		
Master Plan Area	Сонтсе	Number of - Vehicle	Distance (kun)	Speed (km/hr)	Operation Hours (hr)	Expenditure (RIs /hr)	Expenditure of Driving (RIs.)	Wage & Salary (RIs.)	Total Expenditure (Ris.)
Vastegan	Kornak Sofla to Bourjen, Sharekord (Wheat)	3,735	2.50	60	<u> </u>	2700	420,147	3,065,517	3,485,664
	Kornak Sofla, Nasir Abad to Bourjen, Sharekord (Wheat)	3,735	5.00	60				6,131,034	6,971,328
	Nasir Ahad to Bourjen, Sharekord (Wheat)	3,735	7.50	. 60		2700	•	9,196,551	10,456,992
	Total		1:111						20,913,984
Bazoft	Tabarak Sofia to Farsan (Wheat)	5,404	3.00	60	270	2700	729,540	5,322,940	6,052,480
	Tabarak Sofia to Farsan (Walnuts)	2,400	3.00	60	120	2700	T	2,364,000	2,688,000
E .	Tabarak Sofla to Farsan (Milk)	3,650	3.00	. 60				3,595,250	4,088,000
	Tabarak Sofia to Farsan (Fish)	3,650	3.50	60	213	2700	574,875	4,194,458	4,769,333
	Tabarak Olya to Farsan (Wheat)	4,914	3.00	60				4,840,290	5,503,680
	Tabarak Olya to Farsan (Walnuts)	2,400	3.00	60	10 to 10 to 20 to		in earlier of a con-	2,364,000	2,688,000
	Tabarak Olya to Farsan (Fish)	3,650	3.00	60			44.4	3,595,250	4,088,000
	Gale Tabarak (Wheat)	1,246	4.50	60	Action 1885	2700		1,840,965	2,093,280
."- 1.	River side to Farsaan (Wheat)	2,124	2.00	60		2700	100	1,394,891	1,586,069
Paris de la constante de la co	River side to Farsaan (Whéat)	770	2.00	60				505,633	574,93
	Total								_ 14,131,776
Sarbaz	Noor Abad to Semirom, Estahan (Apple)	51,200	4.50	60	3,840	2700	10,368,000	75,648,000	86,016,00
	Noor Abad to Semirom, Estahan (Apple)	80,000	1.75	60	4 4 5			45,966,667	52,266,66
	Sarbaz to Semirom, Esfahan (Apple)	188,800	3.50	60				216,962,667	246,698,66
	Sarbaz to Semirom, Esfahan (Milk)	3,650	2.25	60		2.4		2,696,438	3,066,00
11 1000	Sarbaz to Semirom, Esfahan (Milk)	3,650	2.25	60				2,696,438	3,066,00
	Sarbaz to Seminom, Esfahan (Fish)	3,650	2.25	60	and the second			2,696,438	3,066,00
1 2 2	Farm to Telmohamad (Apple)	106,400	2.00	60	1000			69,869,333	79,445,33
1. 1. 1	Telmohamad to Yasuj (Apple)	8,640	17.00	60				48,225,600	54,835,20
200	Deh Bozorg to Yasuj (Apple)	8,640	17.00	60				48,225,600	54,835,20
1.1	Kahangan to Yasuj (Apple)	8,640	17.00	60				48,225,600	54,835,20
ST - 1	Total								638,130,26
ang Sorkh	Farm to Tangsorkh (Apple)	8,800	1.25	60	163	2700	495,000	3,611,667	4,106,66
	Farm to Tangsorkh (Wheat)	790	1.25	. 60				324,393	368,85
	Farm to Tangsorkh (Apple)	19,200	2.00	60				12,608,000	14,336,00
	Farm to Tangsorkh (Wheat)	4,199	2.00	60				2,757,343	3,135,25
	Farm to Tangsorkh (Wheat)	3,162	1.00	60	100			1,038,059	1,180,33
	Tangsorkh to Yasuj (Apple)	14,400	3.25	60		- 11		15,366,000	17,472,00
	Tangsorkh to Yasuj (Horticultural Crops)	7,200	3.25	60	4 - 1		* * * * * * * * * * * * * * * * * * *	7,683,000	8,736,00
	Tangsorkh to Yasuj (Fish)	3,650	3.25	60				3,894,854	4,428,66
	Total	3,030	3.20	~		-100	330,013	30301	_ 53,763,77
Zeras ·	Zeras to Dehdaz, Izeh (Wheat)	2,019	2.00	60	67	2700	181,705	1,325,771	1,507,47
3.1 <b>4.3</b>	Sebalutak to Dehdaz, İzeh (Wheat)	715	1.75	60		2700		410,735	467,02
	Ali Bandeh to Dehdaz, Izeh (Wheat)	1,449	8.00	60				April 1985	
	Ali Bandeh to Dehdaz, Izeh (Wheat)			∞ 60		200	- A - A - A	3,806,040	4,327,68
-	Cham to Dehdaz, Izeh (Wheat)	483	200					317,170	360,64
		2,058	17.00	60	4.4			11,484,726	13,058,77
	Chatn to Dehdaz, Izeh (Wheat)	6,926	15.00	60	1,732	2700	4,675,199	34,111,634	38,786,83
	Total			<u> </u>				1	58,508,43

					•
Table L-18-1 Value of Output (K4-1-9 Vastegan)		10.2			(1,000Rls.)
Table 17-10-1 Value of Output (14-1-9 Value an)		Finan	rial	Econo	
Project Facility	Q'ty	Unit Price	Value of Output	Unit Price	Value of Output
7. Divercification to Milk Cow		AND THE PROPERTY OF THE PARTY O	**************************************	<del></del>	<u> </u>
Collecting and distribution facilities for milk	1	2,263,000	2,263,000	2,127,950	2,127,950
Sub-total	*	2,100,000		2,127,550	
			2,263,000	· · · · · · · · · · · · · · · · · · ·	2,127,950
10. Establishment of Cooperative	-				. The same
Groups and cooperatives for handicraft	4	60,000	240,000	56,400	225,600
Multi-purpose Training Facilities	. 4	0	0	. 0	C
Groups and cooperatives for milk processing facilities	2	511,000	1,022,000	480,340	960,680
Sub-total Sub-total			1,262,000		1,186,280
Total			3,525,000		3,314,230
	2			•	
Table L-18-2 Value of Output (K5-19a Chaman Goli-Bazoft)					(1,000Ris.)
Partie.	O.L.	Finan		Есон	
Project Facility	Q'ty	Unit Price	Value of	Unit Price	Value of
8. Fish Colture Promotion			Output		Output
Fish culture production	1	3,400,000	3,400,000	3,196,000	3,196,000
Sub-total		2,100,000	3,400,000	2,21 3,000	3,196,000
9. Divercification to Milk Cow	•		2,400,000		-,,,,,,,,,
Collecting and distribution facilities for milk	1	2,263,000	2,263,000	2,127,950	2,127,950
Sub-total	_	<b>-,,</b>	2,263,000	_,,,,,,,,	2,127,950
12. Establishment of Cooperative	<u> </u>				,
Groups and cooperatives for handicraft	1	60,000	60,000	56,400	56,400
Multi-purpose Training Facilities	7	0	0	0	
Groups and cooperatives for milk processing facilities	4	511,000	2,044,000	480,340	1,921,360
Sub-total .			2,104,000		1,977,76
Total		·	7,767,000	1 1	7,301,710
	· · · · · · · · · · · · · · · · · · ·				<del></del>
Table L-18-3 Value of Output (K7-0-19-1 Sarbaz)	. :				(1,000Rls.)
		Finan	cial	Econ	
Project Facility	Q'ty	Unit Price	Value of	Unit Price	Value of
		Omerice	Output	Out Tice	Output
7. Collecting and Grading Center of Apple					
Apple collecting & grading facilities (large)	. 3	3,110,400	9,331,200	2,923,780	8,771,340
Sub-total			9,331,200		8,771,340
8. Divercification to Milk Cow					
Collecting and distribution facilities for milk	1	2,263,000	2,263,000	2,127,950	2,127,950
Sub-total			2,263,000		2,127,950
11. Establishment of Cooperative					
Groups and cooperatives for handicraft	1	60,000	60,000	56,400	56,400
Multi-purpose Training Facilities	8	0	0	0	1 001 00
Groups and cooperatives for milk processing facilities	4	511,000	2,044,000	480,340	1,921,360
Sub-total			2,104,000		1,977,760
Total			13,698,200		12,877,050

Table L-	18-4 Value of Output (K7-48 Tang Sorkh)					(1,000Rls.)
			Finan	cial	Есог	omic
Project	Facility	O'ty	Unit Price	Value of Output	Unit Price	Value of Output
6. Collec	ting and Grading Center of Apples and Vegetable					
	Apple collecting & grading facilities (small)	1	940,800	940,800	884,350	884,350
	Horticultural crops collecting and grading facilities	1	381,600	381,600	358,700	358,700
+ ±	Sub-total		and the second	1,322,400		1,243,050
9. Establ	ishment of Cooperative			4 14		1.4
	Multi-purpose Training Facilities	1	0	0	0	0
	Sub-total			0		0
	Total			1,322,400		1,243,050
Table L-	18-5 Value of Output (K8-28 Zeras)					(1,000Rls.)
		***************************************	Finan	cial	Economic	
Project	Facility	Q'ty	Unit Price	Value of Output	Unit Price	Value of Output
5. Milk I	Processing and Marketing					
	Groups and cooperatives for milk processing facilities	2	511,000	1,022,000	480,340	960,680
	Sub-total			1,022,000		960,680
7. Establ	ishment of Cooperative					
* -	Groups and cooperatives for handicraft	4	60,000	240,000	56,400	225,600
	Multi-purpose Training Facilities	4	0	0	0	0

1,262,000

Sub-total Total

· · · · · · · · · · · · · · · · · · ·								
Table L-18-6 Value of Output for Handid	craft Facility	· ·	بجمين الكال المستدونات					
Work Item	Spec	Q'ty	Unit	Finan		Conversion	Econ	
WORK WELL	. Open	<b></b>	O LIN	Unit Price	Amount (Rial)	Factor	Unit Price	Amount (Rial)
Canad (Hadirantal manda a andida)	Maal Justin	. 10	nion/man	3,000,000 Ris.	30,000,000	0.94	7 920 000 51.	ማጀ ማብስ ሰብ፡
Carpet (Horizontal weaving machine)     Carpet (Horizontal weaving machine)			piece/year piece/year	3,000,000 Rls.	30,000,000	0.94	2,820,000 Rls. 2,820,000 Rls.	28,200,000 28,200,000
			4.		e Visit			
l'otal					60,000,000	<del></del>		56,400,000
Rounded Total		+ 1			60,000,000			56,400,00
71. 710 77.		95 55			·			
Fable L-18-7 Value of Output for Multi-	purpose trami	ng racimy		Finan	cial	·	Econ	omic .
Work Item	Spec	Q'ty	Unit	Unit Price	Amount	Conversion	Unit Price	Amount
					(Rial)	Factor		(Rial)
			•			•		
(none, only for training & education t	o villagers)				1			
rotal	<del></del>			· · · · · · · · · · · · · · · · · · ·	0		<del>i</del>	(
Rounded Total					. 0			
Table L-18-8 Value of Output for Milk P	I	lie.						
Table 1710-0 Value of Output for Milk F	Tocessing Fact	in y		Finan	cial	·····	Econ	omic
Work Item	Spec	Q¥y	Unit	Unit Price	Amount (Rial)	Conversion Factor	Unit Price	Amount (Rial)
(raw milk: 1t/day = 10litre/day/head×100	head)	(365days)						•
1. Yorgult	200kg/day	73,000	kg/year	1,500 Rls.	109,500,000	0.94	1,410 RIs.	102,930,00
2. Butter	50kg/day	18,250	kg/year	20,000 RIs.	365,000,000	0.94	18,800 RIs.	343,100,00
3. Kashk	50kg/day	18,250	kg/year	2,000 RIs.	36,500,000	0.94	1,880 Rls.	34,310,00
l'otal		1			511,000,000			480,340,000
Rounded Total					511,000,000			480,340,00
Table L-18-9 Value of Output Collection	and Niebilouti	on Facility fo	w Mille					:
120 to 170-3 value of Output Conection	and Distributi	on racinty to	d Milk	Finan	cial		Econ	omic
Work Item	Spec	Qty	Unit	Unit Price	Amount	Conversion Factor	Unit Price	Amount
	47 No. 16	1			(Rid)	14001		(Rial)
(raw milk: 5t/day = 10litre/day/headx500		(365days)		*				
1. Milk	5000kg/day	1,825,000	kg/year	1,240 Rb.	2,263,000,000	0.94	1,166 Rls.	2,127,950,00
			:*		2.4			
								2,127,950,000
Total					2,263,000,000			
Total Rounded Tatal					2,263,000,000			2,127,950,00
Rounded Total	Callage Benda	4						2,127,950,00
Rounded Total	Culture Produc	±tio <u>z</u>		Finan	2,263,000,000		Ecor	
	Culture Produc Spec	⊐fioz Q⁴ty	Unit	Finan Unit Price	2,263,000,000	Conversion	Econ Unit Price	2,127,950,00 omic Amount
Rounded Total  Table L-18-10 Value of Output for Fish			Unit		2,263,000,000	Conversion Factor		omic
Rounded Total  Table L-18-10 Value of Output for Fish  Work Item	Spec	Q'ty	<u> </u>	Unit Price	2,263,000,000 cial Amount (Rial)	Factor	Unit Price	omic Amouat (Rial)
Rounded Total  Table L-18-10 Value of Output for Fish			Unit kg/year		2,263,000,000 cial Amount			omic Amouat (Rial)
Rounded Total  Table L-18-10 Value of Output for Fish  Work Item	Spec	Q'ty	<u> </u>	Unit Price	2,263,000,000 cial Amount (Rial)	Factor	Unit Price	omic Amoust (Rial)
Rounded Total  Table L-18-10 Value of Output for Fish  Work Item	Spec	Q'ty	<u> </u>	Unit Price	2,263,000,000 cial Amount (Rial)	Factor	Unit Price	Amount

Value of Output for Apple		

WOOD THE BOOK COMMON THE PARTY SAME	MATERIAL:			Qty	Unit	Fina	ıncial		Economic	
Work	Item		Spec			Unit Price	Amount (Rial)	Conversion Factor	Unit Price	Amount (Rial)
(raw apple: 2400t/yes	ar)			(Total: 2,16	0,000kg =	90% of raw apple)				
1. Graded apple	i		Exellent (20%)	432,000	kg/year	1,800 Rks	777,600,000	0.94	1,692 Rls.	730,944,000
			Class 1 (50%)	1,080,000	kg/year	1,600 RIs	1,728,000,000	0.94	1,504 RIs.	1,624,320,000
1000		1. The second	Class 2 (20%)	432,000	kg/year	1,400 Ris	604,800,000	0.94	1,316 RIs.	568,512,000
			Loss (10%)	216,000	kg/year					
Total	<del></del>	<del></del>					3,110,400,000			2,923,776,000
Rounded Tot	tal	1.		**			3,110,400,000			2,923,780,000

Table L-18-12 Value of Output for Apple Collecting & Grading Facility (Small)

	1. 1			Financi	al	_	Есоло	mic
Work Item	Spec	Qʻty	Unit	Unit Price	Amount (Rial)	Conversion =	Unit Price	Amount (Rial)
(raw apple: 800t/year)	(	Total: 720,	000kg = 90	% of raw apple)				
1. Graded apple	Exellent (20%)	114,000	kg/year	1,800 RIs	205,200,000	0.94	1,692 Rb	192,888,000
	Class 1 (50%)	360,000	kg/year	1,600 RIs	576,000,000	0.94	1,504 RIs.	541,440,000
	Class 2 (20%)	114,000	kg/year	1,400 RIs.	159,600,000	0.94	1,316 RIs.	150,024,000
	Loss (10%)	72,000	kg/year					
Total					940,800,000			884,352,000
Rounded Total					940,800,000			884,350,000

Table L-18-13 Value of Output for Horticultural Crops Collecting and Grading Facility

					Fm	ancial		Economic		
Work Item		Spec	Qty	Unit	Unit Price	Amount (Rial)	Conversion Factor	Unit Price	Amount (Rial)	
(raw vegetable: 400t/year)		(	(Total: 360,	000 = 90%	of raw vegetable)					
1. Cleaned vegetables	3.4	Exellent (20%)	72,000	kg/year	1,300 RIs.	93,600,000	0.94	1,222 Rb.	87,984,000	
		Class I (50%)	180,000	kg/year	1,200 Rb.	216,000,000	0.94	1,128 Rb.	203,040,000	
		Class 2 (20%)	72,000	kg/year	1,000 Rls.	72,000,000	0.94	940 Rls.	67,680,000	
		Loss (10%)	36,000	kg/year						
Total Rounded Total						381,600,000 381,600,000			358,704,000 358,700,000	

Table L-19 Result of Financial and Economic Analysis (K4-1-9 Vastegan)

	0RI	
 	UIL	

D	Fi	nancial Analy:	sis	Economic Analysis			
Project	NPV	B/C	FIRR	NPV	B/C	EIRR	
(1) Construction of check dam		-	<b>-</b>	-1,280,354	0.42	1.9%	
(2) River improvement	•	 	-	-2,153,616	0.37	#NUM!	
(3) Rangeland vegetation improvement	_	-	-	562,841	13.21	341.8%	
(4) Orchard terracing	6,655,403	6.68	93.0%	6,090,412	6.53	91.5%	
(5) Groundwater monitoring	Intangible	Intangible	Intangible	Intangible	Intangible	Intangible	
(6) Increase of irrigated agriculture	308,029	2.13	92.1%	244,927	1.96	83.5%	
(7) Diversification to milk cow	1,198,541	1.17	143.9%	1,194,769	1.18	162.5%	
(8) Rural water supply improvement	-154,958	0.58	#DIV/0!	-167,670	0.52	#DIV/0!	
(9) Rural road improvement	-293,894	0.71	5.8%	-350,114	0.63	4.8%	
(10) Establishment of cooperative	1,508,183	1.25	80.2%	1,862,699	1.36	93.9%	
(11) Community enhancement	Intangible	Intangible	Intangible	Intangible	Intangible	Intangible	
Total	9,082,776	1.55	57.4%	4,710,051	1.22	23.5%	

		1 Ofchard terr	acing (Tillanci	ai miaiysis) (	K4-1-9 Vasteg	all)	(1,000Rls.)				
•	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	l = 1 Cost	2% Benefit	N.P.V	
1	2002	181,450	0	181,450	0	-181,450	0.8929	162,017	0	-162,01	
2	2003	181,450	0	181,450	0	-181,450		144,652	0	-144,65	
,	2004	181,450	0	181,450	0	-181,450	0.7118	129,156	Ō	-129,15	
ļ	2005	181,450	73,400	254,850		1,096,750	0.6355	161,957	858,942	696,98	
	2006	181,450	73,400	254,850	1,351,600	1,096,750	0.5674	144,602	766,898	622,29	
5	2007	181,450	73,400	254,850	1,351,600	1,096,750	0.5066	129,107	684,721	555,61	
•	2008	0	73,400	73,400	1,351,600	1,278,200	0.4523	33,199	611,329	578,13	
	2009	ő	73,400	73,400	1,351,600	1,278,200	0.4039	29,646	545,911	516,26	
· }	2010	ő	73,400	73,400	1,351,600	1,278,200	0.3606	26,468	487,387	460,91	
0	2011	ŏ	73,400	73,400		1,278,200	0.3220	23,635	435,215	411,58	
1	2012	ő	73,400	73,400	1,351,600	1,278,200	0.2875	21,103	388,585	367,48	
2	2013	0	73,400	73,400	1,351,600	1,278,200	0.2567	18,842	346,956	328,11	
3	2013	0	73,400	73,400	1,351,600	1,278,200	0.2307	16,823	309,787	292,96	
4	2015	0	73,400	73,400	1,351,600	1,278,200		15,018	276,537		
.5	2016	0	73,400				0.1827			261,51	
.6	2017	0	73,400	73,400	1,351,600	1,278,200		13,410	246,937	233,52	
7	2017			73,400	1,351,600	1,278,200	0.1631	11,972	220,446	208,47	
8	2019	0	73,400	73,400	1,351,600	1,278,200	0.1456	10,687	196,793	186,10	
	2019	0	73,400	73,400	1,351,600	1,278,200	0.1300	9,542	175,708	166,16	
9		. 0	73,400	73,400	1,351,600	1,278,200		8,522	156,921	148,39	
0	2021		73,400	73,400	1,351,600	1,278,200	0.1037	7,612	140,161	132,54	
1	2022	÷	73,400	73,400	1,351,600	1,278,200	0.0926	6,797	125,158	118,36	
2	2023	1.	73,400	73,400	1,351,600	1,278,200	0.0826	6,063	111,642	105,57	
3	2024	A contract	73,400	73,400		1,278,200	0.0738	5,417	99,748	94,33	
4	2025	100	73,400	73,400	1,351,600	1,278,200		4,837	89,070	84,23	
5	2026		73,400	73,400	1,351,600	1,278,200	0.0588	4,316	79,474	75,15	
26	2027		73,400	73,400	1,351,600	1,278,200	0.0525	3,854	70,959	67,10	
27	2028		73,400	73,400	1,351,600	1,278,200	0.0469	3,442	63,390	59,94	
28	2029		73,400	73,400	1,351,600	1,278,200	0.0419	3,075	56,632	53,55	
9	2030		73,400	73,400	1,351,600	1,278,200	0.0374	2,745	50,550	47,80	
30	2031		73,400	73,400	1,351,600	1,278,200	0.0334	2,452	45,143	42,69	
31	2032		73,400	73,400	1,351,600	1,278,200	0.0298	2,187	40,278	38,09	
12	2033		73,400	73,400	1,351,600	1,278,200	0.0266	1,952	35,953	34,00	
3	2034		73,400	73,400	1,351,600	1,278,200	0.0238	1,747	32,168	30,42	
4	2035	•	73,400	73,400	1,351,600	1,278,200	0.0212	1,556	28,654	27,09	
5	2036		73,400	73,400	1,351,600	1,278,200	0.0189	1,387	25,545	24,15	
6	2037		73,400	73,400	1,351,600	1,278,200	0.0169	1,240	22,842	21,60	
7	2038					•					
8	2039				*			1.5			
9	2040	:		٠							
Ю	2041						•				
1	2042						1.			-	
12	2043			•							
13	2044					25					
14	2045										
<b>1</b> 5	2046					•					
<b>1</b> 6	2047				1	-	100	1 N N N N N N N N N N N N N N N N N N N		1	
47	2048									1000	
48	2049								Vojetje i desar		
		1,088,700	2,422,200	3,510,900	44,602,800	41,091,900		1,171,037	7,826,440	6,655,40	

N.P.V=	6,655,403
B/C≂	6.68
FIRR=	93.0%

			,		Total Benefit	<del> </del>		I = 1	2%	(1,000Ris.)
	Year						Discount Rate	Cost	Benefit	N.P.V
1	2002	8,926	. 0	8,926		-8,926		7,970	0	-7,970
2	2003	8,922	0	8,922		-8,922		7,113	. 0	-7,113
3	2004	8,922	. 0	8,922		-8,922		6,351	0	-6,351
4	2005	8,922	35,200	44,122		54,303		28,040	62,549	34,509
5	2006	8,922	35,200	44,122		54,303		25,035	55,846	30,811
6	2007	8,922	35,200	44,122		54,303		22,352	49,862	27,510
7	2008	8,922	35,200	44,122		54,303		19,956	44,518	24,562
8	2009	8,922	35,200	44,122		54,303		17,821	39,754	21,933
9	2010	8,922	35,200	44,122		54,303		15,910	35,492	19,582
10	2011	8,922	35,200	44,122		54,303		14,207	31,693	17,486
11	2012	8,922	35,200	44,122		54,303		12,685	28,297	15,612
12	2013	8,922	35,200	44,122		54,303		11,326	25,266	13,940
13	2014	8,922	35,200	44,122		54,303		10,113	22,559	12,446
14	2015	8,922	35,200	44,122		54,303		9,027	20,138	11,111
15	2016	8,922	35,200	44,122		54,303		8,061	17,982	9,921
16	2017	8,922	35,200	44,122		54,303		7,196	16,053	8,857
· 17	2018	8,922	35,200	44,122		54,303		6,424	14,331	7,907
18	2019	8,922	35,200	44,122		54,303		5,736	12,795	7,059
19	2020	0	35,200	35,200		63,225		4,087	11,427	7,340
20	2021		35,200	35,200		63,225		3,650	10,207	6,557
21	2022		35,200	35,200		63,225		3,260	9,114	5,854
22	2023		35,200	35,200		63,225		2,908	8,130	5,222
23	2024		35,200	35,200		63,225		2,598	7,264	4,666
24	2025	111	35,200	35,200		63,225		2,320	6,486	4,166
25	2026		35,200	35,200		63,225		2,070	5,787	3,717
26	2027		35,200	35,200		63,225	0.0525	1,848	5,167	3,319
27	2028	da la la	35,200	35,200		63,225	0.0469	1,651	4,616	2,965
28	2029		35,200	35,200		63,225	0.0419	1,475	4,124	2,649
29	2030		35,200	35,200		63,225		1,316	3,681	2,365
30	2031		35,200	35,200		63,225	0.0334	1,176	3,287	2,111
31	2032		35,200	35,200		63,225		1,049	2,933	1,884
32	2033		35,200	35,200		63,225	0.0266	936	2,618	1,682
33	2034	1	35,200	35,200		63,225		838	2,343	1,505
34	2035	•	35,200	35,200		63,225		746	2,087	1,341
35	2036		35,200	35,200		63,225		665	1,860	1,195
36	2037		35,200	35,200		63,225	0.0169	595	1,663	1,068
37	2038		35,200	35,200		63,225	0.0151	532	1,486	954
38	2039		35,200	35,200		63,225	0.0135	475	1,329	854
39	2040		35,200	35,200	98,425	63,225	0.0120	422	1,181	759
40	2041		35,200	35,200		63,225	0.0107	377	1,053	676
41	2042		35,200	35,200		63,225	0.0096	338	945	607
42	2043		35,200	35,200		63,225	0.0086	303	846	543
43	2044		35,200	35,200		63,225	0.0076	268	748	480
44	2045		35,200	35,200		63,225	0.0068	239	669	430
45	2046		35,200	35,200		63,225	0.0061	215	600	385
46	2047		35,200	35,200		63,225	0.0054	190	531	341
47	2048		35,200	35,200		63,225	0.0049	172	482	310
48	2049		35,200	35,200		63,225	0.0043	151	423	272
		160,600	1,584,000	1,744,600	4,429,125	2,684,525		272,193	580,222	308,029

N.P.V=	308,029
B/C=	2.13
FIRR=	92.1%

Table L-19-3 Diversification to Milk Cow (Financial	I Analysis) (K4-1-9 Vastegan)	)
---	-------------------------------	---

- /1	,000	1121	٠,
1.2	, vvv	'Z U.	ъ,

	*7.		001/2					I = 1	2%	(1,005103)
	Year	Project Cost	U&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	0	0	0	0	0		0	0	0
2	2003	. 0	0	. 0	. 0	0	0,7972	. 0	0	0
3	2004	0	0	. 0	0	0	0.7118	. 0	0	. 0
4	2005	. 0	0	. 0	0	0	0.6355	0	. 0	. 0
5	2006	• . 0	. 0	0	. 0	. 0	0.5674	. 0	0	. 0
6	2007	133,840	373,626	507,466	452,600	-54,866	0.5066	257,082	229,287	-27,795
. 7	2008	133,840	747,252	881,092		24,108	0.4523	398,518	409,422	10,904
8	2009	133,840	1,120,878	1,254,718		103,082		506,781	548,415	41,634
9	2010	133,840	1,494,504	1,628,344		182,056		587,181	652,830	65,649
10	2011	133,840	1,868,130	2,001,970		261,030		644,634	728,686	84,052
11	2012	0	1,868,130	1,868,130		394,870		537,087	650,613	113,526
12		0		1,868,130		394,870		479,549	580,912	101,363
13		0	1,868,130	1,868,130		394,870		428,175	518,680	90,505
14		0	1,868,130	1,868,130		394,870		382,219	463,010	80,791
15	2016	0	1,868,130	1,868,130		394,870	0.1827	341,307	413,450	72,143
16		o o	1,868,130	1,868,130		394,870	0.1631	304,692	369,095	64,403
17	2018	0	1,868,130	1,868,130		394,870		272,000	329,493	57,493
18		0	1,868,130	1,868,130		394,870		242,857	294,190	51,333
19		0	1,868,130	1,868,130		394,870		216,890	262,734	45,844
20		•	1,868,130	1,868,130		394,870		193,725	234,673	40,948
21	2022		1,868,130	1,868,130		394,870		172,989	209,554	36,565
22			1,868,130	1,868,130		394,870		154,308	186,924	32,616
23	2024		1,868,130	1,868,130		394,870	0.0320	137,868	167,009	29,141
24		* * *	1,868,130	1,868,130		394,870		123,110	149,132	26,022
25	2026		1,868,130	1,868,130		394,870		109,846	133,064	23,218
26	2027		1,868,130	1,868,130		394,870		98,077	118,808	20,731
27	2028		1,868,130	1,868,130		394,870	4.7	87,615	106,135	18,520
28			1,868,130	1,868,130		394,870		78,275	94,820	16,545
29			1,868,130	1,868,130		394,870		69,868	84,636	14,768
30			1,868,130	1,868,130		394,870	and the second s	62,396	75,584	13,188
31	2032		1,868,130	1,868,130		394,870		55,670	67,437	11,767
32			1,868,130	1,868,130		394,870		49,692	60,196	10,504
33			1,868,130	1,868,130		. 394,870		44,461	53,859	9,398
34			1,868,130	1,868,130		394,870		39,604	33,839 47,976	8,372
35			1,868,130	1,868,130		394,870		35,308	42,771	7,463
36			1,868,130	1,868,130		394,870		33,308	38,245	6,674
37			1,868,130	1,868,130		394,870		28,209	36,243 34,171	5,962
38			1,868,130	1,868,130		394,870	and the second s	25,220	30,551	5,331
39			1,868,130	1,868,130		394,870	0.0133	22,418	27,156	4,738
- 40			1,868,130	1,868,130		394,870 394,870		19,989	24,214	4,730
41			1,000,130	1,000,130	2,203,000	J74,070	0.0107	17,707	24,214	4,223
42						F				
43								•		
43 44					* * * * * * * * * * * * * * * * * * * *					
45			*				e e La companya di santana			
			*							
46				1						
47 48			4.				e de la companya del companya de la companya del companya de la co			e e jago de el
40	2049	640,300	61 649 200	62 247 400	74 670 000	12 261 510	· · · · · · · · · · · · · · · · · · ·	7 120 101	0.427.720	1 100 541
		669,200	61,648,290	62,317,490	74,679,000	12,361,510		7,239,191	8,437,732	1,198,541

N.P.V=	1,198,541
B/C=	1.17
FIRR=	143.9%

2         2003         8,561         0         8,561         0         -8,261         0.7972         6,825         0         -6,825           4         2005         8,561         46,800         55,361         32,740         -22,621         0.6355         35,182         20,806         -14,376           5         2006         8,561         46,800         55,361         32,740         -22,621         0.5674         31,412         18,577         -12,835           6         2007         8,561         46,800         55,361         32,740         -22,621         0.5066         28,041         16,586         11,488         77         -12,883           7         2008         8,561         46,800         55,361         32,740         -22,621         0.4639         22,001         14,888         -10,232           9         2010         8,561         46,800         55,361         32,740         -22,621         0.3220         17,826         10,542         -7,284           10         2011         8,561         46,800         55,361         32,740         -22,621         0.2875         15,916         9,413         -5,501           12         2013         8,561	1 at	OIG LATA.	-T ICHIAI WILLCI	supply (Financ	an Fularysis)	(ICT-I-> Vasio	<u> </u>	<del></del>	· · · · · · · · · · · · · · · · · · ·	201	(1,000RIS.)
2002		Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate		~	N.P.V
2         2003         8,561         0         8,561         0         -8,261         0         -8,252         0         -6,825         0         -6,825           4         2005         8,561         46,800         55,361         32,740         -22,621         0.6355         35,182         20,806         -14,376           5         2006         8,561         46,800         55,361         32,740         -22,621         0.5664         31,412         18,577         -12,835           6         2007         8,561         46,800         55,361         32,740         -22,621         0.5066         28,046         16,636         11,284           7         2008         8,561         46,800         55,361         32,740         -22,621         0.4639         25,040         14,808         10,229           9         2010         8,561         46,800         55,361         32,740         -22,621         0.3206         19,943         11,806         8,157           10         2011         8,561         46,800         55,361         32,740         -22,621         0.2257         15,916         9,413         -6,503           12         2013         8,561         46,8	1	2002	8,563	0	8,563	0	-8,563			<del></del>	-7,646
32         2004         8,561         46,800         55,361         32,740         -22,621         0.6355         39,406         23,304         -16,102           5         2006         8,561         46,800         55,361         32,740         -22,621         0.5674         31,412         18,577         -12,835           6         2007         8,561         46,800         55,361         32,740         -22,621         0.5664         31,412         18,577         -12,835           7         2008         8,561         46,800         55,361         32,740         -22,621         0.5066         28,046         16,586         -11,460           8         2009         8,561         46,800         55,361         32,740         -22,621         0.4039         22,300         13,224         -9,135           10         2011         8,561         46,800         55,361         32,740         -22,621         0.3200         17,826         10,542         -7,284           11         2012         8,561         46,800         55,361         32,740         -22,621         0.2875         14,211         4,600         55,361         32,740         -22,621         0.2967         14,211         4,600 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
4         2005         8,561         46,800         55,361         32,740         -22,621         0.6355         35,182         20,806         -14,376           6         2007         8,561         46,800         55,361         32,740         -22,621         0.5066         28,046         16,586         -11,460           7         2008         8,561         46,800         55,361         32,740         -22,621         0.4039         22,040         14,808         -10,229           9         2010         8,561         46,800         55,361         32,740         -22,621         0.3066         19,963         11,866         8,157           10         2011         8,561         46,800         55,361         32,740         -22,621         0.3066         19,963         11,866         8,157           10         2011         8,561         46,800         55,361         32,740         -22,621         0.2292         12,689         4,044         5,801           11         2013         8,561         46,800         55,361         32,740         -22,621         0.257         14,211         8,404         5,185           12         2013         8,561         46,800         55,				46,800						23,304	
52         2006         8,561         46,800         55,361         32,740         -22,621         0.5674         31,412         18,577         -12,835           6         2007         8,561         46,800         55,361         32,740         -22,621         0.4523         25,040         14,808         -10,228           8         2009         8,561         46,800         55,361         32,740         -22,621         0.4632         25,040         14,808         10,232           9         2010         8,561         46,800         55,361         32,740         -22,621         0.3906         19,963         11,806         8,131           10         2011         8,561         46,800         55,361         32,740         -22,621         0.3220         17,826         10,542         -7,284           11         2012         8,561         46,800         55,361         32,740         -22,621         0.2875         14,211         8,404         -5,807           13         2014         8,561         46,800         55,361         32,740         -22,621         0.2267         14,211         8,404         -5,807           14         2015         8,561         46,800 <td< td=""><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	4										
6         2007         8,561         46,800         55,361         32,740         -22,621         0.5066         28,046         16,868         11,460           8         2009         8,561         46,800         55,361         32,740         -22,621         0.4623         25,040         14,808         -10,232           8         2009         8,561         46,800         55,361         32,740         -22,621         0.3006         19,963         11,806         8,157           10         2011         8,561         46,800         55,361         32,740         -22,621         0.2320         17826         10,542         -7,284           11         2012         8,561         46,800         55,361         32,740         -22,621         0.2875         15,916         9,413         -6,580           12         2013         8,561         46,800         55,361         32,740         -22,621         0.2292         12,689         7,504         -5,807           14         2015         8,561         46,800         55,361         32,740         -22,621         0.1327         1,327         6,699         4,628           17         2018         8,561         46,800         55,	5										
7         2008         8,561         46,800         55,361         32,740         -22,621         0.4323         25,040         14,808         -10,232           9         2010         8,561         46,800         55,361         32,740         -22,621         0.4039         22,360         13,224         9,136           9         2010         8,561         46,800         55,361         32,740         -22,621         0.3220         17,826         10,542         -7,284           11         2012         8,561         46,800         55,361         32,740         -22,621         0.2567         14,211         8,04         -5,807           12         2013         8,561         46,800         55,361         32,740         -22,621         0.2567         14,211         8,04         -5,807           13         2014         8,561         46,800         55,361         32,740         -22,621         0.0296         13,227         6,699           15         2016         8,561         46,800         55,361         32,740         -22,621         0.1456         8,061         4,767         3,284           19         2020         0         46,800         55,361         32,740 <td>6</td> <td></td>	6										
82         2009         8,561         46,800         55,361         32,740         -22,621         0.4039         22,360         13,224         9,136           10         2011         8,561         46,800         55,361         32,740         -22,621         0.3220         17,826         10,542         7,284           11         2012         8,561         46,800         55,361         32,740         -22,621         0.3220         17,826         10,542         7,284           12         2013         8,561         46,800         55,361         32,740         -22,621         0.2295         15,916         9,413         -6,503           13         2014         8,561         46,800         55,361         32,740         -22,621         0.2292         12,689         7,504         5,181           14         2015         8,561         46,800         55,361         32,740         -22,621         0.1827         10,114         5,982         -4,132           16         2017         8,561         46,800         55,361         32,740         -22,621         0.1631         9,029         5,340         3,689           17         2018         8,561         46,800         55,36	7	2008		•							-10,232
92 2010	8	2009									
10         2011         8,561         46,800         55,361         32,740         -22,621         0.3220         17,826         10,542         -7,284           11         2012         8,561         46,800         55,361         32,740         -22,621         0.2867         14,211         8,404         -5,807           12         2013         8,561         46,800         55,361         32,740         -22,621         0.2292         12,689         7,504         -5,185           13         2014         8,561         46,800         55,361         32,740         -22,621         0.2292         12,689         7,504         -5,185           15         2016         8,561         46,800         55,361         32,740         -22,621         0.1631         9,029         5,340         3,689           16         2017         8,561         46,800         55,361         32,740         -22,621         0.1300         7,197         4,256         -2,941           18         2019         8,561         46,800         55,361         32,740         -14,060         0.1161         5,433         3,395         -1,456           19         2020         0.21         46,800         46,800	9										-8,157
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	2011	8,561	46,800							-7,284
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	2012		46,800			-22,621	0.2875			-6,503
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12	2013	8,561	46,800			-22,621	0.2567			-5,807
14         2015         8,561         46,800         55,361         32,740         -22,621         0.2046         11,327         6,699         -4,628           15         2016         8,561         46,800         55,361         32,740         -22,621         0.1637         10,114         5,982         -4,132           16         2017         8,561         46,800         55,361         32,740         -22,621         0.1456         8,061         4,767         -3,294           18         2019         8,561         46,800         55,361         32,740         -22,621         0.1456         8,061         4,767         -3,224           19         2020         0         46,800         46,800         32,740         -14,060         0.1161         5,433         3,395         -1,482           20         2021         46,800         46,800         32,740         -14,060         0.0137         4,853         3,995         -1,432           21         2022         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,162           23         2024         46,800         46,800         32,740         -14,060         0.0738<	13	2014	8,561	46,800			-22,621	0.2292			
15         2016         8,561         46,800         55,361         32,740         -22,621         0,1827         10,114         5,982         4,132           16         2017         8,561         46,800         55,361         32,740         -22,621         0,1456         8,061         4,680         32,740         -22,621         0,1456         8,061         4,672         3,249           18         2019         8,561         46,800         55,361         32,740         -22,621         0,1300         7,197         4,256         -2,941           19         2020         0         46,800         46,800         32,740         -14,060         0,1037         4,833         3,801         -1,632           20         2021         46,800         46,800         32,740         -14,060         0,0137         4,833         3,851         -1,632           21         2022         46,800         46,800         32,740         -14,060         0,0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0,0826         3,866         2,704         -1,162           22         2025         46,800	14	2015		46,800							
16         2017         8,561         46,800         55,361         32,740         -22,621         0.1631         9,029         5,340         3,689           17         2018         8,561         46,800         55,361         32,740         -22,621         0.1300         7,197         4,256         2.941           19         2020         0         46,800         46,800         32,740         -14,060         0.1161         5,433         3,801         -1,632           20         2021         46,800         46,800         32,740         -14,060         0.1037         4,853         3,305         -1,432           21         2022         46,800         46,800         32,740         -14,060         0.0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0.0659         3,866         2,704         -1,162           23         2024         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925	15	2016		46,800							-4,132
17         2018         8,561         46,800         55,361         32,740         -22,621         0.1456         8,061         4,767         -3,294           18         2019         8,561         46,800         46,800         32,740         -12,060         0.1161         5,433         3,801         1-6,622           20         2021         46,800         46,800         32,740         -14,060         0.0137         4,853         3,395         -1,458           21         2022         46,800         46,800         32,740         -14,060         0.0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,162           23         2024         46,800         46,800         32,740         -14,060         0.0659         3,886         2,704         -14,02           24         2025         46,800         46,800         32,740         -14,060         0.0659         3,884         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0525         2,457         1,719         -738<	16	2017		46,800							
18         2019         8,561         46,800         55,361         32,740         -22,621         0.1300         7,197         4,256         -2,941           19         2020         0         46,800         46,800         32,740         -14,060         0.1161         5,433         3,305         -1,458           21         2022         46,800         46,800         32,740         -14,060         0.0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,162           23         2024         46,800         46,800         32,740         -14,060         0.0859         3,864         2,158         992           25         2026         46,800         46,800         32,740         -14,060         0.0589         3,084         2,158         992           26         2027         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         822           27         2028         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         655 <td>17</td> <td>2018</td> <td>8,561</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-3,294</td>	17	2018	8,561								-3,294
19         2020         0         46,800         32,740         -14,060         0.1161         5,433         3,801         -1,632           20         2021         46,800         46,800         32,740         -14,060         0.1037         4,853         3,395         -1,488           21         2022         46,800         46,800         32,740         -14,060         0.0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,162           23         2024         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         822           26         2027         46,800         46,800         32,740         -14,060         0.0499         2,195         1,536         -659           28         2029         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -589           29         2	18	2019	8,561	46,800							-2,941
20         2021         46,800         46,800         32,740         -14,060         0.1037         4,853         3,395         -1,458           21         2022         46,800         46,800         32,740         -14,060         0.0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,102           23         2024         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         9202           25         2026         46,800         46,800         32,740         -14,060         0.0528         2,752         1,925         827           26         2027         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         659           28         2029         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         659           28         2029         46,800         46,800         32,740         -14,060         0.0374         1,750         1,224         526           20         2	19	2020	0	46,800							-1,632
21         2022         46,800         46,800         32,740         -14,060         0.0926         4,334         3,032         -1,302           22         2023         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,162           24         2025         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         -827           26         2027         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         -827           27         2028         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           28         2029         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -588           29         2030         46,800         46,800         32,740         -14,060         0.0374         1,750         1,224         -526           31 <td< td=""><td>20</td><td>2021</td><td></td><td></td><td>46,800</td><td></td><td></td><td></td><td></td><td></td><td>-1,458</td></td<>	20	2021			46,800						-1,458
22         2023         46,800         46,800         32,740         -14,060         0.0826         3,866         2,704         -1,162           23         2024         46,800         46,800         32,740         -14,060         0.0738         3,454         2,416         -1,038           24         2025         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         -827           26         2027         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           27         2028         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -586           28         2029         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           28         2029         46,800         46,800         32,740         -14,060         0.0334         1,563         1,094         466           31	21	2022		46,800	46,800	32,740	-14,060				-1,302
23         2024         46,800         46,800         32,740         -14,060         0.0738         3,454         2,416         -1,038           24         2025         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         -827           26         2027         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           28         2029         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -586           29         2030         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -586           29         2030         46,800         46,800         32,740         -14,060         0.0374         1,750         1,224         -526           31         2032         46,800         46,800         32,740         -14,060         0.0298         1,395         976         415           32         2033	22	2023		46,800	46,800	32,740	-14,060	0.0826			-1,162
24         2025         46,800         46,800         32,740         -14,060         0.0659         3,084         2,158         -926           25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         -827           26         2027         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           27         2028         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           28         2029         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -580           29         2030         46,800         46,800         32,740         -14,060         0.0374         1,750         1,224         -526           30         2031         46,800         46,800         32,740         -14,060         0.0334         1,563         1,094         -469           31         2032         46,800         46,800         32,740         -14,060         0.0298         1,395         976         419           32         2033 </td <td>23</td> <td>2024</td> <td></td> <td>46,800</td> <td>46,800</td> <td>32,740</td> <td>-14,060</td> <td>0.0738</td> <td></td> <td></td> <td>-1,038</td>	23	2024		46,800	46,800	32,740	-14,060	0.0738			-1,038
25         2026         46,800         46,800         32,740         -14,060         0.0588         2,752         1,925         -827           26         2027         46,800         46,800         32,740         -14,060         0.0525         2,457         1,719         -738           27         2028         46,800         46,800         32,740         -14,060         0.0469         2,195         1,536         -659           28         2029         46,800         46,800         32,740         -14,060         0.0419         1,961         1,372         -588           29         2030         46,800         46,800         32,740         -14,060         0.0374         1,750         1,224         -526           30         2031         46,800         46,800         32,740         -14,060         0.0334         1,563         1,094         -465           31         2032         46,800         46,800         32,740         -14,060         0.0288         1,395         976         -415           32         2033         46,800         46,800         32,740         -14,060         0.0266         1,245         871         -374           33         2034 <td>24</td> <td>2025</td> <td></td> <td>46,800</td> <td>46,800</td> <td>32,740</td> <td>-14,060</td> <td>0.0659</td> <td>3,084</td> <td>2,158</td> <td>-926</td>	24	2025		46,800	46,800	32,740	-14,060	0.0659	3,084	2,158	-926
27       2028       46,800       46,800       32,740       -14,060       0.0469       2,195       1,536       -659         28       2029       46,800       46,800       32,740       -14,060       0.0419       1,961       1,372       -589         29       2030       46,800       46,800       32,740       -14,060       0.0374       1,750       1,224       -526         30       2031       46,800       46,800       32,740       -14,060       0.0334       1,563       1,094       -469         31       2032       46,800       46,800       32,740       -14,060       0.0298       1,395       976       -419         32       2033       46,800       46,800       32,740       -14,060       0.0266       1,245       871       -374         33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619 <t< td=""><td>25</td><td>2026</td><td></td><td>46,800</td><td>46,800</td><td>32,740</td><td>-14,060</td><td>0.0588</td><td></td><td>1,925</td><td>-827</td></t<>	25	2026		46,800	46,800	32,740	-14,060	0.0588		1,925	-827
28       2029       46,800       46,800       32,740       -14,060       0.0419       1,961       1,372       -589         29       2030       46,800       46,800       32,740       -14,060       0.0374       1,750       1,224       -526         30       2031       46,800       46,800       32,740       -14,060       0.0334       1,563       1,094       -469         31       2032       46,800       46,800       32,740       -14,060       0.0298       1,395       976       -419         32       2033       46,800       46,800       32,740       -14,060       0.0266       1,245       871       -374         33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -2	26	2027		46,800	46,800	32,740	-14,060	0.0525	2,457	1,719	-738
29       2030       46,800       46,800       32,740       -14,060       0.0374       1,750       1,224       -526         30       2031       46,800       46,800       32,740       -14,060       0.0334       1,563       1,094       -469         31       2032       46,800       46,800       32,740       -14,060       0.0298       1,395       976       -419         32       2033       46,800       46,800       32,740       -14,060       0.0266       1,245       871       -374         33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213 </td <td>27</td> <td>2028</td> <td></td> <td>46,800</td> <td>46,800</td> <td>32,740</td> <td>-14,060</td> <td>0.0469</td> <td>2,195</td> <td>1,536</td> <td>-659</td>	27	2028		46,800	46,800	32,740	-14,060	0.0469	2,195	1,536	-659
30       2031       46,800       46,800       32,740       -14,060       0.0334       1,563       1,094       -469         31       2032       46,800       46,800       32,740       -14,060       0.0298       1,395       976       -419         32       2033       46,800       46,800       32,740       -14,060       0.0266       1,245       871       -374         33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190	28	2029	•	46,800	46,800	32,740	-14,060	0.0419	1,961	1,372	-589
31       2032       46,800       46,800       32,740       -14,060       0.0298       1,395       976       -419         32       2033       46,800       46,800       32,740       -14,060       0.0266       1,245       871       -374         33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169	29			46,800	46,800	32,740	-14,060	0.0374	1,750	1,224	-526
32       2033       46,800       46,800       32,740       -14,060       0.0266       1,245       871       -374         33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151 </td <td>30</td> <td>2031</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0334</td> <td>1,563</td> <td>1,094</td> <td>-469</td>	30	2031						0.0334	1,563	1,094	-469
33       2034       46,800       46,800       32,740       -14,060       0.0238       1,114       779       -335         34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,395</td> <td>. 976</td> <td>-419</td>									1,395	. 976	-419
34       2035       46,800       46,800       32,740       -14,060       0.0212       992       694       -298         35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120				•							-374
35       2036       46,800       46,800       32,740       -14,060       0.0189       885       619       -266         36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       120         43       2044       46,800       46,800       32,740       -14,060       0.0068       318       223       -95											-335
36       2037       46,800       46,800       32,740       -14,060       0.0169       791       553       -238         37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95											-298
37       2038       46,800       46,800       32,740       -14,060       0.0151       707       494       -213         38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85											-266
38       2039       46,800       46,800       32,740       -14,060       0.0135       632       442       -190         39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76											
39       2040       46,800       46,800       32,740       -14,060       0.0120       562       393       -169         40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69					A CONTRACTOR OF THE CONTRACTOR						
40       2041       46,800       46,800       32,740       -14,060       0.0107       501       350       -151         41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69         48       2049       46,800       46,800       32,740       -14,060       0.0043       201       141       -60 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>and the second second</td> <td></td> <td></td> <td></td> <td></td> <td></td>					-	and the second second					
41       2042       46,800       46,800       32,740       -14,060       0.0096       449       314       -135         42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69         48       2049       46,800       46,800       32,740       -14,060       0.0043       201       141       -60	-										-169
42       2043       46,800       46,800       32,740       -14,060       0.0086       402       282       -120         43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69         48       2049       46,800       46,800       32,740       -14,060       0.0043       201       141       -60											-151
43       2044       46,800       46,800       32,740       -14,060       0.0076       356       249       -107         44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69         48       2049       46,800       46,800       32,740       -14,060       0.0043       201       141       -60											-135
44       2045       46,800       46,800       32,740       -14,060       0.0068       318       223       -95         45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69         48       2049       46,800       46,800       32,740       -14,060       0.0043       201       141       -60											-120
45       2046       46,800       46,800       32,740       -14,060       0.0061       285       200       -85         46       2047       46,800       46,800       32,740       -14,060       0.0054       253       177       -76         47       2048       46,800       46,800       32,740       -14,060       0.0049       229       160       -69         48       2049       46,800       46,800       32,740       -14,060       0.0043       201       141       -60			,	•							-107
46     2047     46,800     46,800     32,740     -14,060     0.0054     253     177     -76       47     2048     46,800     46,800     32,740     -14,060     0.0049     229     160     -69       48     2049     46,800     46,800     32,740     -14,060     0.0043     201     141     -60											-95
47     2048     46,800     46,800     32,740     -14,060     0.0049     229     160     -69       48     2049     46,800     46,800     32,740     -14,060     0.0043     201     141     -60											-85
48 2049 46,800 46,800 32,740 -14,060 0.0043 201 141 -60											-76
											-69
154,100 2,152,800 2,306,900 1,506,040 -800,860 371,269 216,311 -154,958	48										-60
			154,100	2,152,800	2,306,900	1,506,040	-800,860		371,269	216,311	-154,958

N.P.V=	-154,958
B/C=	0.58
FIRR=	#DIV/0!

Table I 10 5	Paral road	improvement	(Financial	Analysich	/V/ 1 0	(nonatao)
ladie L IV-3	Kurai road	midrovement	(Fillancia)	AHAIVSIS)	$(\mathbf{N}4 \cdot 1 \cdot \mathbf{y})$	vastegani

1	1	00	M)	RΙ	¢
ι	ı,	v	TU,	N	ю.

	<b>.</b>	n :			(X4-1-9			1 = 1	2%	(1,000RIS.)
	Year	Project Cost	<u> </u>	· · · · · · · · · · · · · · · · · · ·	Total Benefit		Discount Rate	Cost	Benefit	N.P.V
1	2002	283,634	0	283,634		-283,634	0.8929	253,257	0	-253,257
2	2003	283,633	0	283,633		-283,633	0.7972	226,112	0	-226,112
3	2004	283,633	50,200	333,833		-223,533	0.7118	237,622	78,512	-159,110
4	2005	0	50,200	50,200	•	60,100	0.6355	31,902	70,096	38,194
5	2006	0	50,200	50,200		60,100		28,483	62,584	34,101
6	2007	0	50,200	50,200		60,100	0.5066	25,431	55,878	30,447
7	2008	0	50,200	50,200	110,300	60,100	0.4523	22,705	49,889	27,184
8	2009	0	50,200	50,200	110,300	60,100	0.4039	20,276	44,550	24,274
9 1	2010	0	50,200	50,200	110,300	60,100	0.3606	18,102	39,774	21,672
10	2011	0	50,200	50,200	110,300	60,100	0.3220	16,164	35,517	19,353
11	2012	. 0	50,200	50,200	110,300	60,100	0.2875	14,433	31,711	17,278
12	2013	0	50,200	50,200	110,300	60,100	0.2567	12,886	28,314	15,428
13	2014	0	50,200	50,200	110,300	60,100	0.2292	11,506	25,281	13,775
14	2015	0	50,200	50,200		60,100		10,271	22,567	12,296
15	2016	. 0	50,200	50,200		60,100		9,172	20,152	10,980
16	2017	0	50,200	50,200		60,100		8,188	17,990	9,802
17	2018	. 0	50,200	50,200		60,100	0.1456	7,309	16,060	8,751
18	2019	0	50,200	50,200		60,100		6,526	14,339	7,813
19	2020	0	50,200	50,200		60,100		5,828	12,806	6,978
20	2021		50,200	50,200		60,100		5,206	11,438	6,232
21	2022		50,200	50,200		60,100		4,649	10,214	5,565
22	2023		50,200	50,200		60,100		4,147	9,111	4,964
23	2024		50,200	50,200		60,100		3,705	8,140	4,435
24	2025	•	50,200	50,200	•	60,100		3,308	7,269	3,961
25	2026		50,200	50,200		60,100		2,952	6,486	3,534
26	2027		50,200	50,200		60,100		2,636	5,791	3,155
27	2028		50,200	50,200		60,100		2,354	5,173	2,819
28	2029	A	50,200	50,200		60,100		2,103		2,519
29	2030		50,200	50,200		60,100		1,877		2,248
30	2031		50,200	50,200		60,100		1,677	3,684	2,007
31	2032		50,200	50,200		60,100		1,496	3,287	1,791
32	2033		50,200	50,200		60,100		1,335	2,934	1,599
33	2034		50,200	50,200		60,100		1,195	2,625	1,430
34	2035			•	*			in the second		
35	2036							the Land		
36	2037									
37	2038			-	*			$\mathcal{F}_{i,j} = \{ i,j \in \mathcal{F}_i \}$		
38	2039				4			•		
39	2040				•					
40	2041							4		
41	2042									
42	2043		-			* * * * * * * * * * * * * * * * * * * *				
43	2044								The state of the s	
44	2045			•	•	1				
45	2046									
46	2047	4				4,				
47	2048					•				
48	2049		•						The Albania	
TO	としてノ	850,900	1,556,200	<u> </u>				and the second second second		

N.P.V=	-293,894
B/C=	0.71
FIRR=	5.8%

Ta	ble L-19-	6 Establishme	nt of cooperati	ve (Financial	Analysis) (K4-	·1-9 Vastegan	)			(1,000RIs.)
Year Project Cost O&M Cost		O&M Cost	Total Cost	Total Benefit	Net Benefit	T-10-0-10-10-10-10-10-10-10-10-10-10-10-1	I = 1			
	·						Discount Rate	Cost	Benefit	N.P.V
1	2002	55,413	0	55,413		-55,413		49,478	0	-49,478
2	2003	55,411	0	55,411		-55,411	0.7972	44,174	0	-44,174
3	2004	55,411	0	55,411		-55,411		39,442	, 0	-39,442
4	2005	55,411	938,020	993,431		268,569		631,325	802,001	170,676
5	2006	55,411	938,020	993,431		268,569		563,673	716,059	152,386
6	2007	55,411	938,020	993,431		268,569		503,272	639,329	136,057
7	2008	55,411	938,020	993,431		268,569		449,329	570,803	121,474
8	2009	55,411	938,020	993,431	1,262,000	268,569	0.4039	401,247	509,722	108,475
- 9	2010	55,411	938,020	993,431	1,262,000	268,569	0.3606	358,231	455,077	96,846
10	2011	55,411	938,020	993,431	1,262,000	268,569	0.3220	319,885	406,364	86,479
. 11	2012	55,411	938,020	993,431		268,569	0.2875	285,611	362,825	77,214
. 12	2013	55,411	938,020	993,431	1,262,000	268,569	0.2567	255,014	323,955	68,941
13	2014	55,411	938,020	993,431	1,262,000	268,569	0.2292	227,694	289,250	61,556
14	2015	55,411	938,020	993,431	1,262,000	268,569	0.2046	203,256	258,205	54,949
15	2016	55,411	938,020	993,431	1,262,000	268,569	0.1827	181,500	230,567	49,067
16	2017	55,411	938,020	993,431		268,569		162,029	205,832	43,803
17	2018	55,411	938,020	993,431		268,569		144,644	183,747	39,103
18	2019	55,411	938,020	993,431		268,569		129,146	164,060	34,914
19	2020	0	938,020	938,020		323,980		108,904	146,518	37,614
20	2021		938,020	938,020		323,980		97,273	130,869	33,596
21	2022		938,020	938,020		323,980		86,861	116,861	30,000
22		and the second	938,020	938,020	•	323,980		77,480	104,241	26,761
23	2024	1.1	938,020	938,020		323,980		69,226	93,136	23,910
24	2025		938,020	938,020		323,980			83,166	21,350
25	2026	*.	938,020	938,020		323,980		55,156	74,206	19,050
26			938,020	938,020		323,980		49,246	66,255	and the second s
27			938,020	938,020		323,980		43,993	59,188	15,195
28	2029		938,020	938,020		323,980		39,303	52,878	13,575
. 29	2030		938,020	938,020		323,980		35,082	47,199	12,117
30	2031		938,020	938,020		323,980		31,330	42,151	10,821
31	2032		938,020	938,020		323,980		27,953	37,608	9,655
32		4	938,020	938,020		323,980		24,951	33,569	8,618
33	2034		938,020	938,020		323,980		22,325	30,036	7,711
34	2035		938,020	938,020		323,980		19,886	26,754	6,868
35	2036		938,020	938,020		323,980		17,729	23,852	6,123
36			938,020	938,020		323,980		15,853	21,328	5,475
37	2038	100	938,020	938,020		323,980		14,164	19,056	4,892
38	2039		938,020	938,020		323,980		12,663	17,037	4,374
39	2040		938,020	938,020		323,980	0.0120	11,256	15,144	3,888
40		1	938,020	938,020		323,980		10,037	13,503	3,466
41	2042		938,020	938,020		323,980		9,005	12,115	3,110
42	2043		938,020	938,020		323,980		8,067	10,853	2,786
43	204.5		938,020	938,020		323,980		7,129	9,591	2,780
44	2045		938,020	938,020		323,980				
7	2043		938,020					6,379	8,582	2,203
45				938,020		323,980		5,722	7,698	1,976
46			938,020	938,020		323,980		5,065	6,815	1,750
47			938,020	938,020		323,980	0.0049	4,596	6,184	1,588
48	2049	007.400	938,020	938,020		323,980	0.0043	4,033	5,427	1,394
	<del> </del>	997,400	42,210,900	43,208,300	56,790,000	13,581,700		5,931,433	7,439,616	1,508,183

N.P.V≃	1,508,183
B/C=	1.25
FIRR≃	80.2%

Table L-19-7 Financial Evaluation of the Proposed Prijects (Grand Total) (K4-1-9 Vastegan)

(1,000Rls.)

			·	· · · · · · · · · · · · · · · · · · ·	I = 12%		(1,000RIs.)
Year	Total cost	Total benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	537,987	0	-537,987	0.8929	480,369	0	-480,369
2	537,978	. 0	-537,978	0.7972	428,876	0	-428,876
3	634,978	143,040	-491,938	0.7118	451,977	101,816	-350,161
4	1,397,965	2,855,065	1,457,100	0.6355	888,407	1,814,394	925,987
5	1,397,965	2,855,065	1,457,100	0.5674	793,205	1,619,964	826,759
6	1,905,431	3,307,665	1,402,234	0.5066	965,291	1,675,663	710,372
7	2,097,607	3,760,265	1,662,658	0.4523	948,748	1,700,768	752,020
8	2,471,233	4,212,865	1,741,632	0.4039	998,131	1,701,576	703,445
9	2,844,859	4,665,465	1,820,606	0.3606	1,025,856	1,682,367	656,511
10	3,218,485	5,118,065	1,899,580	0.3220	1,036,352	1,648,017	611,665
11	3,084,645	5,118,065	2,033,420	0.2875	886,835	1,471,444	584,609
12	3,084,645	5,118,065	2,033,420	0.2567	791,828	1,313,807	521,979
13	3,084,645	5,118,065	2,033,420	0.2292	707,001	1,173,060	466,059
14	3,084,645	5,118,065	2,033,420	0.2046	631,118	1,047,156	416,038
15	3,084,645	5,118,065	2,033,420	0.1827	563,565	935,070	371,505
16	3,084,645	5,118,065	2,033,420	0.1631	503,106	834,756	331,650
17	3,084,645	5,118,065	2,033,420	0.1456	449,124	745,190	296,066
18	3,446,601	5,118,065	1,671,464	0.1300	448,058	665,348	217,290
19	3,231,700	5,118,065	1,886,365	0.1161	375,200	594,207	219,007
20	3,231,700	5,118,065	1,886,365	0.1037	335,127	530,743	195,616
21	3,231,700	5,118,065	1,886,365	0.0926	299,255	473,933	174,678
22	3,231,700	5,118,065	1,886,365	0.0826	266,938	422,752	155,814
23	3,231,700	5,118,065	1,886,365	0.0738	238,499	377,713	139,214
24	3,231,700	5,118,065	1,886,365	0.0659	212,969	337,280	124,311
25	3,231,700	5,118,065	1,886,365	0.0588	190,024	300,942	110,918
26	3,231,700	5,118,065	1,886,365	0.0525	169,664	268,698	99,034
27	3,231,700	5,118,065	1,886,365	0.0469	151,567	240,037	88,470
28	3,231,700	5,118,065	1,886,365	0.0419	135,408	214,447	79,039
29	3,231,700	5,118,065	1,886,365	0.0374	120,866	191,416	70,550
30	3,231,700	5,118,065	1,886,365	0.0334	107,939	170,943	63,004
31	3,231,700	5,118,065	1,886,365	0.0298	96,305	152,518	56,213
32	3,231,700	5,118,065	1,886,365	0.0266	85,963	136,141	50,178
33	3,231,700	5,118,065	1,886,365	0.0238	76,914	121,810	44,896
34	3,231,700	5,118,065	1,886,365	0.0212	68,512	108,503	39,991
35	3,231,700	5,118,065	1,886,365	0.0189	61,079	96,731	35,652
36	3,231,700	5,118,065	1,886,365	0.0169	54,616	86,495	31,879
37	3,231,700	5,118,065	1,886,365	0.0151	48,799	77,283	28,484
38	3,231,700	5,118,065	1,886,365	0.0135	43,628	69,094	25,466
39	3,231,700		1,886,365	0.0120	38,780	61,417	22,637
40	3,231,700		1,886,365	0.0107	34,579	54,763	20,184
41	3,231,700	5,118,065	1,886,365	0.0096	31,024	49,133	18,109
42	3,231,700	5,118,065	1,886,365	0.0086	27,793	44,015	16,222
43	3,231,700	5,118,065	1,886,365	0.0076	24,561	38,897	14,336
44	3,231,700	5,118,065	1,886,365	0.0068	21,976	34,803	12,827
45	3,231,700		1,886,365	0.0061	19,713	31,220	11,507
46	3,231,700		1,886,365	0.0054	17,451	27,638	10,187
47	3,231,700		1,886,365	0.0049	15,835	25,079	9,244
48	3,231,700		1,886,365	0.0043	13,896	22,008	8,112
	139,034,604		82,369,361		16,382,727	25,491,055	9,108,328
					· · · · · · · · · · · · · · · · · · ·	<u> </u>	

N.P.V=	9,108,328
B/C=	1.56
EIRR=	57.4%

(1	,00	OR	ls.

			**************************************					I = 1	2%	11,0001(3.)
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	402,375	0	402,375	0	-402,375	0.8929	359,281	0	-359,281
2	2003	402,375	0	402,375	0	-402,375		320,773	0	-320,773
3	2004	402,375	0	402,375	0	-402,375		286,411	0	-286,411
4	2005	402,375	35,500	437,875	158,970	-278,905		278,270	101,025	-177,245
5	2006	402,375	35,500	437,875		-278,905		248,450	90,200	-158,250
б	2007	402,375	35,500	437,875		-278,905		221,827	80,534	-141,293
7	2008	402,375	35,500	437,875		-278,905		198,051	71,902	-126,149
8	2009	402,375	35,500	437,875		-278,905		176,858	64,208	-112,650
9	2010	0	35,500	35,500		123,470		12,801	57,325	44,524
10	2011	0	35,500	35,500		123,470		11,431	51,188	39,757
11	2012	0	35,500	35,500		123,470		10,206	45,704	35,498
12	2013	. 0	35,500	35,500		123,470		9,113	40,808	31,695
13	2014	0	35,500	35,500		123,470		8,137	36,436	28,299
14	2015	0	35,500	35,500		123,470		7,263	32,525	25,262
15	2016	0	35,500	35,500		123,470		6,486	29,044	22,558
16	2017	0	35,500	35,500		123,470		5,790	25,928	20,138
17	2018	0	35,500	35,500		123,470			23,146	17,977
18	2019	. 0	35,500	35,500		123,470		4,615	20,666	16,051
19	2020	0	35,500	35,500		123,470		4,122	18,456	14,334
20	2021		35,500	35,500		123,470		3,681	16,485	12,804
21	2022		35,500	35,500		123,470		3,287	14,721	11,434
22	2023		35,500	35,500		123,470		2,932	13,131	10,199
23	2024		35,500	35,500		123,470		2,620	11,732	9,112
24	2025		35,500	35,500	158,970	123,470	0.0659	2,339	10,476	8,137
25	2026		35,500	35,500	158,970	123,470	0.0588	2,087	9,347	7,260
26	2027		35,500	35,500	158,970	123,470	0.0525	1,864	8,346	6,482
27	2028		35,500	35,500	158,970	123,470	0.0469	1,665	7,456	<b>5,7</b> 91
28	2029		35,500	35,500	158,970	123,470	0.0419	1,487	6,661	5,174
29	2030		35,500	35,500	158,970	123,470		1,328	5,945	4,617
30	2031		35,500	35,500		123,470	0.0334	1,186	5,310	4,124
31	2032		35,500	35,500	158,970	123,470	0.0298	1,058	4,737	3,679
32	2033		35,500	35,500		123,470		944	4,229	3,285
33	2034		35,500	35,500		123,470		845	3,783	2,938
34	2035		<b>35,</b> 500	35,500		123,470		753	3,370	2,617
35	2036		35,500	<b>35,5</b> 00		123,470		671	3,005	2,334
36	2037		35,500	<b>35,</b> 500		123,470		600	2,687	2,087
37	2038		35,500	35,500		123,470		536	2,400	1,864
38	2039		35,500	35,500	158,970	123,470	0.0135	479	2,146	1,667
39										
40	2041									
41	2042					•				
42	2043		•							
43	2044									
44	2045						•			
45	2046				•			*		
46										
47	2048									
48	2049	2 240 000	4.040.500	4 464 600	F E/A DEA	1 100 120		0.005.416	025.070	1.000.05
		3,219,000	1,242,500	4,461,500	5,563,950	1,102,450		2,205,416	925,062	-1,280,354

N.P.V=	-1,280,354
B/C=	0.42
EIRR=	1.9%

		· 5 Kivei ilipiov				. <del> </del>		X = 1	207	(1,000Rls.)
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	0	0	0	0	0	0.8929	0	0	0
2	2003	0	0	0		ō	0.7972	ő	0	. 0
3	2004	0	- 0	0		ő	0.7118	0	0	: 0
4	2005	0	0	0		0	0.6355	0	. 0	0
5	2006	0	0	0	-	. 0	0.5674	. 0	0	0
6	2007	0	Õ	. 0	-	0	0.5066	. 0	0	0
7	2008	0	0	o 0	-	0	0.4523	. 0	. 0	0
8	2009	0	0	. 0	-	·. 0	0.4039	0	0	0
9	2010	2,203,800	: 0	2,203,800	_	-2,203,800	0.3606	794,690	0	-794,690
10	2011	2,203,800	. 0	2,203,800		-2,203,800	0.3220	709,624	0	-709,624
11	2012	2,203,800	0	2,203,800		-2,203,800	0.3220	633,593	0	
12	2013	2,203,800	91,700	2,295,500		-2,295,500	0.2567	589,255	0	-633,593
13	2014	2,203,800	91,700	2,295,500		-1,683,990	0.2307			-589,255
14	2015	2,203,000	91,700	91,700		519,810		526,129	140,158	-385,971
15	2016	. 0	91,700	91,700			0.2046	18,762	125,115	106,353
16	2017	0	91,700	91,700		519,810	0.1827	16,754	111,723	94,969
17	2017	. 0	91,700	91,700	-	519,810	0.1631	14,956	99,737	84,781
18	2019					519,810	0.1456	13,352	89,036	75,684
19		. 0	91,700	91,700		519,810	0.1300	11,921	79,496	67,575
	2020	0	91,700	91,700		519,810	0.1161	10,646	70,996	60,350
20	2021	•	91,700	91,700		519,810	0.1037	9,509	63,414	53,905
21	2022		91,700	91,700	•	519,810	0.0926	8,491	56,626	48,135
22	2023		91,700	91,700		519,810	0.0826	7,574	50,511	42,937
23	2024		91,700	91,700		519,810	0.0738	6,767	45,129	38,362
24	2025		91,700	91,700		519,810	0.0659	6,043	40,299	34,256
25	2026		91,700	91,700	•	519,810	0.0588	5,392	35,957	30,565
26	2027		91,700	91,700		519,810	0.0525	4,814	32,104	27,290
27	2028		91,700	91,700		519,810		4,301	28,680	24,379
28	2029		91,700	91,700	•	519,810	0.0419	3,842	25,622	21,780
29	2030		91,700	91,700		519,810	0.0374	3,430	22,870	19,440
30	2031		91,700	91,700		519,810	0.0334	3,063	20,424	17,361
31	2032		91,700	91,700	and the second second	519,810	0.0298	2,733	18,223	15,490
32	2033		91,700	91,700	•	519,810	0.0266	2,439	16,266	13,827
33	2034		91,700	91,700	-	519,810	0.0238	2,182	14,554	12,372
34	2035		91,700	91,700	611,510	519,810	0.0212	1,944	12,964	11,020
35	2036		91,700	91,700	611,510	519,810	0.0189	1,733	11,558	9,825
36	2037	•	91,700	91,700	611,510	519,810	0.0169	1,550	10,335	8,785
37	2038	•	91,700	91,700	611,510	519,810	0.0151	1,385	9,234	7,849
38	2039		91,700	91,700		519,810	0.0135	1,238	8,255	7,017
39	2040		91,700	91,700		519,810	0.0120	1,100	7,338	6,238
40	2041		91,700	91,700		519,810	0.0107	981	6,543	5,562
41	2042		91,700	91,700		519,810	0.0096	880	5,870	4,990
42	2043		91,700	91,700		519,810	0.0086	789	5,259	4,470
43	2044		91,700	91,700		519,810	0.0076	697	4,647	3,950
44	2045		•	, , ,	, - 40	,		027	1,017	2,220
45	2046							100	•	
46	2047			•						4 · *
47	2048									
48	2049									
		11,019,000	2,934,400	13,953,400	18,956,810	5,003,410		3,422,559	1,268,943	-2,153,616
		, , - 00	2,23 1, 100	,,.00	10,220,010	3,003,410		3,744,333	1,200,743	-2,133,010

N.P.V=	-2,153,616
B/C=	0.37
EIRR=	#NUM!

Table L-19-10 Groundwater mor	storing (Feonomic	Analysis) (K4-1	9 Vastegan)
radio introductional and interest in the	HIGHING CECONOMIC	Tallet (elek inita)	'7 Y USICEANN

(1,000RIs.)

	****		01 111011101110	(200::01::01::01::01::01::01::01::01::01:	1al yolo) (127-1-			T 4	20/	(1,000 R15.)
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	ni	I = 1 Cost	2% Benefit	N.P.V
	2002	122 400	· v	133,489	0	-133,489	Discount Rate 0.8929	119,192	Beneut 0	
1 2	2002	133,489	0	133,489		-		119,192	. 0	-119,192
3	2003	133,483	0			-133,483	0.7972	95,013	0	-106,413
4	2004	133,483		133,483		-133,483	0.7118		0	-95,013
		133,483	86,100	219,583		-219,583		139,545		-139,545
5	2006	133,483	86,100	219,583		-219,583	0.5674	124,591	0	-124,591
6	2007	133,483	86,100	219,583		-219,583	0.5066	111,241	0	-111,241
7	2008	133,483	86,100	219,583		-219,583	0.4523	99,317	0	-99,317
8 :	2009	133,483	86,100	219,583		-219,583	0.4039	88,690	0	-88,690
9	2010	133,483	86,100	219,583		-219,583		79,182	0	-79,182
10	2011	133,483	86,100	219,583		-219,583	0.3220	70,706	0	-70,706
11	2012	133,483	86,100	219,583		-219,583	0.2875	63,130	0	-63,130
12	2013	133,483	86,100	219,583	0	-219,583	0.2567	56,367	0	-56,367
13	2014	133,483	86,100	219,583	0	-219,583	0.2292	50,328	0	-50,328
14	2015	133,483	86,100	219,583		-219,583	0.2046	44,927	0	-44,927
15	2016	133,483	86,100	219,583		-219,583		40,118	0	-40,118
16	2017	133,483	86,100	219,583		-219,583		35,814	0	-35,814
17	2018	133,483	86,100	219,583	0	-219,583		31,971	0	-31,971
18	2019	133,483	86,100	219,583		-219,583		28,546	. 0	-28,546
19	2020	0	86,100	86,100		-86,100		9,996	0	-9,996
20	2021		86,100	86,100		-86,100		8,929	. 0	-8,929
21	2022		86,100	86,100		-86,100		7,973	0	-7,973
22	2023		86,100	86,100		-86,100	0.0826	7,112	0	-7,112
23	2024		86,100	86,100		-86,100	0.0738	6,354	. 0	-6,354
24	2025		86,100	86,100		-86,100	0.0659	5,674	0	-5,674
25	2026		86,100	86,100		-86,100		5,063	0	-5,063
26	2027	1.00	86,100	86,100		-86,100		4,520	0	-4,520
27	2028	* *	86,100	86,100		-86,100		4,038	0	-4,038
28	2029		86,100	86,100		-86,100		3,608	0	-3,608
29	2030	: .	86,100	86,100		-86,100	0.0374	3,220	0	-3,220
30	2031		86,100	86,100		-86,100	0.0334	2,876	0	-2,876
31	2032		86,100	86,100		-86,100	0.0298	2,566	. 0	-2,566
32	2033		86,100	86,100		-86,100	0.0266	2,290	0	-2,290
33	2034		86,100	86,100		-86,100		2,049	0	-2,049
34	2035		86,100	86,100		-86,100		1,825	0	-1,825
35	2036		86,100	86,100		-86,100		1,627	0	-1,627
36	2037		86,100	86,100		-86,100		1,455	0	-1,455
37	2038	1.5	86,100	86,100		-86,100		1,300	0	-1,300
38	2039		86,100	86,100	_	-86,100		1,162	0	-1,162
39	2040		86,100	86,100		-86,100	0.0120	1,033	0	-1,033
40	2041		86,100	86,100		-86,100	0.0107	921	0	-921
41	2042		86,100	86,100		-86,100	0.0096	827	0	-827
42	2043	18 miles	86,100	86,100		-86,100	0.0086	740	. 0	-740
43	2044		86,100	86,100		-86,100	0.0076	654	0	-654
44	2045		86,100	86,100		-86,100	0.0068	585	0	-585
45	2046		86,100	86,100		-86,100	0.0061	525	0	-525
46	2047		86,100	86,100		-86,100	0.0054	465	0	-465
47	2048		86,100	86,100		-86,100	0.0049	422	. 0	-422
48	2049	2 400 500	86,100	86,100		-86,100	0.0043	370	. 0	-370
		2,402,700	3,874,500	6,277,200	0	-6,277,200		1,475,270	0	-1,475,270

N.P.V=	-1,475,270
B/C=	0.00
EIRR=	#DIV/0!

1 ac	ole FY1A	11 Kangeland	vegetation im	provement (Ec	conomic Analys	is) (K4-1-9 V	'astegan)			(1,000Rls
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	I = 1 Cost		N.P.V
1	2002	1,130	0	1,130	0	-1,130	Discount Rate 0.8929	1,009	Benefit 0	-1,00
2	2003	1,130		1,130		-1,130	0.8929	901	0	
3	2004	1,130		1,130		-1,130	0.7972	901 804	0	-90 -80
4	2005	1,130		7,930						
5	2005	1,130				96,310	0.6355	5,040	66,245	61,20
5	2007			7,930		96,310	0.5674	4,499	59,146	54,64
		1,130		7,930		96,310	0.5066	4,017	52,808	48,79
7	2008	1,130		7,930	•	96,310		3,587	47,148	43,56
}	2009	1,130		7,930		96,310	0.4039	3,203	42,103	38,90
)	2010	1,130		7,930		96,310	0.3606	2,860	37,589	34,72
0	2011	1,130		7,930		96,310	0.3220	2,553	33,565	31,01
1	2012	, 0		6,800		9 <b>7,44</b> 0		1,955	29,969	28,01
2	2013	0		6,800	104,240	97,440	0.2567	1,746	26,758	25,01
3	2014	0	•	6,800	104,240	97,440	0.2292	1,559	23,892	22,33
<b>L4</b>	2015	. 0	6,800	6,800	104,240	97,440	0.2046	1,391	21,328	19,93
5	2016	. 0	-,	6,800	104,240	97,440	0.1827	1,242	19,045	17,80
6	2017	0	6,800	6,800	104,240	97,440	0.1631	1,109	17,002	15,89
7	2018	0	6,800	6,800	104,240	97,440	0.1456	990	15,177	14,18
8	2019	0	6,800	6,800	104,240	97,440	0.1300	884	13,551	12,66
9	2020	0		6,800		97,440	0.1161	789	12,102	11,31
0.	2021		6,800	6,800		97,440	0.1037	705	10,810	10,10
1	2022		6,800	6,800		97,440	0.0926	630	9,653	9,02
2	2023		6,800	6,800	104,240	97,440	0.0826	562	8,610	8,04
3	2024		6,800	6,800	104,240	97,440	0.0738	502	7,693	7,19
4	2025	-	6,800	6,800	104,240	97,440	0.0659	448	6,869	6,42
5	2026		6,800	6,800	104,240	97,440	0.0588	400	6,129	5,72
6	2027		6,800	6,800		97,440	0.0525	357	5,473	5,11
:7	2028		6,800	6,800	104,240	97,440	0.0469	319	4,889	4,57
28	2029		6,800	6,800	104,240	97,440	0.0419	285	4,368	4,08
9	2030	100	6,800	6,800	104,240	97,440	0.0374	254	3,899	3,64
0	2031		6,800	6,800	104,240	97,440	0.0334	227	3,482	3,25
1	2032		6,800	6,800	104,240	97,440	0.0298	203	3,106	2,90
2	2033		6,800	6,800	104,240	97,440	0.0266	181	2,773	2,59
3	2034		6,800	6,800	104,240	97,440	0.0238	162	2,481	2,31 2,31
14	2035		6,800	6,800	104,240	97,440	0.0230	144	2,210	2,00
5	2036	:	6,800	6,800	104,240	97,440	0.0212	129	1,970	
6	2037		6,800	6,800	104,240	97,440				1,84
7	2038		6,800	6,800	104,240	97,440	0.0169 0.0151	115 103	1,762	1,64
8	2039	٠	6,800	6,800	104,240	97, <del>44</del> 0 97,440			1,574	1,4
19	2040	-	6,800	6,800	104,240		0.0135	92	1,407	1,31
Ю	2041	e.	6,800	6,800	104,240	97,440	0.0120	82	1,251	1,10
11	2042	•	0,000	0,000	104,240	97,440	0.0107	73	1,115	1,04
12	2043									
13	2043									
1.5 14	2044				1.:	•				*.
			* *		·*.		W. A. J			
5	2046		•							
16	2047									
17	2048	•								
18	2049			· · · · · · · · · · · · · · · · · · ·						
		11,300	251,600	262,900	3,856,880	3,593,980		46,111	608,952	562,84

N.P.V=	562,841
B/C=	13.21
EIRR=	341.8%

		•
	-	
Table L-19-12 Orchard t	terracing (Economic Ana	alysis) (K4-1-9 Vastegan)

71	,000Rls	١
ιı	*000TC12	. 1

		12 Olchaid ter						I = 1	2%	(1,0001(15.)
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	170,565	0	170,565	0	-170,565	0.8929	152,297	0	-152,297
2	2003	170,567	0	170,567	0	-170,567	0.7972	135,976	0	-135,976
3	2004	170,567	0	170,567		-170,567		121,410	0	-121,410
4	2005	170,567	69,000	239,567	1,241,900	1,002,333	0.6355	152,245	789,227	636,982
5	2006	170,567	69,000	239,567	1,241,900	1,002,333	0.5674	135,930	704,654	568,724
6	2007	170,567	69,000	239,567	1,241,900	1,002,333	0.5066	121,365	629,147	507,782
7	2008	0	69,000	69,000	1,241,900	1,172,900	0.4523	31,209	561,711	530,502
8	2009	0	69,000	69,000	1,241,900	1,172,900	0.4039	27,869	501,603	473,734
9	2010	0	69,000	69,000	1,241,900	1,172,900	0.3606	24,881	447,829	422,948
10	2011	0	69,000	69,000	1,241,900	1,172,900	0.3220	22,218	399,892	377,674
11	2012	0	69,000	69,000	1,241,900	1,172,900	0.2875	19,838	357,046	337,208
12	2013	0	69,000	69,000	1,241,900	1,172,900	0.2567	17,712	318,796	301,084
13	2014	0	69,000	69,000	1,241,900	1,172,900	0.2292	15,815	284,643	268,828
14	2015	0	69,000	69,000	1,241,900	1,172,900	0.2046	14,117	254,093	239,976
15	2016	. 0	69,000	69,000	1,241,900	1,172,900	0.1827	12,606	226,895	214,289
16	2017	0	69,000	69,000	1,241,900	1,172,900	0.1631	11,254	202,554	191,300
17	2018	. 0	69,000	69,000	1,241,900	1,172,900	0.1456	10,046	180,821	170,775
18	2019	0	69,000	69,000	1,241,900	1,172,900	0.1300	8,970	161,447	152,477
19	2020	0	69,000	69,000		1,172,900	0.1161	8,011	144,185	136,174
20	2021		69,000	69,000	1,241,900	1,172,900	0.1037	7,155	128,785	121,630
21	2022		69,000	69,000	1,241,900	1,172,900	0.0926	6,389	115,000	108,611
22	2023	1 - 1	69,000	69,000		1,172,900	0.0826	5,699	102,581	96,882
23	2024		69,000	69,000		1,172,900		5,092	91,652	86,560
24	2025		69,000	69,000	1,241,900	1,172,900		4,547	81,841	77,294
25	2026		69,000	69,000	1,241,900	1,172,900		4,057	73,024	68,967
26	2027		69,000	69,000	1,241,900	1,172,900		3,623	65,200	61,577
27	2028		69,000	69,000		1,172,900		3,236	58,245	55,009
28	2029		69,000	69,000		1,172,900		2,891	52,036	49,145
29	2030		69,000	69,000		1,172,900		2,581	46,447	43,866
30	2031		69,000	69,000		1,172,900		2,305	41,479	39,174
31	2032		69,000	69,000		1,172,900		2,056	37,009	34,953
32	2033		69,000	69,000		1,172,900		1,835	33,035	31,200
33	2034		69,000	69,000		1,172,900		1,642	29,557	27,915
34	2035		69,000	69,000	1,241,900	1,172,900		1,463	26,328	24,865
35	2036		69,000	69,000	1,241,900	1,172,900		1,304	23,472	22,168
36	2037		69,000	69,000	1,241,900	1,172,900	0.0169	1,166	20,988	19,822
37	2038			4				•		
38	2039	•				•	•			
39	2040									
40	2041				4					
41	2042									-
42	2043	100			**					
43	2044						•	e e		
44	2045					•				
45	2046				-		•		•	
46	2047 2048						•			
47	2048									
48	2049	1 022 400	2 277 000	2 200 400	40,982,700	27 602 200	<del></del>	1 100 910	7 101 222	6 000 410
		1,023,400	2,277,000	3,300,400	4U,Y&Z,/UU	37,682,300		1,100,810	7,191,222	6,090,412

N.P.V=	6,090,412
B/C=	6.53
EIRR=	91.5%

Table L-19-13 Increase of Agricultural production (Economic Analysis) (K4-1-9 Vastegan)

(1,000Rls.)

		15 mercase or						I = 1	2%	(1,000KIS.
	Year		O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	8,387	0	8,387		-8,387		7,489	0	-7,489
2	2003	8,389	0	8,389		-8,389		6,688	0	-6,68
3	2004	8,389	. 0	8,389		-8,389	0.7118	5,971	0	-5,97
4	2005	8,389	33,100	41,489	84,963	43,474	0.6355	26,366	53,994	27,62
5	2006	8,389	33,100	41,489	84,963	43,474	0.5674	23,541	48,208	24,66
5	2007	8,389	33,100	41,489	84,963	43,474	0.5066	21,018	43,042	22,02
7	2008	8,389	33,100	41,489	84,963	43,474	0.4523	18,765	38,429	19,66
3	2009	8,389	33,100	41,489	84,963	43,474		16,757	34,317	17,56
)	2010	8,389	33,100	41,489	84,963	43,474		14,961	30,638	15,67
0	2011	8,389	33,100	41,489	84,963	43,474		13,359	27,358	13,99
11	2012	8,389	33,100	41,489		43,474	and the second s	11,928	24,427	12,49
2	2013	8,389	33,100	41,489	•	43,474		10,650	21,810	11,16
3	2014	8,389	33,100	41,489		43,474		9,509		9,96
14	2015	8,389	33,100	41,489		43,474		8,489	17,383	8,89
15	2016	8,389	33,100	41,489		43,474		7,580	15,523	7,94
6	2017	8,389	33,100	41,489		43,474		6,767	13,857	7,09
7	2018	8,389	33,100	41,489		43,474		6,041	12,371	6,33
8	2019	8,389	33,100	41,489		43,474			11,045	5,65
9	2020	0,000	33,100	33,100		51,863		3,843	9,864	
0	2021	v	33,100	33,100		51,863		3,432	8,811	5,37
1	2022		33,100	33,100		51,863		3,065	7,868	4,80
2	2023	•	33,100	33,100		51,863		2,734	7,018	
3	2024		33,100	33,100		51,863		2,734	6,270	3,82
4	2025		33,100	33,100		51,863		2,181	5,599	
5	2026		33,100	33,100		51,863		2,161 1,946	3,399 4,996	3,41
6	2027	•	33,100	33,100		51,863				3,05
7	2027	100	33,100	33,100		51,863		1,738 1,552	4,461	2,72 2,43
8	2029		33,100	33,100					3,985	
9	2030		33,100			51,863 51,863		1,387	3,560	2,17
0				33,100		51,863		1,238	3,178	1,94
	2031		33,100	33,100		51,863		1,106	2,838	1,73
1	2032		33,100	33,100		51,863		986	2,532	1,54
2	2033		33,100	33,100		51,863		880	2,260	1,38
3	2034		33,100	33,100		51,863		788	2,022	1.23
4	2035	-	33,100	33,100		51,863		702	1,801	1,09
5	2036	-	33,100	33,100		•		626	1,606	98
6	2037	•	33,100	33,100		51,863		559	1,436	8
7	2038		33,100	33,100		51,863		500	1,283	78
8	2039		33,100	33,100	-	51,863		447	1,147	70
9	2040		33,100	33,100		51,863		397	1,020	62
Ю.	2041		33,100	33,100		51,863	0.0107	354	909	55
1	2042		33,100	33,100		51,863		318	816	49
2	2043		33,100	33,100		51,863		285	731	44
13	2044		33,100	33,100		51,863		252	646	39
4	2045		33,100	33,100		51,863		225	578	35
5	2046		33,100	33,100		51,863	0.0061	202	518	31
6	2047		33,100	33,100		51,863	0.0054	179	459	28
47	2048		33,100	33,100	84,963	51,863	0.0049	162	416	25
48	2049		33,100	33,100		51,863		142	365	22
		151,000	1,489,500	1,640,500		2,182,835		255,942	500,869	244,92

N.P.V=	244,927
B/C=	1.96
EIRR=	83,5%

			ation to Milk C					I = 1	2%	(1,000Rl
,	Year		O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	0		. 0		0	0.8929	0	. 0	
2	2003	0	The second secon	C		0	0.7972	0	0	
3	2004	0	0	. 0	0	0	0.7118	0	0	*
4	2005	. 0	. 0	. 0	0	. 0	0.6355	0	0	
5	2006	. 0	0	0		. 0	0.5674	. 0	0	
6	2007	125,840		473,536	425,590	-47,946	0.5066	239,893	215,604	-24,2
7	2008	125,840	695,392	821,232	851,180	29,948	0.4523	371,443	384,989	13,5
3	2009	125,840	1,043,088	1,168,928	1,276,770	107,842	0.4039	472,130	515,687	43,5
•	2010	125,840	1,390,784	1,516,624	1,702,360	185,736	0.3606	546,895	613,871	66,9
0	2011	125,840	1,738,480	1,864,320	2,127,950	263,630	0.3220	600,311	685,200	84,8
l.1	2012	C		1,738,480	2,127,950	389,470	0.2875	499,813	611,786	111,9
2	2013	0		1,738,480		389,470	0.2567	446,268	546,245	99,9
13	2014	0		1,738,480		389,470	0.2292	398,460	487,726	89,2
14	2015	. 0		1,738,480		389,470	0.2046	355,693	435,379	79,6
15	2016	C		1,738,480		389,470	0.1827	317,620	388,776	71,1
16	2017	Ċ		1,738,480		389,470	0.1631	283,546	347,069	63,5
7	2018	Ö		1,738,480		389,470	0.1456	253,123	309,830	56,7
8	2019			1,738,480		389,470	0.1300	226,002	276,634	50,6
9	2020	C		1,738,480		389,470	0.1161	201,838	247,055	45,2
0	2021		1,738,480	1,738,480		389,470	0.1037	180,280	220,668	40,3
1	2022		1,738,480	1,738,480		389,470	0.0926	160,283	197,048	36,0
2	2023	\$ 1.	1,738,480	1,738,480		389,470	0.0926	143,598	175,769	32,1
3	2024		1,738,480	1,738,480		389,470	0.0738	128,300	157,043	28,7
<i>3</i>	2025		1,738,480	1,738,480		389,470	0.0659	114,566	140,232	25,0
5	2023									
	2027		1,738,480	1,738,480		389,470 389,470	0.0588 0.0525	102,223	125,123	22,9
6 7			1,738,480 1,738,480	1,738,480 1,738,480				91,270	111,717	20,4
8	2028 2029					389,470	0.0469	81,535	99,801	18,2
			1,738,480	1,738,480		389,470	0.0419	72,842	89,161	16,3
9	2030	100	1,738,480	1,738,480		389,470	0.0374	65,019	79,585	14,5
0	2031		1,738,480	1,738,480		389,470	0.0334	58,065	71,074	13,0
1	2032		1,738,480	1,738,480		389,470	0.0298	51,807	63,413	11,6
2	2033		1,738,480	1,738,480		389,470	0.0266	46,244	56,603	10,3
3	2034		1,738,480	1,738,480		389,470	0.0238	41,376	50,645	9,2
4	2035		1,738,480	1,738,480		389,470	0.0212	36,856	45,113	8,2
5	2036		1,738,480	1,738,480		389,470	0.0189	32,857	40,218	7,3
6	2037	*	1,738,480	1,738,480		389,470	0.0169	29,380	35,962	6,5
7	2038		1,738,480	1,738,480		389,470	0.0151	26,251	32,132	5,8
8	2039		1,738,480	1,738,480		389,470	0.0135	23,469	28,727	5,2
9	2040	1000		1,738,480		389,470	0.0120	20,862	25,535	4,6
0	2041		1,738,480	1,738,480	2,127,950	389,470	0.0107	18,602	22,769	4,1
1	2042								**	
2	2043									
3	2044	1.	*							
4	2045			* .						
5	2046	**			*					
6	2047	100						-	-	
7	2048									
8	2049		general expension			-				
		629,200	57,369,840	57,999,040	70,222,350	12,223,310		6,739,420	7,934,189	1,194,7

N.P.V=	1,194,769
B/C=	1.18
EIRR=	162.5%

	Year				Total Benefit			I≔	12%	(1,000kds.)
					Total Delient		Discount Rate	Cost	Benefit	N.P.V
1	2002	8,050	0	8,050	. 0	-8,050	0.8929	7,188	0	7,188
- 2	2003	8,050	. 0	8,050		8,050		6,417	0	-6,417
. 3	2004	8,050	44,000	52,050		-52,050		37,049	. 0	-37,049
4	2005	8,050	44,000	52,050		-21,280		33,078	19,554	-13,524
5	2006	8,050	44,000	52,050		-21,280		29,533	17,459	-12,074
6	2007	8,050	44,000	52,050	30,770	-21,280		26,369	15,588	-10,781
7	2008	8,050	44,000	52,050	30,770	-21,280	0.4523	23,542	13,917	-9,625
8	2009	8,050	44,000	52,050		-21,280	0.4039	21,023	12,428	-8,595
9	2010	8,050	44,000	52,050	30,770	-21,280	0.3606	18,769	11,096	-7,673
10	2011	8,050	44,000	52,050		-21,280	0.3220	16,760	9,908	-6,852
11	2012	8,050	44,000	52,050	30,770	-21,280	0.2875	14,964	8,846	-6,118
12	2013	8,050	44,000	52,050	30,770	-21,280	0.2567	13,361	7,899	-5,462
13	2014	8,050	44,000	52,050	30,770	-21,280	0.2292	11,930	7,052	-4,878
14	2015	8,050	44,000	52,050	30,770	-21,280	0.2046	10,649	6,296	-4,353
15	2016	8,050	44,000	52,050	30,770	-21,280	0.1827	9,510	5,622	-3,888
16	2017	8,050	44,000	52,050	30,770	-21,280	0.1631	8,489	5,019	-3,470
17	2018	8,050	44,000	52,050	30,770	-21,280	0.1456	7,578	4,480	-3,098
18	2019	8,050	44,000	52,050	30,770	-21,280	0.1300	6,767	4,000	-2,767
19	2020	0	44,000	44,000	30,770	-13,230	0.1161	5,108	3,572	-1,536
20	2021		44,000	44,000	30,770	-13,230	0.1037	4,563	3,191	-1,372
21	2022	:	44,000	44,000	30,770	-13,230	0.0926	4,074	2,849	-1,225
22	2023		44,000	44,000	30,770	-13,230		3,634	2,542	-1,092
- 23	2024		44,000	44,000	30,770	-13,230	0.0738	3,247	2,271	-976
24	2025		44,000	44,000	30,770	-13,230	0.0659	2,900	2,028	-872
25	2026	.1 11	44,000	44,000	30,770	-13,230		2,587	1,809	-778
26	2027		44,000	44,000	30,770	-13,230		2,310	1,615	-695
. 27	2028		44,000	44,000	30,770	-13,230	0.0469	2,064	1,443	-621
28	2029		44,000	44,000	30,770	-13,230	0.0419	1,844	1,289	-555
29	2030		44,000	44,000	30,770	-13,230	0.0374	1,646	1,151	<b>-495</b>
30	2031		44,000	44,000		-13,230		1,470	1,028	-442
31	2032	· .	44,000	44,000	30,770	-13,230	0.0298	1,311	917	-394
32	2033		44,000	44,000	30,770	-13,230	0.0266	1,170	818	-352
33	2034		44,000	44,000	30,770	-13,230	0.0238	1,047	732	-315
34	2035		44,000	44,000	30,770	-13,230	0.0212	933	652	-281
35	2036		44,000	44,000	30,770	-13,230		832	582	-250
36	2037		44,000	44,000		-13,230		744	520	-224
37	2038		44,000	44,000	30,770	-13,230	0.0151	664	465	-199
38	2039		44,000	44,000	30,770	-13,230		594	415	-179
39	2040	-	44,000	44,000	30,770	-13,230	0.0120	528	369	-159
40	2041		44,000	44,000	30,770	-13,230	0.0107	471	329	-142
41	2042		44,000	44,000		-13,230		422	295	-127
42	2043	•	44,000	44,000		-13,230		378	265	-113
43	2044		44,000	44,000		-13,230		334	234	-100
44	2045		44,000	44,000				299	209	-90
45			44,000	44,000		-13,230		268	188	-80
46		•	44,000	44,000		-13,230		238	166	-72
47			44,000	44,000	30,770	-13,230		216	151	-65
48		•	44,000	44,000		-13,230		189	132	-57
		144,900	2,024,000	2,168,900		-784,250		349,061	181,391	-167,670
					,		<del></del>			

N.P.V=	-167,670
B/C=	0.52
EIRR≂	#DIV/0!

46 47						12			•	
45					*					
44										
43										
42			4			•				
41		* * * * * * * * * * * * * * * * * * *			•				• •	
40										•
39			•							
38										
37					•					
36						to a second			-	
35										
34			17,200	17,200	105,000	50, 100	0.0250	1,123	<i>L</i> , 100	. 1,55
33			47,200	47,200		56,480	0.0238	1,123	2,468	1,34
32			47,200	47,200	103,680	56,480	0.0266	1,256	2,758	1,50
31			47,200	47,200		56,480	0.0298	1,407	3,090	1,68
30			47,200	47,200		56,480	0.0374	1,705	3,463	1,88
29			47,200	47,200 47,200	103,680 103,680	56,480 56,480	0.0419	1,765	4,344 3,878	2,36 2,11
27 28			47,200 47,200	47,200	103,680	56,480	0.0469 0.0419	2,214 1,978	4,863	2,64
26		·	47,200	47,200	103,680	56,480	0.0525	2,478	5,443	2,90
25			47,200	47,200	103,680	56,480	0.0588	2,775	6.096	3,32
24		and the second	47,200	47,200	103,680	56,480	0.0659	3,110	6,833	3,77
23			47,200	47,200		56,480	0.0738	3,483	7,652	4,10
22			47,200	47,200	103,680	56,480	0.0826	3,899	8,564	4,60
21			47,200	47,200		56,480	0.0926	4,371	9,601	5,23
20			47,200	47,200		56,480	0.1037	4,895	10,752	5,85
19		0	47,200	47,200	103,680	56,480	0.1161	5,480	12,037	6,55
18		. 0	47,200	47,200		56,480	0.1300	6,136	13,478	7,3
17		0	47,200	47,200		56,480	0.1456	6,872	15,096	8,22
16		0	47,200	47,200		56,480	0.1631	7,698	16,910	9,2
15		. 0	47,200	47,200		56,480	0.1827	8,623	18,942	10,31
14		0	47,200	47,200		56,480	0.2046	9,657	21,213	11,55
13		0	47,200	47,200	103,680	56,480	0.2292	10,818	23,763	12,94
12		0	47,200	47,200	103,680	56,480		12,116	26,615	14,49
11		. 0	47,200	47,200		56,480	0.2875	13,570	29,808	16,23
10	2011	0	47,200	47,200	103,680	56,480	0.3220	15,198	33,385	18,18
9	2010	. 0	47,200	47,200	103,680	56,480	0.3606	17,020	37,387	20,36
8	2009	0	47,200	47,200	103,680	56,480	0.4039	19,064	41,876	22,81
7	2008	0	47,200	47,200	103,680	56,480	0.4523	21,349	46,894	25,54
6	2007	. 0	47,200	47,200	103,680	56,480	0.5066	23,912	52,524	28,61
5	2006	. 0	47,200	47,200	103,680	56,480	0,5674	26,781	58,828	32,04
4	2005	0	47,200	47,200		56,480	0.6355	29,996	65,889	35,89
3	2004	266,600	47,200	313,800		-313,800		223,363	0	-223,36
2	2003	266,600	0	266,600		-266,600	0.7972	212,534	0	-212,53
1	2002	266,600	0	266,600	0	-266,600	0.8929	238,047	0	-238,04

N.P.V=	-350,114
B/C=	0.63
EIRR≃	4.8%

Year         Project Cost         Okt Mocst         Total Lost         Total Benefit         Nemefit         Discount Rate         Cost         Benefit         N.P.V.           2         2002         52,152         0         52,152         0         38293         46,567         0         46,567           3         2004         52,144         0         52,144         0         -52,144         0.7972         41,569         0         41,569           5         2005         52,144         806,180         885,324         1,186,280         327,956         0.6564         487,013         673,958         186,082           6         2007         52,144         806,180         885,324         1,186,280         327,956         0.5674         487,013         673,095         186,082           7         2009         52,144         806,180         885,324         1,186,280         327,956         0.4523         388,202         336,554         148,334           9         2010         52,144         806,180         885,324         1,186,280         327,956         0.4323         388,202         336,554         148,334           10         2011         52,144         806,180         885,324 <th>Lat</th> <th>oie I-13-</th> <th>1 / Establishme</th> <th>ent of coopera</th> <th>ive (Economi</th> <th>c Analysis) (K</th> <th>4-1-9 vastega</th> <th>n)</th> <th><del></del></th> <th>- ·</th> <th>(1,000Rls.)</th>	Lat	oie I-13-	1 / Establishme	ent of coopera	ive (Economi	c Analysis) (K	4-1-9 vastega	n)	<del></del>	- ·	(1,000Rls.)
2002   \$2,152   0   \$2,152   0   \$2,152   0   \$2,152   0   \$4,567   0   \$4,567   3   2004   \$2,144   0   \$2,144   0   \$2,144   0   \$2,144   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   \$3,2144   0   0   0   0   0   0   0   0   0		Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	YS 170.4			NI D XZ
2         2003         \$2,144         0         \$2,144         0         \$2,144         0         \$4,1569         0         44,1569         0         44,1569         0         44,1569         0         44,1569         0         44,1569         0         37,1144         0         31,144         0         52,144         806,180         88,324         1,186,280         327,956         0.6355         545,465         753,881         208,416         80,6180         88,324         1,186,280         327,956         0.5066         487,013         673,095         166,142         70,009         166,142         70,009         166,142         70,009         166,142         70,009         166,142         70,009         166,142         70,009         166,142         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,009         166,022         70,000         70,002         70,002         70,002         70,002         70,002         70,002         70,002         70,0	1	2002	50 150		52 152		52 152	O 9020			
32 2004 \$2,144 \$0,6180 \$83,324 \$1,186,280 \$27,956 \$0,355 \$45,465 \$73,881 \$208,416 \$0 \$2007 \$2,144 \$806,180 \$83,324 \$1,186,280 \$327,956 \$0,5674 \$457,013 \$673,095 \$186,082 \$7 2008 \$2,144 \$806,180 \$83,324 \$1,186,280 \$327,956 \$0,5674 \$457,013 \$673,095 \$186,082 \$7 2008 \$2,144 \$806,180 \$83,324 \$1,186,280 \$327,956 \$0,5674 \$457,013 \$673,095 \$186,082 \$7 2008 \$2,144 \$806,180 \$83,324 \$1,186,280 \$327,956 \$0,4523 \$388,220 \$36,554 \$148,334 \$90,180 \$853,224 \$1,186,280 \$327,956 \$0,4039 \$346,677 \$479,138 \$132,461 \$10 \$2011 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,3606 \$309,512 \$12 \$12 \$10 \$2012 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,3606 \$309,512 \$12 \$12 \$12 \$10 \$2013 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,3200 \$276,380 \$31,982 \$105,602 \$11 \$2012 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,2567 \$20,332 \$41,056 \$94,288 \$13 \$2014 \$52,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,2567 \$20,332 \$41,586,280 \$327,956 \$0,2567 \$20,332 \$41,586,280 \$327,956 \$0,2567 \$20,332 \$41,586,280 \$327,956 \$0,2567 \$20,332 \$41,586,280 \$327,956 \$0,2567 \$20,332 \$42,713 \$67,100 \$15 \$2016 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,02592 \$196,728 \$271,859 \$75,165 \$15 \$2016 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,02592 \$196,728 \$271,859 \$75,165 \$15 \$2016 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,1827 \$156,816 \$24,772 \$172,722 \$47,750 \$15 \$2016 \$2,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,1827 \$156,816 \$24,772 \$172,722 \$47,750 \$18 \$2019 \$52,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,1827 \$156,816 \$24,772 \$172,722 \$47,750 \$18 \$2019 \$52,144 \$806,180 \$853,224 \$1,186,280 \$327,956 \$0,1807 \$13,993 \$193,482 \$34,889 \$100 \$100,700,700,700,700,700,700,700,700,700,						_					
4 2005 \$2,144 \$06,180 \$85,324 \$1,186,280 \$37,956 \$0.6355 \$45,465 \$73,881 \$208,4165 \$2006 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.5664 \$43,827 \$600,969 \$166,142 \$70,008 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.4523 \$882,20 \$36,554 \$148,334 \$82,009 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.4523 \$882,20 \$36,554 \$148,334 \$89,000 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.4693 \$346,677 \$40,9138 \$131,982 \$105,602 \$11 \$2010 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.3606 \$39,512 \$427,773 \$118,261 \$10 \$2011 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.3206 \$390,512 \$427,773 \$118,261 \$11 \$2012 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.3207 \$276,880 \$341,056 \$94,288 \$12 \$2013 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.2875 \$246,768 \$341,056 \$94,288 \$12 \$2013 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.2867 \$20,332 \$304,518 \$84,186 \$12 \$2015 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.2267 \$20,332 \$304,518 \$84,186 \$140 \$10 \$10 \$2017 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.2046 \$175,613 \$24,713 \$67,100 \$15 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.1267 \$156,161 \$216,733 \$59,917 \$10 \$2018 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.1827 \$156,816 \$216,733 \$59,917 \$10 \$2018 \$2,144 \$806,180 \$858,324 \$1,186,280 \$37,956 \$0.1456 \$124,972 \$172,722 \$47,750 \$18 \$2020 \$0 \$806,180 \$806,180 \$1,186,280 \$37,956 \$0.1456 \$124,972 \$172,722 \$47,750 \$18 \$2020 \$0 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.1037 \$83,601 \$23,017 \$39,416 \$2020 \$2021 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.0026 \$74,652 \$109,850 \$35,189 \$2020 \$2023 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.0026 \$66,590 \$74,652 \$109,850 \$35,189 \$2020 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.0026 \$74,652 \$109,850 \$35,189 \$2020 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.0026 \$74,652 \$109,850 \$35,189 \$2020 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.0037 \$40,101 \$43,67 \$13,97 \$27 \$2028 \$806,180 \$806,180 \$1,186,280 \$380,100 \$0.0049 \$33,779 \$40,403 \$34,000 \$33,199 \$2030 \$30,400 \$30,400 \$30,400 \$30,400 \$30,400 \$30,400 \$30,400 \$30,400 \$30,4											
5         2006         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.5074         \$47,013         \$673,095         \$186,082           7         2008         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.5066         \$434,827         \$60,969         \$166,142           8         2009         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.4523         \$388,220         \$365,544         \$448,334           9         2010         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.3606         \$39,512         \$21,2461         \$102         \$21,244         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.3207         \$276,380         \$31,982         \$10,562           12         2013         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.3257         \$246,738         \$31,055         \$94,628           12         2013         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0.2257         \$20,332         \$341,055         \$94,521           15         \$2016 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
6 2007											
7 2008											
8 2009											
9 2010 52,144 806,180 858,324 1,186,280 327,956 0.3606 399,512 427,773 118,261 11 2012 52,144 806,180 858,324 1,186,280 327,956 0.2875 246,768 341,056 94,288 12 2013 52,144 806,180 858,324 1,186,280 327,956 0.2875 226,4678 341,056 94,288 12 2013 52,144 806,180 858,324 1,186,280 327,956 0.2567 220,332 304,518 84,186 12 2015 52,144 806,180 858,324 1,186,280 327,956 0.2046 175,613 242,713 67,100 15 2016 52,144 806,180 858,324 1,186,280 327,956 0.2046 175,613 242,713 67,100 15 2016 52,144 806,180 858,324 1,186,280 327,956 0.1827 156,816 216,733 59,917 15 2018 52,144 806,180 858,324 1,186,280 327,956 0.1827 156,816 216,733 59,917 17 2018 52,144 806,180 858,324 1,186,280 327,956 0.1631 139,993 193,482 53,488 17 2019 52,144 806,180 858,324 1,186,280 327,956 0.1456 124,972 172,722 47,750 18 2019 52,144 806,180 858,324 1,186,280 327,956 0.1456 124,972 172,722 47,750 18 2019 52,144 806,180 886,384 1,186,280 327,956 0.1456 124,972 172,722 47,750 19 2020 0 806,180 806,180 1,186,280 380,100 0.1161 93,597 137,727 44,130 10 2021 806,180 806,180 1,186,280 380,100 0.1037 83,601 123,017 39,416 12 2022 806,180 806,180 1,186,280 380,100 0.0926 74,652 109,850 35,198 12 2023 806,180 806,180 1,186,280 380,100 0.0926 74,652 109,850 35,198 12 2024 806,180 806,180 1,186,280 380,100 0.0738 59,496 87,547 28,051 12 2022 806,180 806,180 1,186,280 380,100 0.0588 47,403 69,753 22,350 12 2028 806,180 806,180 1,186,280 380,100 0.0588 47,403 69,753 22,350 12 2028 806,180 806,180 1,186,280 380,100 0.0588 47,403 69,753 22,350 12 2029 806,180 806,180 1,186,280 380,100 0.0588 47,403 69,753 22,350 12 2020 806,180 806,180 1,186,280 380,100 0.0588 47,403 69,753 22,350 12 2021 806,180 806,180 1,186,280 380,100 0.0069 53,127 78,176 25,049 13 2032 806,180 806,180 1,186,280 380,100 0.0058 42,346 62,280 19,956 13 2034 806,180 1,186,280 380,100 0.0069 53,127 78,176 25,049 13 2034 806,180 1,186,280 380,100 0.0069 53,127 79,176 59,266 13 2034 806,180 806,180 1,186,280 380,100 0.00738 19,187 28,233 90,466 14 2042 806,180 806,180 1,186,280 380,100 0.00738 19,187											
10									and the second second		
11         2012         52,144         806,180         858,324         1,186,280         327,956         0.2875         246,768         341,056         94,288           13         2014         52,144         806,180         858,324         1,186,280         327,956         0.2292         196,728         271,895         75,161           14         2015         52,144         806,180         858,324         1,186,280         327,956         0.2046         175,613         242,713         67,100           15         2016         52,144         806,180         858,324         1,186,280         327,956         0.1631         139,993         193,482         334,991           16         2017         52,144         806,180         858,324         1,186,280         327,956         0.1631         139,993         193,482         34,941           17         2018         52,144         806,180         858,324         1,186,280         327,956         0.1631         139,993         193,482         34,785           17         2018         52,144         806,180         806,180         1,186,280         380,100         0.1161         93,597         137,727         44,130           2021         300,18	-								and the second second		
12         2013         52,144         806,180         858,324         1,186,280         327,956         0.2567         220,332         304,518         84,186           14         2015         52,144         806,180         858,324         1,186,280         327,956         0.2292         196,728         271,895         75,167           14         2015         52,144         806,180         858,324         1,186,280         327,956         0.1827         156,816         216,733         59,917           15         2016         52,144         806,180         858,324         1,186,280         327,956         0.1631         139,993         193,482         53,489           17         2018         52,144         806,180         858,324         1,186,280         327,956         0.1456         124,972         172,722         47,750           18         2019         52,144         806,180         858,324         1,186,280         327,956         0.1300         111,582         154,216         42,634           19         2020         0.021         806,180         806,180         1,186,280         380,100         0.01037         83,601         123,017         39,416           21         2022											
13         2014         \$2,144         806,180         \$88,324         1,186,280         327,956         0.2024         196,728         271,895         75,167           14         2015         \$2,144         806,180         \$858,324         1,186,280         327,956         0.1827         156,816         216,733         59,917           16         2017         \$2,144         806,180         883,324         1,186,280         327,956         0.1631         139,993         193,482         53,489           17         2018         \$2,144         806,180         858,324         1,186,280         327,956         0.1456         124,972         172,722         47,750           18         2019         \$2,144         806,180         858,324         1,186,280         327,956         0.1456         124,972         172,722         47,750           19         2020         0         806,180         806,180         1,186,280         380,100         0.11037         83,601         123,017         39,416           20         2021         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         35,167           21         2022         806,180											
14         2015         \$2,144         806,180         858,324         1,186,280         327,956         0.2046         175,613         242,713         67,100           15         2016         \$2,144         806,180         858,324         1,186,280         327,956         0.1837         156,816         216,733         \$9,917           16         2017         \$2,144         806,180         858,324         1,186,280         327,956         0.1456         124,972         172,722         47,750           18         2019         \$2,144         806,180         858,324         1,186,280         327,956         0.1300         111,582         154,216         42,643           20         2021         806,180         806,180         1,186,280         380,100         0.1037         83,601         123,017         39,416           21         2022         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         31,399           22         2023         806,180         806,180         1,186,280         380,100         0.0738         \$9,496         87,547         28,051           24         2025         806,180         806,180         1,186,280 <td></td> <td></td> <td>and the second second</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			and the second second								
15         2016         52,144         806,180         858,324         1,186,280         327,956         0.1827         156,816         216,733         59,917           16         2017         52,144         806,180         858,324         1,186,280         327,956         0.1631         139,993         193,482         53,489           17         2018         52,144         806,180         858,324         1,186,280         327,956         0.1300         111,582         154,216         42,634           19         2020         0         806,180         806,180         806,180         380,100         0.1161         93,597         137,727         44,130           20         2021         806,180         806,180         1,186,280         380,100         0.1037         38,601         123,017         39,416           21         2022         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,387           22         2023         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,387           24         2025         806,180         806,180         1,186,280											
16         2017         \$2,144         \$806,180         \$58,324         \$1,186,280         \$327,956         \$0,1631         \$139,993         \$193,482         \$3,489           17         2018         \$2,144         \$806,180         \$858,324         \$1,186,280         \$327,956         \$0,1300         \$111,582         \$124,272         \$172,722         \$47,750           18         2019         \$2020         \$0         \$806,180         \$806,180         \$1,186,280         \$380,100         \$0,1161         \$93,597         \$137,727         \$44,130           20         2021         \$806,180         \$806,180         \$1,186,280         \$380,100         \$0,1037         \$3,601         \$23,017         \$9,416           21         2022         \$806,180         \$806,180         \$1,186,280         \$380,100         \$0,026         \$6,590         \$97,987         \$31,397           23         2024         \$806,180         \$806,180         \$1,186,280         \$380,100         \$0,0738         \$9,496         \$7,547         \$28,051           24         2025         \$806,180         \$806,180         \$1,186,280         \$380,100         \$0,0738         \$9,496         \$7,547         \$28,054           2026         \$806,180											
17         2018         52,144         806,180         858,324         1,186,280         327,956         0,1456         124,972         172,722         47,750           18         2019         52,144         806,180         806,180         327,956         0,1300         111,1582         154,216         42,634           19         2020         0         806,180         806,180         1,186,280         380,100         0,1037         83,601         123,017         39,416           20         2021         806,180         806,180         1,186,280         380,100         0,0926         74,652         109,850         35,198           21         2022         806,180         806,180         1,186,280         380,100         0,0926         74,652         109,850         35,198           22         2023         806,180         806,180         1,186,280         380,100         0,0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0,0659         53,127         78,176         25,049           25         2026         806,180         806,180         1,186,280         380,100         0,0558											
18         2019         52,144         806,180         858,324         1,186,280         327,956         0.1300         111,582         154,216         42,634           19         2020         0         806,180         806,180         1,186,280         380,100         0.1037         33,501         123,017         39,416           21         2022         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         35,198           22         2023         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,397           24         2025         806,180         806,180         1,186,280         380,100         0.0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0.0589         35,127         78,176         25,091           25         2026         806,180         806,180         1,186,280         380,100         0.0589         37,127         78,176         29,051         202         202         806,180         806,180         1,186,280         380,100         0.0525         42,324											
19         2020         0         806,180         806,180         1,186,280         380,100         0.1161         93,597         137,727         44,130           20         2021         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         35,198           21         2022         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         35,198           22         2023         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,397           23         2024         806,180         806,180         1,186,280         380,100         0.0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0.0588         47,403         69,753         22,350           25         2026         806,180         806,180         1,186,280         380,100         0.0525         42,324         62,280         19,956           27         2028         806,180         806,180         1,186,280         380,100         0.0419         33,779											
20         2021         806,180         806,180         1,186,280         380,100         0.1037         83,601         123,017         39,416           21         2022         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         35,198           22         2023         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,397           23         2024         806,180         806,180         1,186,280         380,100         0.0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0.0659         53,127         78,176         25,049           25         2026         806,180         806,180         1,186,280         380,100         0.0558         47,403         69,753         22,350           27         2028         806,180         806,180         1,186,280         380,100         0.0469         37,810         55,637         17,827           28         2029         806,180         806,180         1,186,280         380,100         0.0469         37,810         55,637											
21         2022         806,180         806,180         1,186,280         380,100         0.0926         74,652         109,850         35,198           22         2023         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,397           23         2024         806,180         806,180         1,186,280         380,100         0.0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0.0659         53,127         78,176         25,049           25         2026         806,180         806,180         1,186,280         380,100         0.0588         47,403         69,753         22,350           26         2027         806,180         806,180         1,186,280         380,100         0.0469         37,810         55,637         17,827           28         2029         806,180         806,180         1,186,280         380,100         0.0449         33,779         49,705         15,926           29         2030         806,180         806,180         1,186,280         380,100         0.0374         30,151         44,367			0								
22         2023         806,180         806,180         1,186,280         380,100         0.0826         66,590         97,987         31,397           23         2024         806,180         806,180         1,186,280         380,100         0.0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0.0659         53,127         78,176         25,049           25         2026         806,180         806,180         1,186,280         380,100         0.0588         47,403         69,753         22,350           26         2027         806,180         806,180         1,186,280         380,100         0.0588         47,403         69,753         22,350           27         2028         806,180         806,180         1,186,280         380,100         0.0449         37,810         55,637         17,827           28         2029         806,180         806,180         1,186,280         380,100         0.0449         37,810         55,637         17,822           29         2030         806,180         806,180         1,186,280         380,100         0.0374         30,151         44,367											
23         2024         806,180         806,180         1,186,280         380,100         0.0738         59,496         87,547         28,051           24         2025         806,180         806,180         1,186,280         380,100         0.0659         53,127         78,176         25,049           25         2026         806,180         806,180         1,186,280         380,100         0.0588         47,403         69,753         22,350           26         2027         806,180         806,180         1,186,280         380,100         0.0525         42,324         62,280         19,956           27         2028         806,180         806,180         1,186,280         380,100         0.0469         37,810         55,637         17,827           28         2029         806,180         806,180         1,186,280         380,100         0.0419         33,779         49,705         15,926           29         2030         806,180         806,180         1,186,280         380,100         0.0374         30,151         44,367         14,216           30         2031         806,180         806,180         1,186,280         380,100         0.0298         24,024         35,351				and the second s		.,					
24       2025       806,180       806,180       1,186,280       380,100       0.0659       53,127       78,176       25,049         25       2026       806,180       806,180       1,186,280       380,100       0.0588       47,403       69,753       22,350         26       2027       806,180       806,180       1,186,280       380,100       0.0525       42,324       62,280       19,956         27       2028       806,180       806,180       1,186,280       380,100       0.0469       37,810       55,637       17,827         28       2029       806,180       806,180       1,186,280       380,100       0.0419       33,779       49,705       15,926         29       2030       806,180       806,180       1,186,280       380,100       0.0374       30,151       44,367       14,216         30       2031       806,180       806,180       1,186,280       380,100       0.0334       26,926       39,622       12,696         31       2032       806,180       806,180       1,186,280       380,100       0.0298       24,024       35,351       11,327         32       2033       806,180       806,180       1,186,280											
25         2026         806,180         806,180         1,186,280         380,100         0.0588         47,403         69,753         22,350           26         2027         806,180         806,180         1,186,280         380,100         0.0525         42,324         62,280         19,956           27         2028         806,180         806,180         1,186,280         380,100         0.0469         37,810         55,637         17,827           28         2029         806,180         806,180         1,186,280         380,100         0.0419         33,779         49,705         15,926           29         2030         806,180         806,180         1,186,280         380,100         0.0374         30,151         44,367         14,216           30         2031         806,180         806,180         1,186,280         380,100         0.0334         26,926         39,622         12,696           31         2032         806,180         806,180         1,186,280         380,100         0.0298         24,024         35,351         11,327           32         2033         806,180         806,180         1,186,280         380,100         0.0238         19,187         28,233											
26         2027         806,180         806,180         1,186,280         380,100         0.0525         42,324         62,280         19,956           27         2028         806,180         806,180         1,186,280         380,100         0.0469         37,810         55,637         17,827           28         2029         806,180         806,180         1,186,280         380,100         0.0419         33,779         49,705         15,926           29         2030         806,180         806,180         1,186,280         380,100         0.0374         30,151         44,367         14,216           30         2031         806,180         806,180         1,186,280         380,100         0.0334         26,926         39,622         12,696           31         2032         806,180         806,180         1,186,280         380,100         0.0298         24,024         35,351         11,327           32         2033         806,180         806,180         1,186,280         380,100         0.0266         21,444         31,555         10,111           33         2034         806,180         806,180         1,186,280         380,100         0.0238         19,187         28,233					•						
27       2028       806,180       806,180       1,186,280       380,100       0.0469       37,810       55,637       17,827         28       2029       806,180       806,180       1,186,280       380,100       0.0419       33,779       49,705       15,926         29       2030       806,180       806,180       1,186,280       380,100       0.0374       30,151       44,367       14,216         30       2031       806,180       806,180       1,186,280       380,100       0.0334       26,926       39,622       12,696         31       2032       806,180       806,180       1,186,280       380,100       0.0298       24,024       35,351       11,327         32       2033       806,180       806,180       1,186,280       380,100       0.0266       21,444       31,555       10,111         33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280											
28       2029       806,180       806,180       1,186,280       380,100       0.0419       33,779       49,705       15,926         29       2030       806,180       806,180       1,186,280       380,100       0.0374       30,151       44,367       14,216         30       2031       806,180       806,180       1,186,280       380,100       0.0334       26,926       39,622       12,696         31       2032       806,180       806,180       1,186,280       380,100       0.0298       24,024       35,351       11,327         32       2033       806,180       806,180       1,186,280       380,100       0.0266       21,444       31,555       10,111         33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0122       17,091       25,149       8,058         36       2037       806,180       806,180       1,186,280       <											
29       2030       806,180       806,180       1,186,280       380,100       0.0374       30,151       44,367       14,216         30       2031       806,180       806,180       1,186,280       380,100       0.0334       26,926       39,622       12,696         31       2032       806,180       806,180       1,186,280       380,100       0.0298       24,024       35,351       11,327         32       2033       806,180       806,180       1,186,280       380,100       0.0266       21,444       31,555       10,111         33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
30       2031       806,180       806,180       1,186,280       380,100       0.0334       26,926       39,622       12,696         31       2032       806,180       806,180       1,186,280       380,100       0.0298       24,024       35,351       11,327         32       2033       806,180       806,180       1,186,280       380,100       0.0266       21,444       31,555       10,111         33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,744         38       2039       806,180       806,180       1,186,280 <td< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>				-							
31       2032       806,180       806,180       1,186,280       380,100       0.0298       24,024       35,351       11,327         32       2033       806,180       806,180       1,186,280       380,100       0.0266       21,444       31,555       10,111         33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         40       2040       806,180       806,180       1,186,280											
32       2033       806,180       806,180       1,186,280       380,100       0.0266       21,444       31,555       10,111         33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       38											
33       2034       806,180       806,180       1,186,280       380,100       0.0238       19,187       28,233       9,046         34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,											
34       2035       806,180       806,180       1,186,280       380,100       0.0212       17,091       25,149       8,058         35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,1											
35       2036       806,180       806,180       1,186,280       380,100       0.0189       15,237       22,421       7,184         36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,10											
36       2037       806,180       806,180       1,186,280       380,100       0.0169       13,624       20,048       6,424         37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         45       2045       806,180       806,180       1,186,280       380,100<											
37       2038       806,180       806,180       1,186,280       380,100       0.0151       12,173       17,913       5,740         38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         45       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100 <td></td> <td></td> <td>e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A CONTRACTOR OF THE CONTRACTOR</td>			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de								A CONTRACTOR OF THE CONTRACTOR
38       2039       806,180       806,180       1,186,280       380,100       0.0135       10,883       16,015       5,132         39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         44       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100											
39       2040       806,180       806,180       1,186,280       380,100       0.0120       9,674       14,235       4,561         40       2041       806,180       806,180       1,186,280       380,100       0.0107       8,626       12,693       4,067         41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         44       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100       0.0054       4,353       6,406       2,053         47       2048       806,180       806,180       1,186,280       380,100			10 m	•	•						
40         2041         806,180         806,180         1,186,280         380,100         0.0107         8,626         12,693         4,067           41         2042         806,180         806,180         1,186,280         380,100         0.0096         7,739         11,388         3,649           42         2043         806,180         806,180         1,186,280         380,100         0.0086         6,933         10,202         3,269           43         2044         806,180         806,180         1,186,280         380,100         0.0076         6,127         9,016         2,889           44         2045         806,180         806,180         1,186,280         380,100         0.0068         5,482         8,067         2,585           45         2046         806,180         806,180         1,186,280         380,100         0.0061         4,918         7,236         2,318           46         2047         806,180         806,180         1,186,280         380,100         0.0054         4,353         6,406         2,053           47         2048         806,180         806,180         1,186,280         380,100         0.0049         3,950         5,813         1,863										•	
41       2042       806,180       806,180       1,186,280       380,100       0.0096       7,739       11,388       3,649         42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         44       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100       0.0054       4,353       6,406       2,053         47       2048       806,180       806,180       1,186,280       380,100       0.0049       3,950       5,813       1,863         48       2049       806,180       806,180       1,186,280       380,100       0.0043       3,467       5,101       1,634											
42       2043       806,180       806,180       1,186,280       380,100       0.0086       6,933       10,202       3,269         43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         44       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100       0.0054       4,353       6,406       2,053         47       2048       806,180       806,180       1,186,280       380,100       0.0049       3,950       5,813       1,863         48       2049       806,180       806,180       1,186,280       380,100       0.0043       3,467       5,101       1,634											
43       2044       806,180       806,180       1,186,280       380,100       0.0076       6,127       9,016       2,889         44       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100       0.0054       4,353       6,406       2,053         47       2048       806,180       806,180       1,186,280       380,100       0.0049       3,950       5,813       1,863         48       2049       806,180       806,180       1,186,280       380,100       0.0043       3,467       5,101       1,634											
44       2045       806,180       806,180       1,186,280       380,100       0.0068       5,482       8,067       2,585         45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100       0.0054       4,353       6,406       2,053         47       2048       806,180       806,180       1,186,280       380,100       0.0049       3,950       5,813       1,863         48       2049       806,180       806,180       1,186,280       380,100       0.0043       3,467       5,101       1,634											3,269
45       2046       806,180       806,180       1,186,280       380,100       0.0061       4,918       7,236       2,318         46       2047       806,180       806,180       1,186,280       380,100       0.0054       4,353       6,406       2,053         47       2048       806,180       806,180       1,186,280       380,100       0.0049       3,950       5,813       1,863         48       2049       806,180       806,180       1,186,280       380,100       0.0043       3,467       5,101       1,634											2,889
46     2047     806,180     806,180     1,186,280     380,100     0.0054     4,353     6,406     2,053       47     2048     806,180     806,180     1,186,280     380,100     0.0049     3,950     5,813     1,863       48     2049     806,180     806,180     1,186,280     380,100     0.0043     3,467     5,101     1,634								· ·			2,585
47       2048       806,180       806,180       1,186,280       380,100       0.0049       3,950       5,813       1,863         48       2049       806,180       806,180       1,186,280       380,100       0.0043       3,467       5,101       1,634			-	•				and the second second			2,318
48 2049 806,180 806,180 1,186,280 380,100 0.0043 3,467 5,101 1,634											2,053
											1,863
938,600 36,278,100 37,216,700 53,382,600 16,165,900 5,130,538 6,993,237 1,862,699	48	2049						0.0043			1,634
			938,600	36,278,100	37,216,700	53,382,600	16,165,900		5,130,538	6,993,237	1,862,699

N.P.V=	1,862,699
: B/C=	1.36
EIRR=	93.9%

Table L-19-18 Economic Evaluation of the Proposed Prijects (Grand Total)

(1,000Rls.)

<b>4</b> 7	res . 1	(Y) , 1.1	AL D O	· · · · · · · · · · · · · · · · · · ·	I = 1	12%	(1,0001018.)
Year	Total cost	Total benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	1,042,748	0	-1,042,748	0.8929	931,070	0	-931,070
2	1,042,739	0	-1,042,739	0.7972	831,272	0	-831,272
3	1,133,939	0	-1,133,939	0.7118	807,138	0	-807,138
4	1,904,019	2,910,803	1,006,784	0.6355	1,210,004	1,849,815	639,811
5	-1,904,019	2,910,803	1,006,784	0.5674	1,080,340	1,651,590	571,250
6	2,377,555	3,336,393	958,838	0.5066	1,204,469	1,690,217	485,748
7	2,554,684	3,761,983	1,207,299	0,4523	1,155,484	1,701,545	546,061
. 8	2,902,380	4,187,573	1,285,193	0.4039	1,172,271	1,691,361	519,090
9	5,051,501	4,613,163	-438,338	0.3606	1,821,571	1,663,507	-158,064
10	5,399,197	5,038,753	-360,444	0.3220	1,738,541	1,622,478	-116,063
11	5,272,227	5,038,753	-233,474	0.2875	1,515,765	1,448,641	-67,124
12	5,363,927	5,038,753	-325,174	0.2567	1,376,920	1,293,448	-83,472
13	5,363,927		286,336		1,229,412	1,295,040	65,628
14	3,160,127	5,650,263	2,490,136	0.2046	646,562	1,156,044	509,482
15	3,160,127		2,490,136	0.1827	577,355	1,032,303	454,948
16	3,160,127		2,490,136	0.1631	515,417	921,558	406,141
17	3,160,127		2,490,136	0.1456	460,114	822,678	362,564
18	3,160,127	5,650,263	2,490,136	0.1300	410,817	734,534	323,717
19	2,958,060	5,650,263	2,692,203	0.1161	343,431	655,996	312,565
20	2,958,060	5,650,263	2,692,203	0.1037	306,751	585,932	279,181
21	2,958,060	5,650,263	2,692,203	0.0926	273,916	523,214	249,298
22	2,958,060	5,650,263	2,692,203	0.0826	244,336	466,712	222,376
23	2,958,060	5,650,263	2,692,203	0.0738	218,305	416,989	198,684
24	2,958,060	5,650,263	2,692,203	0.0659	194,936	372,352	177,416
25	2,958,060	5,650,263	2,692,203	0.0588	173,934	332,235	158,301
26	2,958,060	5,650,263	2,692,203	0.0525	155,298	296,639	141,34
27	2,958,060	5,650,263	2,692,203	0.0323	138,733	264,997	126,264
28		5,650,263	2,692,203	0.0419	123,943	236,746	112,803
29	2,958,060	5,650,263		0.0419	110,631	211,320	100,689
30	2,958,060	5,650,263	2,692,203 2,692,203	0.0374	98,799	188,719	•
1.	2,958,060			0.0334	•	168,378	89,920
31 32	2,958,060	5,650,263	2,692,203		88,150	150,297	80,228
33	2,958,060	5,650,263	2,692,203	0.0266	78,684	•	71,613
	2,958,060		2,692,203	0.0238 0.0212	70,402	134,476	64,074
34	2,958,060	5,650,263	2,692,203		62,711	119,786	57,075
35	2,958,060		2,692,203	0.0189	55,907	106,790	50,883
36	2,958,060		2,692,203	0.0169	49,991	95,489	45,498
37	2,958,060		2,692,203	0.0151	44,667	85,319	40,652
38	2,958,060	1.1	2,692,203	0.0135	39,934	76,279	36,345
39	2,958,060	5,650,263	2,692,203	0.0120	35,497	67,803	32,306
40	2,958,060	5,650,263	2,692,203	0.0107	31,651	60,458	28,807
41	2,958,060	5,650,263	2,692,203	0.0096	28,397	54,243	25,846
42	2,958,060		2,692,203	0.0086	25,439	48,592	23,153
43	2,958,060		2,692,203	0.0076	22,481	42,942	20,461
44	2,958,060	5,650,263	2,692,203	0.0068	20,115	38,422	18,307
45	2,958,060	5,650,263	2,692,203	0.0061	18,044	34,467	16,423
46	2,958,060	5,650,263	2,692,203	0.0054	15,974	30,511	14,537
47	2,958,060	the state of the s	2,692,203	0.0049	14,494	27,686	13,192
48	2,958,060		2,692,203	0.0043	12,720	24,296	11,576
	145,855,297	240,246,445	94,391,148		21,782,793	26,492,844	4,710,051

N.P.V=	4,710,051
B/C=	1.22
EIRR=	23.5%

Table L-20 Result of Financial and Economic Analysis (K5-19a Chaman Goli-Bazoft)	 	4 1 L	(1,000Rls.)
***************************************	 		(=)-+

Destant	Financial Analysis			Economic Analysis		
Project	NPV	B/C	FIRR	NPV	B/C	EIRR
(1) Construction of check dam	•		_	2,884,381	2.37	33.5%
(2) River treatment	•	, <del>*</del>	-	-667,394	0.11	#NUM!
						4.0
(3) Landslide Protection and Rock-fall protection		-		43,467	1.10	14.2%
(4) Soil erosion protection	_	<u>.</u>		107,976	1.16	16.5%
(5) Rangeland vegetation improvement	_		1	607,819	14.05	355.8%
(6) Forestland vegetation recovery				508,805	34.71	#DIV/0!
(c) a		4.1.4.14		500,005	34.71	#DIVIO:
(7) Increase of irrigated agriculture	377,483	1.23	22.8%	233,064	1.15	18.9%
		100				
(8) Fish culture promotion	865,656	1.05	15.3%	899,234	1.05	15.6%
(9) Diversification to milk cow	2,228,591	1.31	#DIV/0!	2,163,348	1.32	#DIV/0!
	2,220,071	1.01	1011,0.	2,100,040	1.02	πυινιο.
(10) Rural water supply improvement	-246,038	0.74	#NUM!	-231,562	0.74	#NUM!
					41.1	
(11) Rural road improvement	-1,440,729	0.24	#DIV/0!	-1,354,511	0.24	#DIV/0!
(10) Fu 13/1						
(12) Establishment of cooperative	2,243,007	1.22	85.9%	2,533,438	1.28	95.5%
(13) Community enhancement	Intangible	Intangible	Intangible	Intangible	Intangible	Intangible
Total	4,128,174	1.10	20.4%	7,911,475	1.19	24.1%

Table L-20-1 Increase of Agricultural production (Financial Analysis) (K5-19a Chaman Goli-Bazoft)

(1,000Ris.)

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12 50,79 12 45,34 35 40,48
1     2002     110,902     0     -110,902     0     -110,902     0.8929     99,024       2     2003     110,894     0     110,894     0     -110,894     0.7972     88,405       3     2004     110,894     0     110,894     0     -110,894     0.7118     78,934       4     2005     110,894     141,700     252,594     342,108     89,514     0.6355     160,523     217,4       5     2006     110,894     141,700     252,594     342,108     89,514     0.5674     143,322     194,1       6     2007     110,894     141,700     252,594     342,108     89,514     0.5066     127,964     173,3	0 -99,02 0 -88,40 0 -78,93 10 56,88 12 50,79 12 45,34 35 40,48
2     2003     110,894     0     110,894     0     -110,894     0.7972     88,405       3     2004     110,894     0     110,894     0     -110,894     0.7118     78,934       4     2005     110,894     141,700     252,594     342,108     89,514     0.6355     160,523     217,4       5     2006     110,894     141,700     252,594     342,108     89,514     0.5674     143,322     194,1       6     2007     110,894     141,700     252,594     342,108     89,514     0.5066     127,964     173,3	0 -88,40 0 -78,93 10 56,88 12 50,79 12 45,34 35 40,48
3     2004     110,894     0     110,894     0     -110,894     0.7118     78,934       4     2005     110,894     141,700     252,594     342,108     89,514     0.6355     160,523     217,4       5     2006     110,894     141,700     252,594     342,108     89,514     0.5674     143,322     194,1       6     2007     110,894     141,700     252,594     342,108     89,514     0.5066     127,964     173,3	0 -78,93 10 56,88 12 50,79 12 45,34 35 40,48
4     2005     110,894     141,700     252,594     342,108     89,514     0.6355     160,523     217,4       5     2006     110,894     141,700     252,594     342,108     89,514     0.5674     143,322     194,1       6     2007     110,894     141,700     252,594     342,108     89,514     0.5066     127,964     173,3	10 56,88 12 50,79 12 45,34 35 40,48
5     2006     110,894     141,700     252,594     342,108     89,514     0.5674     143,322     194,1       6     2007     110,894     141,700     252,594     342,108     89,514     0.5066     127,964     173,3	12 50,79 12 45,34 35 40,48
6 2007 110,894 141,700 252,594 342,108 89,514 0.5066 127,964 173,3	12 45,34 35 40,48
	35 40,48
7 2008 110,894 141,700 252,594 342,108 89,514 0.4523 114,248 154,7	77 96.15
8 2009 110,894 141,700 252,594 342,108 89,514 0.4039 102,023 138,1	77 36,15
9 2010 110,894 141,700 252,594 342,108 89,514 0.3606 91,085 123,3	64 32,27
10 2011 110,894 141,700 252,594 342,108 89,514 0.3220 81,335 110,1	59 28,82
11 2012 110,894 141,700 252,594 342,108 89,514 0.2875 72,621 98,3	56 25,73
12 2013 110,894 141,700 252,594 342,108 89,514 0.2567 64,841 87,8	19 22,97
13 2014 110,894 141,700 252,594 342,108 89,514 0.2292 57,895 78,4	11 20,51
14 2015 110,894 141,700 252,594 342,108 89,514 0.2046 51,681 69,9	95 18,31
15 2016 110,894 141,700 252,594 342,108 89,514 0.1827 46,149 62,5	•
16 2017 110,894 141,700 252,594 342,108 89,514 0.1631 41,198 55,7	
17 2018 110,894 141,700 252,594 342,108 89,514 0.1456 36,778 49,8	
18 2019 110,894 141,700 252,594 342,108 89,514 0.1300 32,837 44,4	-
19 2020 0 141,700 141,700 342,108 200,408 0.1161 16,451 39,7	
20 2021 141,700 141,700 342,108 200,408 0.1037 14,694 35,4	
21 2022 141,700 141,700 342,108 200,408 0.0926 13,121 31,6	
22 2023 141,700 141,700 342,108 200,408 0.0826 11,704 28,2	
23 2024 141,700 141,700 342,108 200,408 0.0738 10,457 25,2	
24 2025 141,700 141,700 342,108 200,408 0.0659 9,338 22,5	
25 2026 141,700 141,700 342,108 200,408 0.0588 8,332 20,1	
26 2027 141,700 141,700 342,108 200,408 0.0525 7,439 17,9	
27 2028 141,700 141,700 342,108 200,408 0.0469 6,646 16,0	
28 2029 141,700 141,700 342,108 200,408 0.0419 5,937 14,3	
29 2030 141,700 141,700 342,108 200,408 0.0374 5,300 12,7	
30 2031 141,700 141,700 342,108 200,408 0.0334 4,733 11,4	
31 2032 141,700 141,700 342,108 200,408 0.0298 4,223 10,1	
32 2033 141,700 141,700 342,108 200,408 0.0266 3,769 9,1	
33 2034 141,700 141,700 342,108 200,408 0.0238 3,372 8,1	
	53 4,24
35 2036 141,700 141,700 342,108 200,408 0.0189 2,678 6,4	
36 2037 141,700 141,700 342,108 200,408 0.0169 2,395 5,7	
	· ·
40 2041 141,700 141,700 342,108 200,408 0.0107 1,516 3,6	
41 2042 141,700 141,700 342,108 200,408 0.0096 1,360 3,2	
42 2043 141,700 141,700 342,108 200,408 0.0086 1,219 2,9	
43 2044 141,700 141,700 342,108 200,408 0.0076 1,077 2,6	
44 2045 141,700 141,700 342,108 200,408 0.0068 964 2,3	
45 2046 141,700 141,700 342,108 200,408 0.0061 864 2,0	
46 2047 141,700 141,700 342,108 200,408 0.0054 765 1,8	
47 2048 141,700 141,700 342,108 200,408 0.0049 694 1,6	
<u>48 2049                                   </u>	
1,996,100 6,376,500 8,372,600 15,394,860 7,022,260 1,639,277 2,016,7	50 377,48

N.P.V=	377,483
B/C=	1.23
FIRR=	22.8%

Table L-20-2 Fish culture promotion		

	,000	

-			·Z FISH CURIUFE	1.				<del></del>	Ĭ =	12%	(1,000Ris.)
_		Year	Project Cost			Total Benefit		Discount Rate	Cost	Benefit	N.P.V
	1	2002	910,640	0	910,640	0	-910,640	0.8929	813,110	0	-813,110
	2	2003	910,640	0	910,640		-910,640		725,962	0	-725,962
	3	2004	910,640	0	910,640		-910,640		648,194	0	-648,194
	4	2005	910,640	2,681,500	3,592,140		-192,140		2,282,805	2,160,700	122,105
	5	2006	910,640	2,681,500	3,592,140	3,400,000	-192,140		2,038,180	1,929,160	-109,020
	6	2007	0	2,681,500	2,681,500	3,400,000	718,500		1,358,448	1,722,440	363,992
	7	2008	. 0	2,681,500	2,681,500	3,400,000	718,500		1,212,842	1,537,820	324,978
	8	2009	0	2,681,500	2,681,500	3,400,000	718,500	0,4039	1,083,058	1,373,260	290,202
	9	2010	0	2,681,500	2,681,500	3,400,000	718,500		966,949	1,226,040	259,091
	10	2011	. 0	2,681,500	2,681,500	3,400,000	718,500	0.3220	863,443	1,094,800	231,357
	11	2012	0	2,681,500	2,681,500	3,400,000	718,500	and the second s	770,931	977,500	206,569
	12	2013	. 0	2,681,500	2,681,500	3,400,000	718,500		688,341	872,780	184,439
	13	2014	0	2,681,500	2,681,500		718,500		614,600	779,280	164,680
	14	2015	0	2,681,500	2,681,500		718,500		548,635	695,640	147,005
	15	2016	0	2,681,500	2,681,500	3,400,000	718,500		489,910	621,180	131,270
	16	2017	. 0	2,681,500	2,681,500		718,500		437,353	554,540	117,187
	17	2018	0	2,681,500	2,681,500	3,400,000	718,500		390,426	495,040	104,614
	18	2019	0	2,681,500	2,681,500	3,400,000	718,500		348,595	442,000	93,405
	19	2020	0	2,681,500	2,681,500		718,500		311,322	394,740	83,418
	20	2021	1	2,681,500	2,681,500	3,400,000	718,500		278,072	352,580	74,508
	21	2022	٠	2,681,500	2,681,500		718,500		248,307	314,840	66,533
	22	2023		2,681,500	2,681,500		718,500		221,492	280,840	59,348
	23	2024	•	2,681,500	2,681,500	3,400,000	718,500		197,895	250,920	53,025
	24	2025		2,681,500	2,681,500	3,400,000	718,500		176,711	224,060	47,349
	25	2026		2,681,500	2,681,500		718,500		157,672	199,920	42,248
	26	2027		2,681,500	2,681,500	3,400,000	718,500		140,779	178,500	37,721
	27	2028		2,681,500	2,681,500	3,400,000	718,500		125,762	159,460	33,698
	28	2029		2,681,500	2,681,500	3,400,000	718,500		112,355	142,460	30,105
	29 30	2030 2031		2,681,500	2,681,500 2,681,500	3,400,000	718,500 718,500		100,288	127,160	26,872
		2031		2,681,500 2,681,500	2,681,500	3,400,000	718,500		89,562	113,560	23,998
	31 32	2032	•			3,400,000 3,400,000	718,500		79,909	101,320	21,411
	32 33	2033		2,681,500 2,681,500	2,681,500 2,681,500	3,400,000	718,500		71,328	90,440	19,112
	<i>33</i>	2034		2,681,500	2,681,500		718,500		63,820 56,848	80,920	17,100
	35	2036		2,681,500	2,681,500		718,500		50,680	72,080 64,260	15,232 13,580
	36	2037		2,001,500	2,,001,300	3,400,000	710,500	0.0103	30,000	04,200	13,300
	37 37	2038	•			•					A STATE OF THE RESERVE
	38 38	2039			Marine Age				*		
	39 39	2039		•							
	<i>39</i> 40	2040							•		
	41	2042			•						
	42	2043			•					* * .	
	43	2043					•			:	
	44	2045			*.					e grand	
	45	2045								* **	
	46	2047			•				· 1		
	47	2048									100
	48							•			
-			4,553,200	85,808,000	90,361,200	108,800,000	18,438,800		18,764,584	19,630,240	865,656
-			,,		,,	, ,			,	, ,	

N.P.V=	865,656
B/C=	1.05
FIRR=	15.3%

,	Year	Project Cost	O&M Cont	Total Cost	Total Benefit	Not Donne		I = 1	2%	
							Discount Kate	Cost	Benefit	N.P.V
L	2002	0	. 0	0		0	0.8929	0	. 0	
,	2003	. 0	0	. 0	0	0	0.7972	0	0	
	2004	0	0	· 0	0	0	0.7118	, 0	0	
	2005	0	_ · 0	0		0	0.6355	0	0	
	2006	0	0	0		0	0.5674	. 0	0	
	2007	133,840	373,626	507,466		850,334	0.5066	257,082	687,861	430,7
	2008	133,840	747,252	881,092	1,584,100	703,008	0.4523	398,518	716,488	317,9
	2009	133,840	1,120,878	1,254,718	1,810,400	555,682	0.4039	506,781	731,221	224,4
	2010	133,840	1,494,504	1,628,344	2,036,700	408,356	0.3606	587,181	734,434	147,2
)	2011	133,840	1,868,130	2,001,970	2,263,000	261,030	0.3220	644,634	728,686	84,0
1	2012	0	1,868,130	1,868,130	2,263,000	394,870	0.2875	537,087	650,613	113,5
2	2013	0	1,868,130	1,868,130	2,263,000	394,870	0.2567	479,549	580,912	101,3
3	2014	0	1,868,130	1,868,130	2,263,000	394,870	0.2292	428,175	518,680	90,5
1	2015	0	1,868,130	1,868,130	2,263,000	394,870	0.2046	382,219	463,010	80,7
5	2016	0	1,868,130	1,868,130	2,263,000	394,870	0.1827	341,307	413,450	72,1
5	2017	0	1,868,130	1,868,130	2,263,000	394,870	0.1631	304,692	369,095	64,4
7	2018	0	1,868,130	1,868,130	2,263,000	394,870	0.1456	272,000	329,493	57,4
3	2019	0	1,868,130	1,868,130		394,870	0.1300	242,857	294,190	51,3
)	2020	0	1,868,130	1,868,130		394,870	0.1161	216,890	262,734	45,8
	2021		1,868,130	1,868,130		394,870	0.1037	193,725	234,673	40,9
	2022		1,868,130	1,868,130		394,870	0.0926	172,989	209,554	36,5
	2023		1,868,130	1,868,130		394,870	0.0826	154,308	186,924	32,0
	2024		1,868,130	1,868,130		394,870	0.0738	137,868	167,009	29,
	2025		1,868,130	1,868,130		394,870	0.0659	123,110	149,132	26,0
	2026		1,868,130	1,868,130		394,870	0.0588	109,846	133,064	23,2
,	2027		1,868,130	1,868,130		394,870	0.0525	98,077	118,808	20,1
,	2028		1,868,130	1,868,130	2,263,000	394,870	0.0469	87,615	106,135	
3	2029		1,868,130	1,868,130	2,263,000	394,870	0.0419	78,275	94,820	16,
)	2030		1,868,130	1,868,130		394,870	0.0374	69,868	84,636	14,7
)	2031		1,868,130	1,868,130	2,263,000	394,870	0.0334	62,396	75,584	13,1
	2032		1,868,130	1,868,130		394,870	0.0298	55,670	67,437	11,7
	2033		1,868,130	1,868,130		394,870	0.0266	49,692	60,196	10,5
	2034		1,868,130	1,868,130		394,870	0.0238	44,461	53,859	9,3
	2035		1,868,130	1,868,130		394,870	0.0212	39,604	47,976	8,3
	2036		1,868,130	1,868,130		394,870	0.0189	35,308	42,771	7,4
	2037		1,868,130	1,868,130		394,870	0.0169	31,571	38,245	6,6
•	2038		1,868,130	1,868,130	2,263,000	394,870	0.0151	28,209	34,171	5,9
:	2039		1,868,130	1,868,130	2,263,000	394,870	0.0135	25,220	30,551	5,3
)	2040		1,868,130	1,868,130		394,870	0.0120	22,418	27,156	4,7
)	2041			1,868,130		394,870	0.0107	19,989		4,2
	2042		1,000,150	1,000,150	2,203,000	321,010	0.0107	17,707	21,21	,2
	2043		1.			4	•			
	2044		A							
	2045		$\mathcal{F}^{(n)} = \{ e^{-n} \}$							
	2046									
	2040	en en en en en en en en en en en en en e					•			
5 7	2047				•					
	2048									
3	2 <del>1/1</del> /2	669,200	61,648,290	62,317,490	76,942,000	14,624,510		7,239,191	9,467,782	2,228,5

N.P.V=	2,228,591
B/C=	1.31
FIRR=	#DIV/0!

14		4 Kurai water					***************************************	I = 1	2%	(1,000Rls
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1.	2002	116,066	0	116,066	0	-116,066		103,635	0	-103,63
2	2003	116,067	0	116,067	0	-116,067	0.7972	92,529	0	-92,52
3	2004	116,067	104,100	220,167	109,180	-110,987	0.7118	156,715	77,714	79,00
ļ	2005	. 0	104,100	104,100	109,180	5,080		66,156	69,384	3,22
5	2006	0	104,100	104,100		5,080		59,066	61,949	2,88
5	2007	0	104,100	104,100			0.5066	52,737	55,311	2,5
7	2008	. 0	104,100	104,100			0.4523	47,084	49,382	2,29
3	2009	. 0	104,100	104,100	•	5,080	0.4039	42,046	44,098	2,05
•	2010	0	104,100	104,100		5,080	0.3606	37,538	39,370	1,83
ĺ0	2011	0	104,100	104,100		5,080	0.3220	33,520	35,156	1,63
11	2012	0	104,100	104,100		5,080	0.2875	29,929	31,389	1,40
12	2013	0	104,100	104,100				26,722	28,027	1,30
13	2014	ō	104,100	104,100		5,080	0.2292	23,860	25,024	1,16
14	2015	ŏ	104,100	104,100	and the second second	5,080		21,299	22,338	1,03
15	2016	Ö	104,100	104,100				19,019	19,947	92
16	2017	0	104,100	104,100		5,080		16,979	17,807	82
17	2018	0	104,100	104,100		5,080	0.1456	15,157	15,897	74
8	2019	0	104,100	104,100		5,080	0.1300	13,533	14,193	61
19	2020	0	104,100	104,100		5,080		12,086	12,676	59
20	2021		104,100	104,100		5,080		10,795	11,322	5:
21	2022		104,100	104,100		5,080		9,640	10,110	4
2	2023		104,100	104,100		5,080		8,599	9,018	4
3	2024		104,100	104,100		5,080		7,683	8,057	3
بہ 4:4	2025		104,100	104,100		5,080		6,860	7,195	3′
25	2026		104,100	104,100		5,080	0.0588	6,121	6,420	29
 26	2027		104,100	104,100		5,080	0.0585	5,465	5,732	20
27	2027		104,100	104,100		5,080	0.0323	4,882	5,121	2.
28	2029		104,100	104,100		5,080		4,362	4,575	2
29	2029		104,100	104,100		5,080		3,893	4,083	
30		AM STATE								19
	2031		104,100	104,100		5,080		3,477		1
31	2032		104,100	104,100		5,080 5,080		3,102	3,254	. 1:
32	2033		104,100	104,100			0.0266	2,769	2,904	1.
33	2034	-	104,100	104,100	109,180	5,080	0.0238	2,478	2,598	12
34 25	2035		er er er er er		1.		100	and the second		1.0
35	2036				and the second					
36	2037									
37	2038									e de la companya de l
38	2039						. *	. :		
39 10										
0	2041			•						
1	2042									4.
12		•	9.							
13			•			A Commence				
14							•			
15	2046									
46	2047									
47				4,		11 31 1 1			1000	
48	2049					<u> </u>				<u> </u>
		348,200	3,227,100	3,575,300	3,384,580	-190,720		949,736	703,698	-246,03

N.P.V=	-246,038
B/C=	0.74
FIRR=	#NUM!

13	able L-ZU	S Rural road ii	mprovement (	rmanciai Ama	lysis) (K5-19a	Chaman Goli-	-Bazon)	. Y 4	001	(1,000RIs.)
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	I = 1 Cost	2% Benefit	N.P.V
1	2002	451,034	0	451,034	0	-451,034	0.8929	402,728	Denem	-402,728
2	2002	451,034	•	451,034		-451,034		359,564	. 0	-359,564
.: 3	2003	451,033		576,533		-506,483	0.7118	410,376	49,862	-360,514
4	2004	451,033		125,500		-55,450		79,755	44,517	-35,238
: 5	2005	0	125,500	125,500		-55,450 -55,450	0.6533	71,209	39,746	-31,463
	2007			125,500		-55,450		63,578	35,487	-28,091
. 6		0			•	-55,450 -55,450		56,764		-25,080
7	2008	0		125,500			0.4323		31,684	
8	2009	0		125,500		-55,450		50,689	28,293	-22,396
9	2010	0		125,500		-55,450	0.3606	45,255	25,260	-19,995
10		0		125,500		-55,450		40,411	22,556	-17,855
1.		0	•	125,500		-55,450	0.2875	36,081	20,139	-15,942
12		0		125,500		-55,450		32,216	17,982	-14,234
13		0				-55,450	0.2292	28,765	16,055	-12,710
14		0		125,500		-55,450	0.2046	25,677	14,332	-11,345
15		0	•	125,500		-55,450		22,929	12,798	-10,131
10		0		125,500		-55,450		20,469	11,425	-9,044
. 17		0		125,500		-55,450		18,273	10,199	-8,074
18		0		125,500		-55,450		16,315	9,107	-7,208
19		. 0				-55,450		14,571	8,133	-6,438
20			125,500			-55,450		13,014	7,264	-5,750
2			125,500			-55,450		11,621	6,487	-5,134
22			125,500			-55,450	the state of the s	10,366	5,786	-4,580
2			125,500			-55,450		9,262	5,170	4,092
2			125,500			-55,450		8,270	4,616	-3,654
2.			125,500	125,500		-55,450		7,379	4,119	-3,260
- 20			125,500	125,500		-55,450	0.0525	6,589	3,678	-2,911
2			125,500	125,500		-55,450		5,886	3,285	-2,601
28			125,500	125,500		-55,450	0.0419	5,258	2,935	-2,323
25			125,500	125,500		-55,450	0.0374	<b>4,</b> 694	2,620	-2,074
30			125,500	125,500		-55,450		4,192	2,340	-1,852
3:			125,500	125,500		-55,450		3,740	2,087	-1,653
32		4 T	125,500	125,500	-	-55,450	0.0266	3,338	1,863	-1,475
33			125,500	125,500	70,050	-55,450	0.0238	2,987	1,667	-1,320
34										
35		100	$f_{ij} = -i \int_{\mathbb{R}^n} dt  dt$				$f_{ij} = f_{ij}$			
30				-						
3							42			•
. 38			•							
39					* *		4.2		•	
4(				100					:	•
4										
42										
43									*	
44								•	•	•
45							* - *			
. 40					•	•				*,
47										
48	3 2049	<u> </u>	<u> </u>			<u> </u>		<u>, 40 - 1</u> - 1	<u> </u>	·
		1,353,100	3,890,500	5,243,600	2,171,550	-3,072,050		1,892,221	451,492	-1,440,729

 N.P.V=	-1,440,729
 B/C=	0.24
FIRR=	#DIV/0!

T	able L-20-	-6 Establishme	nt of cooperati	ve (Financial	Analysis) (K5-	19a Chaman	Goli-Bazoft)			(1,000RJs.)
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	I = 1 Cost		NIDV
1	2002	73,213	0	73,213	0	-73,213			Benefit	N.P.V
2		73,213		73,213				65,372	0	-65,372
			0			-73,211 73,211		58,364	0	-58,364
3	2004	73,211	1 (22 100	73,211	0 104 000	-73,211		52,112	0	-52,112
4	2005	73,211	1,633,480	1,706,691	2,104,000	397,309		1,084,602	1,337,092	252,490
5	2006	73,211	1,633,480	1,706,691	2,104,000	397,309		968,376	1,193,810	225,434
6	2007	73,211	1,633,480	1,706,691	2,104,000	397,309		864,610	1,065,886	201,276
. 7	2008	73,211	1,633,480	1,706,691	2,104,000	397,309		771,936	951,639	179,703
8	2009	73,211	1,633,480	1,706,691	2,104,000	397,309		689,332	849,806	160,474
. 9	2010	73,211	1,633,480	1,706,691	2,104,000	397,309		615,433	758,702	
. 10		73,211	1,633,480	1,706,691	2,104,000	397,309		549,555	677,488	•
1.		73,211	1,633,480	1,706,691	2,104,000	397,309		490,674	604,900	114,226
12		73,211	1,633,480	1,706,691	2,104,000	397,309		438,108	540,097	101,989
13		73,211	1,633,480	1,706,691	2,104,000	397,309	and the second s	391,174	482,237	91,063
14		73,211	1,633,480	1,706,691	2,104,000	397,309		349,189	430,478	81,289
1.		73,211	1,633,480	<b>1,7</b> 06 <b>,</b> 691	2,104,000	397,309		311,812	384,401	72,589
10		73,211	1,633,480	1,706,691	2,104,000	397,309		278,361	343,162	64,801
11		73,211	1,633,480	1,706,691	2,104,000	397,309		248,494	306,342	57,848
18		73,211	1,633,480	1,706,691	2,104,000	397,309		221,870	273,520	51,650
19	2020	0	1,633,480	1,633,480	2,104,000	470,520	0.1161	189,647	244,274	54,627
20			1,633,480	1,633,480	2,104,000	470,520	0.1037	169,392	218,185	48,793
2.	2022		1,633,480	1,633,480	2,104,000	470,520	0.0926	151,260	194,830	43,570
22	2 2023		1,633,480	1,633,480	2,104,000	470,520	0.0826	134,925	173,790	38,865
2	3 2024		1,633,480	1,633,480	2,104,000	470,520	0.0738	120,551	155,275	34,724
24	2025	•	1,633,480	1,633,480	2,104,000	470,520	0.0659	107,646	138,654	31,008
2.	5 2026		1,633,480	1,633,480	2,104,000	470,520	0.0588	96,049	123,715	27,666
20	5 2027		1,633,480	1,633,480	2,104,000	470,520	0.0525	85,758	110,460	24,702
27	7 2028		1,633,480	1,633,480	2,104,000	470,520	0.0469	76,610	98,678	22,068
28	3 2029	•	1,633,480	1,633,480	2,104,000	470,520	0.0419	68,443	88,158	19,715
29	2030		1,633,480	1,633,480	2,104,000	470,520	0.0374	61,092	78,690	17,598
30	2031		1,633,480	1,633,480	2,104,000	470,520	0.0334	54,558	70,274	15,716
3	2032	-	1,633,480	1,633,480	2,104,000	470,520	0.0298	48,678	62,699	14,021
32	2 2033	•	1,633,480	1,633,480	2,104,000	470,520	0.0266	43,451	55,966	12,515
3.	3 2034		1,633,480	1,633,480	2,104,000	470,520		38,877	50,075	11,198
34	2035		1,633,480	1,633,480	2,104,000	470,520		34,630	44,605	9,975
35			1,633,480	1,633,480	2,104,000	470,520		30,873	39,766	8,893
30			1,633,480	1,633,480	2,104,000	470,520		27,606	35,558	7,952
3			1,633,480	1,633,480	2,104,000	470,520		24,666	31,770	7,104
3			1,633,480	1,633,480	2,104,000	470,520	0.0135	22,052	28,404	6,352
3			1,633,480	1,633,480	2,104,000	470,520		19,602	25,248	5,646
4			1,633,480	1,633,480	2,104,000	470,520	0.0107	17,478	22,513	5,035
4		•	1,633,480	1,633,480		470,520		15,681	20,198	4,517
4:			1,633,480	1,633,480	2,104,000	470,520	0.0086	14,048	18,094	4,046
4			1,633,480	1,633,480	2,104,000	470,520	0.0076	12,414	15,990	3,576
4			1,633,480	1,633,480	2,104,000	470,520	0.0078	11,108	14,307	3,199
4			1,633,480	1,633,480	2,104,000	470,520	0.0061	9,964	12,834	2,870
40			1,633,480	1,633,480	2,104,000	470,520	0.0054	9,90 <del>4</del> 8,821	11,362	
4			1,633,480	1,633,480	2,104,000	470,520			10,310	2,541
								8,004		2,306
48	3 2049	1 217 000	1,633,480	1,633,480	2,104,000	470,520 19,855,600	0.0043	7,024	9,047	2,023
	<u> </u>	1,317,800	73,506,600	74,824,400	94,680,000	19,033,000		10,160,282	12,403,289	2,243,007

N.P.V=	2,243,007
B/C=	1.22
FIRR=	85.9%

Table L-20-7 Financial Evaluation of the Proposed Prijects (Grand Total) (K5-19a Chaman Goli-Bazoft)

(1,000Rls.)

						100/	(1,000Rls.)
Year	Total cost	Total benefit	Net Benefit	Discount Rate	ĭ = ∃ Cost	Benefit	N.P.V
1	1,661,855	0	-1,661,855	0,8929	1,483,870	0	-1,483,870
2	1,661,845	Ö	-1,661,845	0.7972	1,324,823	ŏ	-1,324,823
3	1,891,445	179,230	-1,712,215	0.7118	1,346,331	127,576	-1,218,755
4	5,781,025	6,025,338	244,313	0,6355	3,673,841	3,829,102	155,261
5	5,781,025	6,025,338	244,313	0.5674	3,280,154	3,418,777	138,623
6	5,377,851	7,383,138	2,005,287	0.5066	2,724,419	3,740,298	1,015,879
. 7	5,751,477	7,609,438	1,857,961	0.4523	2,601,393	3,441,749	840,356
8	6,125,103	7,835,738	1,710,635	0.4039	2,473,929	3,164,855	690,926
9	6,498,729	8,062,038	1,563,309	0.3606	2,343,442	2,907,171	563,729
10	6,872,355	8,288,338	1,415,983	0.3220	2,212,898	2,668,845	455,947
11	6,738,515	8,288,338	1,549,823	0.2875	1,937,323	2,382,897	445,574
12	6,738,515	8,288,338	1,549,823	0.2567	1,729,777	2,127,616	397,839
13	6,738,515	8,288,338	1,549,823	0.2292	1,544,468	1,899,687	355,219
14	6,738,515	8,288,338	1,549,823	0.2232	1,378,700	1,695,794	317,094
15	• •	8,288,338	1,549,823	0.2040	1,231,127	1,514,279	283,152
16	6,738,515						-
	6,738,515	8,288,338	1,549,823	0.1631	1,099,052	1,351,828	252,776 225,654
17	6,738,515	8,288,338	1,549,823	0.1456	981,128	1,206,782	•
18	6,738,515	8,288,338	1,549,823	0.1300	876,007	1,077,484	201,477
19	6,554,410	8,288,338	1,733,928	0.1161	760,967	962,276	201,309
20	6,554,410	8,288,338	1,733,928	0.1037	679,692	859,501	179,809
21	6,554,410	8,288,338	1,733,928	0.0926	606,938	767,500	160,562
22	6,554,410	8,288,338	1,733,928	0.0826	541,394	684,617	143,223
23	6,554,410	8,288,338	1,733,928	0.0738	483,715	611,679	127,96
24	6,554,410	8,288,338	1,733,928	0.0659	431,936	546,201	114,26
25	6,554,410	8,288,338	1,733,928	0.0588	385,399	487,354	101,95
26	6,554,410	8,288,338	1,733,928	0.0525	344,107	435,138	91,031
27	6,554,410	8,288,338	1,733,928	0.0469	307,402	388,723	81,321
28	6,554,410	8,288,338	1,733,928	0.0419	274,630	347,281	72,65
- 29	6,554,410	8,288,338	1,733,928	0.0374	245,135	309,984	64,849
30	6,554,410	8,288,338	1,733,928	0.0334	218,917	276,830	57,913
31	6,554,410	8,288,338	1,733,928	0.0298	195,321	246,992	51,671
32	6,554,410	8,288,338	1,733,928	0.0266	174,347	220,470	46,123
33	6,554,410	8,288,338	1,733,928	0.0238	155,995	197,262	41,267
34	6,554,410	8,288,338	1,733,928	0.0212	138,953	175,713	36,760
.35	6,554,410	8,288,338	1,733,928	0.0189	123,878	156,650	32,772
36	6,554,410	8,288,338	1,733,928	0.0169	110,770	140,073	29,303
37	6,554,410	8,288,338	1,733,928	0.0151	98,972	125,154	26,182
38	6,554,410	8,288,338	1,733,928	0.0135	88,485	111,893	23,408
39	6,554,410	8,288,338	1,733,928	0.0120	78,653	99,460	20,807
40	6,554,410	8,288,338	1,733,928	0.0107	70,132	88,685	18,553
41	6,554,410	8,288,338	1,733,928	0.0096	62,922	79,568	16,646
42	6,554,410	8,288,338	1,733,928	0.0086	56,368	71,280	14,912
43	6,554,410	8,288,338	1,733,928	0.0076	49,814	62,991	13,177
44	6,554,410	8,288,338	1,733,928	0.0068	44,570	56,361	11,791
45	6,554,410	8,288,338	1,733,928	0.0061	39,982	50,559	10,577
46	6,554,410	8,288,338	1,733,928	0.0054	35,394	44,757	9,363
47	6,554,410	8,288,338	1,733,928	0.0049	32,117	40,613	8,496
48	6,554,410	8,288,338	1,733,928	0.0043	28,184	35,640	7,456
	297,943,130	366,365,440	68,422,310		41,107,771	45,235,945	4,128,174

N.P.V=	4,128,174
B/C=	1.10
EIRR=	20.4%

٦	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Repetit		I = 1		
			·				Discount Kate	Cost	Benefit	N.P.V
1	2002	384,475	0	384,475	and the second second	-384,475	0.8929	343,298	0	-343,29
2	2003	384,475	0	384,475		-384,475	0.7972	306,503	0	-306,50
3	2004	384,475	0	384,475		-384,475	0.7118	273,669	0	-273,66
4	2005	384,475	34,500	418,975		439,415	0.6355	266,259	545,507	279,24
5	2006	384,475	34,500	418,975		439,415	0.5674	237,726	487,050	249,32
5	2007	384,475	34,500	418,975		439,415	0.5066	212,253	434,860	222,60
7	2008	384,475	34,500	418,975		439,415	0.4523	189,502	388,250	198,74
3.	2009	384,475	34,500	418,975		439,415	0.4039	169,224	346,704	177,48
)	2010	. 0	34,500	34,500		823,890	0.3606	12,441	309,535	297,09
0	2011 .	. 0	34,500	34,500		823,890	0.3220	11,109	276,402	265,29
1	2012	0	34,500	34,500		823,890	0.2875	9,919	246,787	236,80
2	2013	0	34,500	34,500		823,890	0.2567	8,856	220,349	211,49
13	2014	: 0	34,500	34,500	858,390	823,890	0.2292	7,907	196,743	188,83
14	2015	• 0	34,500	34,500	858,390	823,890	0.2046	7,059	175,627	168,50
15	2016	0	34,500	34,500	858,390	823,890	0.1827	6,303	156,828	150,52
6	2017	0	34,500	34,500	858,390	823,890	0.1631	5,627	140,003	134,3
.7	2018	0	34,500	34,500	858,390	823,890	0.1456	5,023	124,982	119,9
8	2019	0	34,500	34,500	858,390	823,890	0.1300	4,485	111,591	107,10
9	2020	0	34,500	34,500	858,390	823,890	0.1161	4,005	99,659	95,6
0.	2021		34,500	34,500	858,390	823,890	0.1037		89,015	85,4
1	2022		34,500	34,500	858,390	823,890	0.0926	3,195	79,487	76,2
2	2023		34,500	34,500	858,390	823,890	0.0826	2,850	70,903	68,0
3	2024		34,500	34,500		823,890	0.0738	2,546		60,8
4	2025		34,500	34,500	858,390	823,890		2,274	56,568	54,2
5	2026	٠	34,500	34,500	858,390	823,890	0.0588	2,029	50,473	48,4
6	2027		34,500	34,500	858,390	823,890	0.0525	1,811	45,065	43,2
7	2028		34,500	34,500		823,890	0.0469	1,618	40,258	38,6
8	2029		34,500	34,500		823,890	0.0419	1,446	35,967	34,5
9	2030		34,500	34,500		823,890	0.0374	1,290	32,104	30,8
0	2031		34,500	34,500		823,890	0.0334	1,152	28,670	27,5
1	2032	•	34,500	34,500		823,890	0.0298	1,028	25,580	24,5
2	2033	*	34,500	34,500		823,890	0.0266	918	22,833	21,9
13	2034		34,500	34,500		823,890	0.0238	821	20,430	19,6
4	2035	4	34,500	34,500		823,890	0.0212	731	18,198	17,4
5	2036		34,500	34,500		823,890	0.0189	652	16,224	15,5
6	2037		34,500	34,500		823,890	0.0169	583	14,507	13,9
7	2038		34,500	34,500		823,890	0.0151	521	12,962	12,4
8	2039		34,500	34,500		823,890	0.0135	466	11,588	11,1
9	2040	*		,		02,0			11,500	**,*
0	2041	÷						1. %	4 1 1	
1	2042									
2	2043			100						
3	2044						* .			
14	2045		2				and the second			
45	2046				. '.					
46	2047		•			100				
47	2048					*,				
										- Landa (A.)
48	2049					and the second second second			and the second second second	

N.P.V≕	2,884,381
B/C=	2.37
EIRR=	33.5%

	10 13 130				3-19a Chaman		,	I = 1	20%	(1,000Ris.)
•	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
1	2002	0	0	0	0	0		0	0	(
2	2003	. 0	0	C	0	0	0.7972	0	0	C
3	2004	0	0	C	. 0	0	0.7118	0	0	0
4	2005	0	. 0	C	0	. 0		0	0	(
5	2006	0	0	C	0	0		0	0	(
6	2007	- 0	0	· C		0		0	0	(
7	2008	. 0	0	C	0	0		0	0	(
8	2009	0	0	C		. 0		. 0	0	(
9	2010	468,000	0	468,000		-468,000		168,761	0	-168,761
10	2011	468,000	0	468,000		-468,000		150,696	0	-150,696
11	2012	468,000	0	468,000		-468,000		134,550	o o	-134,550
12	2013	468,000	29,600	497,600		-461,990		127,734	9,141	-118,593
13	2014	468,000	29,600	497,600		-461,990		114,050	8,162	-105,888
14	2015	0	29,600	29,600		6,010		6,056	7,286	1,230
15	2016	. 0	29,600	29,600		6,010		5,408	6,506	1,098
16	2017	o	29,600	29,600		6,010		4,828	5,808	980
17	2018	ő	29,600	29,600		6,010		4,310	5 <b>,1</b> 85	875
18	2019	o o	29,600	29,600		6,010		3,848	4,629	781
19	2020	ő	29,600	29,600		6,010		3,437	4,134	697
20	2021		29,600	29,600		6,010		3,070	3,693	623
21	2022		29,600	29,600		6,010		2,741	3,297	550
22	2023	7.	29,600	29,600		6,010		2,445	2,941	490
23	2023		29,600	29,600		6,010		2,184	2,628	444
24	2025	•	29,600	29,600		6,010		1,951	2,347	390
25	2026		29,600	29,600		6,010		1,740	2,094	354
26	2027		29,600	29,600		6,010		1,554	1,870	. 310
27	2028		29,600	29,600		6,010		1,388	1,670	282
28	2029		29,600	29,600		6,010		1,240	1,492	257
29	2030		29,600	29,600		6,010		1,107	1,332	225
30	2031		29,600	29,600		6,010		989	1,189	200
31	2032		29,600	29,600		6,010		882	1,061	179
32	2032		29,600	29,600		6,010		787	947	160
33	2033		29,600	29,600		6,010		704	848	144
34	2035		29,600	29,600		6,010		628	755	127
35	2036		29,600	29,600		6,010		559	673	114
36	2037		29,600	29,600		6,010		500	602	102
37	2038		29,600	29,600		6,010		447	538	91
38	2039		29,600	29,600		6,010		400	481	81
39	2039		29,600	29,600		6,010		355	427	72
<i>39</i> 40	2040		29,600	29,600		6,010		333 317	381	64
41	2041	1.	29,600	29,600	•	6,010		284	342	. 58
42	2042		29,600	29,600		6,010		255	306	51
43	2043		29,600	29,600		6,010		233	271	4(
44	2045		25,000	22,000	33,010	0,010	0.0076	. 443	2/1	40
45	2043						•			
45 46	2046									
47	2048 2049									
48	2049	2,340,000	947,200	3,287,200	1,139,520	-2,147,680	· · · · · · · · · · · · · · · · · · ·	750,430	83,036	-667,394

N.P.V≔	-667,394
B/C=	0.11
EIRR=	#NUM!

Table L-20-10 Landsilde Protection and Rock-fall	protection (Economic Ana	dysis) (K5	5-19a Chaman (	Goli-Bazoft)

(1,000RIs	ŝ,
-----------	----

		326,000	812,200	1,138,200	2,276,640	1,138,440		429,877	473,344	43,467
48			:	<u> </u>			·	· · · · · · · · · · · · · · · · · · ·		
47	2048							•		
46										
45										
44						•	* .			-
43	2044					•				100
42										•
41	2041	•		•		•				
40	2040				-				* a	
- 39		. *	*							
38	2039									
30 37	2037					•				
35 36	2036 2037		to the second	•						
					•					•
33	2034 2035		26,200	26,200	73,440	47,240	0.0238	624	1,748	1,124
32 33	2033	$\mathcal{L}_{\mathcal{L}}}}}}}}}}$	26,200	26,200		47,240		697 624	1,954	1,257
31	2032	:	26,200	26,200		47,240		781	2,189	1,408
30	2031		26,200	26,200		47,240		875	2,453	1,578
29	2030		26,200	26,200		47,240		980	2,747	1,767
28	2029	•	26,200	26,200		47,240		1,098	3,077	1,979
27	2028		26,200	26,200		47,240		1,229	3,444	2,215
26	2027		26,200	26,200		47,240		1,376	3,856	2,480
25	2026		26,200	26,200		47,240		1,541	4,318	2,777
24	2025		26,200	26,200		47,240		1,727	4,840	3,113
23	2024		26,200	26,200		47,240		1,934	5,420	3,486
22	2023		26,200	26,200		47,240		2,164	6,066	3,902
21	2022		26,200	26,200		47,240		2,426	6,801	4,375
20	2021		26,200	26,200		47,240		2,717	7,616	4,899
19	2020	. 0	26,200	26,200		47,240		3,042	8,526	5,484
18	2019	0	26,200	26,200		47,240		3,406	9,547	6,141
17	2018	. 0	26,200	26,200	73,440	47,240		3,815	10,693	6,878
- 16	2017	0	26,200	26,200	73,440	47,240	0.1631	4,273	11,978	7,705
15	2016	0	26,200	26,200		47,240		4,787	13,417	. 8,630
14	2015	. 0	26,200	26,200		47,240	0.2046	5,361	15,026	9,665
13	2014	0	26,200	26,200		47,240		6,005	16,832	10,827
12	2013	. 0	26,200	26,200		47,240		6,726	18,852	12,126
11	2012	0	26,200	26,200		47,240		7,533	21,114	13,581
10	2011	0	26,200	26,200		47,240		8,436	23,648	15,212
9	2010	0	26,200	26,200	•	47,240		9,448	26,482	17,034
8	2009	0	26,200	26,200		47,240		10,582	29,662	19,080
7	2008	ő	26,200	26,200		47,240		11,850	33,217	21,367
6	2007	. 0	26,200	26,200		47,240		13,273	37,205	23,932
5	2006	0	26,200	26,200		47,240		14,866	41,670	26,804
4	2005	0	26,200	26,200		47,240		16,650	46,671	30,021
3	2004	108,667	26,200	134,867		-61,427	0.7118	95,998	52,275	-43,723
2	2003	108,667	0	108,667		-108,667		86,629	ő	-86,629
1	2002	108,666	. 0	108,666	0	-108,666		97,028	0	-97,028
	Year	Project Cost	O&M Cost	Total Cost	Total Benefit	Net Benefit	Discount Rate	Cost	Benefit	N.P.V
			<del></del>				(K5-19a Chamai	I = 1		(1,000RIs,
* ***		** **********			.0011011 ( ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ino i biai joio i	(		• /	(-,

N.P.V=	43,467
B/C=	1.10
EIRR=	14.2%