

Table C.2.22 Agricultural EAP by Occupational types  
in Jiboa River Basin : 1992 (1/2)

	Agricultural EAP in river basin		Farmer & skilled laborer		Unskilled laborer	
	% of gender	number	% in total	number	% in total	number
La Paz		10,204	46.2	4,714	52.2	5,326
men	95.0	9,694	47.3	4,585	51.1	4,956
women	5.0	510	25.3	129	72.6	370
Cuscatlan		7,868	49.0	3,855	50.0	3,934
men	96.1	7,561	49.9	3,773	49.2	3,720
women	3.9	307	27.2	82	69.1	214
San Vicente		2,244	49.0	1,100	50.1	1,124
men	96.4	2,163	49.6	1,073	49.4	1,069
women	3.6	81	32.3	27	67.0	55
San Salvador		3,551	42.5	1,509	49.8	1,509
men	92.5	3,285	44.1	1,449	48.9	1,450
women	7.5	266	22.1	60	61.1	59
Total		23,867	46.8	11,178	49.8	11,893
men	95.1	22,703	47.9	10,880	49.3	11,195
women	4.9	1,164	25.6	298	59.9	698

Note: These are calculated by each rate in 1992 Census.

Table C.2.22 Continued : 1996 (2/2)

	Agricultural EAP in river basin		Farmer & skilled laborer		Unskilled laborer	
	% of gender	number	% in total	number	% in total	number
La Paz		10,929	46.2	5,049	52.2	5,705
men	95.0	10,383	47.3	4,911	51.1	5,305
women	5.0	546	25.3	138	72.6	400
Cuscatlan		8,427	49.0	4,129	50.0	4,214
men	96.1	8,098	49.9	4,041	49.2	3,984
women	3.9	329	27.2	88	69.1	230
San Vicente		2,403	49.0	1,177	50.1	1,204
men	96.4	2,316	49.6	1,149	49.4	1,143
women	3.6	87	32.3	28	67.0	61
San Salvador		3,803	42.5	1,616	49.8	1,616
men	92.5	3,518	44.1	1,551	48.9	1,552
women	7.5	285	22.1	65	61.1	64
Total		25,562	46.8	11,971	49.8	12,739
men	95.1	24,315	47.9	11,652	49.3	11,984
women	4.9	1,247	25.6	319	60.6	755

Note: These are calculated by each rate in 1992 Census.

Table C. 2.23 Condition of Employment in Economically Active Population of Agriculture in the relevant Departments  
: La Paz (1/6)

Area	Gender	Type of occupation	Total	Employees & laborers		Patrons & employers	Family labor (no salary)		Independent laborers	Domestics	Cooperators	Indistinct
				Public	Private							
	total	total	71,675	6,193	31,197	328	2,342	24,043	2,501	2,987	2,084	
		farmers and skilled laborers in farming & fishery	17,009	33	1,086	43	147	13,876	54	1,721	49	
men	total	total	54,812	4,396	26,680	248	2,072	17,951	357	2,700	408	
		farmers and skilled laborers in farming & fishery	16,522	31	1,030	42	143	13,605	53	1,577	41	
women	total	total	16,863	1,797	4,517	80	270	6,092	2,144	287	1,676	
		farmers and skilled laborers in farming & fishery	487	2	56	1	4	271	1	144	8	
urban	total	total	29,410	4,813	12,260	171	457	9,257	1,212	264	976	
		farmers and skilled laborers in farming & fishery	3,605	15	230	11	24	3,142	12	159	12	
men	total	total	19,717	3,277	9,765	111	366	5,694	104	250	150	
		farmers and skilled laborers in farming & fishery	3,504	15	209	11	23	3,069	12	156	9	
women	total	total	9,693	1,536	2,495	60	91	3,563	1,108	14	826	
		farmers and skilled laborers in farming & fishery	101	0	21	0	1	73	0	3	3	
rural	total	total	42,265	1,380	18,937	157	1,885	14,786	1,289	2,723	1,108	
		farmers and skilled laborers in farming & fishery	13,404	18	856	32	123	10,784	42	1,562	37	
men	total	total	35,095	1,119	16,915	137	1,706	12,257	253	2,450	258	
		farmers and skilled laborers in farming & fishery	13,018	16	821	31	120	10,536	41	1,421	32	
women	total	total	7,170	261	2,022	20	179	2,529	1,036	273	850	
		farmers and skilled laborers in farming & fishery	386	2	35	1	3	198	1	141	5	

Source: Censos Nacionales V de Poblacion y IV de Vivienda 1992.

Table C.2.23 Continued : Cuscatlan (2/6)

Area	Gender	Type of occupation	Total	Employees & laborers		Patrons & employers	Family labor (no salary)	Independent laborers	Domestics	Cooperators	Indistinct
				Public	Private						
	total	total	58,564	4,316	24,188	236	2,314	18,959	1,378	483	1,240
		farmers and skilled laborers in farming & fishery	12,402	22	465	25	59	11,386	29	377	39
	men	total	40,685	3,100	19,769	185	2,050	14,608	122	465	386
		farmers and skilled laborers in farming & fishery	12,141	22	447	24	57	11,167	29	364	31
	women	total	12,879	1,216	4,369	51	264	4,351	1,756	18	854
		farmers and skilled laborers in farming & fishery	261	0	18	1	2	219	0	13	8
	urban	total	21,410	3,256	9,924	162	299	6,230	960	35	544
		farmers and skilled laborers in farming & fishery	1,901	9	100	3	8	1,748	8	15	10
	men	total	14,162	2,162	7,479	120	230	3,950	54	35	132
		farmers and skilled laborers in farming & fishery	1,863	9	95	2	8	1,717	8	15	9
	women	total	7,248	1,094	2,445	42	69	2,280	906	0	412
		farmers and skilled laborers in farming & fishery	38	0	5	1	0	31	0	0	1
	rural	total	32,154	1,060	14,214	74	2,015	12,729	918	448	696
		farmers and skilled laborers in farming & fishery	10,501	13	365	22	51	9,638	21	362	29
	men	total	26,523	938	12,290	65	1,820	10,658	68	430	254
		farmers and skilled laborers in farming & fishery	10,278	13	352	22	49	9,450	21	349	22
	women	total	5,631	122	1,924	9	195	2,071	850	18	442
		farmers and skilled laborers in farming & fishery	223	0	13	0	2	188	0	13	7

Source: Censos Nacionales V de Poblacion y IV de Vivienda 1992.

Table C. 2. 23 Continued : San Vicente (3/6)

Area	Gender	Type of occupation	Total	Employees & laborers		Patrons & employers	Family labor (no salary)	Independent laborers		Domestics	Cooperators	Indistinct
				Public	Private							
	total	total	41,387	4,285	15,292	143	3,242	15,521	980	544	1,380	
		farmers and skilled laborers in farming & fishery	12,188	23	245	39	230	11,145	11	373	122	
	men	total	33,023	2,743	13,405	118	3,010	12,892	46	486	323	
		farmers and skilled laborers in farming & fishery	11,885	22	223	38	224	10,920	11	342	105	
	women	total	8,364	1,542	1,887	25	232	2,629	934	58	1,057	
		farmers and skilled laborers in farming & fishery	303	1	22	1	6	225	0	31	17	
	urban	total	18,390	3,690	6,899	94	640	5,791	580	86	610	
		farmers and skilled laborers in farming & fishery	3,021	6	94	21	67	2,742	4	70	17	
	men	total	12,763	2,256	5,664	73	553	4,017	21	73	106	
		farmers and skilled laborers in farming & fishery	2,956	5	88	21	66	2,695	4	63	14	
	women	total	5,627	1,434	1,235	21	87	1,774	559	13	504	
		farmers and skilled laborers in farming & fishery	65	1	6	0	1	47	0	7	3	
	rural	total	22,997	595	8,393	49	2,602	9,780	400	458	770	
		farmers and skilled laborers in farming & fishery	9,167	17	151	18	163	8,403	7	303	105	
	men	total	20,260	487	7,741	45	2,457	8,875	25	413	217	
		farmers and skilled laborers in farming & fishery	8,929	17	135	17	158	8,225	7	279	91	
	women	total	2,737	108	652	4	145	855	375	45	553	
		farmers and skilled laborers in farming & fishery	238	0	16	1	5	178	0	24	14	

Source: Censos Nacionales V de Poblacion y IV de Vivienda 1992.

Table C.2.23 Continued : San Salvador (4/6)

Area	Grade	Type of occupation	Total	Employees & laborers		Patrons & employers	Family labor (no salary)	Independent laborers	Domestics	Cooperator	Indistinct
				Public	Private						
	total	total	567,766	79,968	307,200	7491	6,774	112,647	37,847	1,992	13,847
		farmers and skilled laborers in farming & fishery	18,147	351	2,014	117	198	13,597	727	1,071	72
	men	total	341,131	52,471	207,116	5,183	4,611	62,591	2,759	1,745	4,655
		farmers and skilled laborers in farming & fishery	17,447	338	1,821	115	188	13,228	714	978	55
	women	total	226,635	27,497	100,084	2,308	2,163	50,056	35,088	247	9,192
		farmers and skilled laborers in farming & fishery	700	13	193	2	10	369	13	93	7
	urban	total	475,030	73,135	255,509	6,883	4,071	89,525	33,792	643	11,472
		farmers and skilled laborers in farming & fishery	6,109	273	1,212	73	69	3,640	590	209	43
	men	total	274,901	47,106	167,596	4,753	2,320	46,422	2,285	519	3,900
		farmers and skilled laborers in farming & fishery	5,809	260	1,089	71	68	3,522	581	180	38
	women	total	200,129	26,029	87,913	2,130	1,751	43,103	31,507	124	7,572
		farmers and skilled laborers in farming & fishery	300	13	123	2	1	118	9	29	5
	rural	total	92,736	6,833	51,691	608	2,703	23,122	4,055	1,349	2,375
		farmers and skilled laborers in farming & fishery	12,038	78	802	44	129	9,957	137	862	29
	men	total	66,230	5,365	39,520	430	2,291	16,169	474	1,226	755
		farmers and skilled laborers in farming & fishery	11,638	78	732	44	120	9,706	133	798	27
	women	total	26,506	1,468	12,171	178	412	6,953	3,581	123	1,620
		farmers and skilled laborers in farming & fishery	400	0	70	0	9	251	4	64	2

Source: Censos Nacionales V de Poblacion y IV de Vivienda 1992.

Table C. 2. 23 Continued : Total Relevant Area (5/6)

Area	Gende	Type of occupation	Total		Employees & laborers		Patrons & employers	Family labor (no salary)	Independent laborers	Domestics	Cooperator	Indistinct
			Public	Private	Public	Private						
	total	total	734,392	94,762	377,827	8,198	14,672	171,170	43,206	6,006	18,551	
		farmers and skilled laborers in farming & fishery	59,746	429	3,810	224	634	50,004	821	3,542	282	
	men	total	469,651	62,710	266,970	5,734	11,743	108,042	3,284	5,396	5,772	
		farmers and skilled laborers in farming & fishery	57,995	413	3,521	219	612	48,920	807	3,261	242	
	women	total	264,741	32,052	110,857	2,464	2,929	63,128	39,922	610	12,779	
		farmers and skilled laborers in farming & fishery	1,751	16	289	5	22	1,084	14	281	40	
	urban	total	544,240	84,894	284,592	7,310	5,467	110,803	36,544	1,028	13,602	
		farmers and skilled laborers in farming & fishery	14,636	303	1,636	108	168	11,272	614	453	82	
	men	total	321,543	54,801	190,504	5,057	3,469	60,083	2,464	877	4,288	
		farmers and skilled laborers in farming & fishery	14,132	289	1,481	105	165	11,003	605	414	70	
	women	total	222,697	30,093	94,088	2,253	1,998	50,720	34,080	151	9,314	
		farmers and skilled laborers in farming & fishery	504	14	155	3	3	269	9	39	12	
	rural	total	190,152	9,868	93,235	888	9,205	60,367	6,662	4,978	4,949	
		farmers and skilled laborers in farming & fishery	45,110	126	2,174	116	466	38,732	207	3,089	200	
	men	total	148,108	7,909	76,466	677	8,274	47,959	820	4,519	1,484	
		farmers and skilled laborers in farming & fishery	43,863	124	2,040	114	447	37,917	202	2,847	172	
	women	total	42,044	1,959	16,769	211	931	12,408	5,842	459	3,465	
		farmers and skilled laborers in farming & fishery	1,247	2	134	2	19	815	5	242	28	

Source: Censos Nacionales V de Poblacion y IV de Vivienda 1992.

Table C. 2. 23 Continued : El Salvador (6/6)

Area	Conde	Type of occupation	Total	Employees & laborers		Patrons & employers	Family labor (no salary)	Independent laborers	Domestics	Cooperator	Indistinct
				Public	Private						
		total total	1,658,678	174,000	747,755	14,767	90,729	475,467	81,161	26,330	48,469
		farmers and skilled laborers in farming & fishery	277,011	977	15,266	780	4,534	237,176	1,259	15,751	1,268
	men	total	1,181,290	116,475	574,473	10,685	81,110	351,824	6,240	23,476	17,007
		farmers and skilled laborers in farming & fishery	269,796	926	14,420	755	4,348	232,718	1,230	14,299	1,100
	women	total	477,388	57,525	173,282	4,082	9,619	123,643	74,921	2,854	31,462
		farmers and skilled laborers in farming & fishery	7,215	51	846	25	186	4,458	29	1,452	168
	urban	total total	925,166	147,120	443,053	12,065	15,098	218,001	59,581	3,024	27,224
		farmers and skilled laborers in farming & fishery	48,782	553	4,248	324	679	40,414	801	1,519	244
	men	total	567,355	94,740	309,536	8,473	10,951	128,285	3,923	2,627	8,920
		farmers and skilled laborers in farming & fishery	47,407	522	3,957	316	660	39,564	787	1,397	204
	women	total	357,811	52,380	133,517	3,592	4,247	89,716	55,658	397	18,304
		farmers and skilled laborers in farming & fishery	1,375	31	291	8	19	850	14	122	40
	rural	total total	733,512	26,880	304,702	2,702	75,631	257,466	21,580	23,306	21,245
		farmers and skilled laborers in farming & fishery	228,229	424	11,018	456	3,855	196,762	458	14,232	1,024
	men	total	613,935	21,735	264,937	2,212	70,259	223,539	2,317	20,849	8,087
		farmers and skilled laborers in farming & fishery	222,389	404	10,463	439	3,688	193,154	443	12,902	896
	women	total	119,577	5,145	39,765	490	5,372	33,927	19,263	2,457	13,158
		farmers and skilled laborers in farming & fishery	5,840	20	555	17	167	3,608	15	1,330	128

Source: Censos Nacionales V de Poblacion y IV de Vivienda 1992.

Table C. 2. 24 Conditions of Employment of Agricultural Economically Active Population  
in Jiboa River Basin : 1992 (1/2)

	Agricultural EAP in Basin		Independent laborers		Employees & laborers		Patrons & employers		Cooperators	
	number	%	number	%	number	%	number	%	number	%
La Paz										
total	10,204	81.6	8,326	6.6	673	0.3	30	10.1	1,031	
men	9,694	82.3	7,978	6.4	620	0.3	30	9.5	921	
women	510	55.6	348	11.9	53	0.2	0	29.6	110	
Cuscatlan										
total	7,868	91.8	7,223	3.9	307	0.2	16	3.0	236	
men	7,561	92.0	6,956	3.9	295	0.2	16	3.0	227	
women	307	83.9	267	6.9	12	0.4	0	5.0	9	
San Vicente										
total	2,244	91.4	2,051	2.2	49	0.3	7	3.1	70	
men	2,163	91.9	1,988	2.1	45	0.3	7	2.9	63	
women	81	74.3	63	7.6	4	0.3	0	10.2	7	
San Salvador										
total	3,551	74.9	2,660	13.0	462	0.6	22	5.9	210	
men	3,285	75.8	2,490	12.4	407	0.7	22	5.6	184	
women	266	52.7	170	29.4	55	0.3	0	13.3	26	
Total										
total	23,867	84.9	20,260	6.2	1,491	0.3	75	6.5	1,547	
men	22,703	85.5	19,412	6.0	1,367	0.3	75	6.1	1,395	
women	1,164	72.8	848	10.7	124	0.0	0	13.1	152	

Note: These are calculated by each rate in 1992 Census.



Table C.2.24 Continued : 1996 (2/2)

	Agricultural EAP in Basin		Independent laborers		Employees & laborers		Patrons & employers		Cooperators	
	number	%	number	%	number	%	number	%	number	%
La Paz	total	10,929	81.6	8,918	6.6	721	0.3	32	10.1	1,104
	men	10,383	82.3	8,545	6.4	665	0.3	32	9.5	986
	women	546	55.6	373	11.9	56	0.2	0	29.6	118
Cuscatlan	total	8,427	91.8	7,736	3.9	329	0.2	17	3.0	253
	men	8,098	92.0	7,450	3.9	316	0.2	17	3.0	243
	women	329	83.9	286	6.9	13	0.4	0	5.0	10
San Vicente	total	2,403	91.4	2,196	2.2	53	0.3	7	3.1	74
	men	2,316	91.9	2,128	2	49	0.3	7	2.9	67
	women	87	74.3	68	7.6	4	0.3	0	10.2	7
San Salvador	total	3,803	74.9	2,848	13.0	494	0.6	24	5.9	224
	men	3,518	75.8	2,666	12.4	436	0.7	24	5.6	196
	women	285	52.7	182	29.4	58	0.3	0	13.3	28
Total	total	25,562	84.9	21,699	6.2	1,597	0.3	80	6.5	1,656
	men	24,315	85.5	20,790	6.0	1,465	0.3	80	6.1	1,492
	women	1,249	72.8	909	10.6	132	0.0	0	13.1	164

Note: These are calculated by each rate in 1992 Census.

Table C.2.25 The Rate of Jiboa River Basin Area by Agricultural Region

	Total area (km <sup>2</sup> )	Jiboa River Basin	
		area (km <sup>2</sup> )	(%)
<b>Region II</b>			
Chalatenango	2,016.6		
La Libertad	1,652.9		
San Salvador	886.2	64.1	7.233
Cuscatlan	756.2	123.9	16.385
Total	5,311.9	188.0	3.539
<b>Region III</b>			
La Paz	1,223.6	297.7	24.330
Cabanas	1,103.5		
San Vicente	1,184.0	49.4	4.172
Total	3,511.1	347.1	9.886
El Salvador	20,720 *	535.1 *	2.583

Note: \* = Land Area.

Table C.2.26 Estimation of Agricultural Production in Jiboa River Basin : 1994-1995

		National	Region II Total	Region III Total	Region II in Basin	Region III in Basin	Total in Basin	Rate in National
MAIZ	Mz	450,000	89,100	76,700	3,153	7,583	10,736	2.39
	QQ	10,449,000	2,525,400	2,037,100	89,374	201,388	290,762	2.78
	QQ/Mz	23.2	28.3	26.6	28.3	26.6	27.1	116.74
FRIJOL	Mz	106,100	43,900	16,900	1,554	1,671	3,224	3.04
	QQ	1,334,300	510,700	210,500	18,074	20,810	38,884	2.91
	QQ/Mz	12.6	11.6	12.5	11.6	12.5	12.1	95.71
MAICILLO	Mz	173,800	30,000	30,900	1,062	3,055	4,116	2.37
	QQ	3,956,900	759,000	676,700	26,861	66,899	93,760	2.37
	QQ/Mz	22.8	25.3	21.9	25.3	21.9	22.8	99.90
ARROZ	Mz	21,300	11,100	5,200	2,701	514	3,215	15.09
	QQ	1,405,200	803,700	306,800	195,540	30,330	225,870	16.07
	QQ/Mz	66.0	72.4	59.0	72.4	59.0	70.3	106.46
		National Total	LA PAZ Total	S. VICENTE Total	LA PAZ in Basin	S. VICENTE in Basin	Total in Basin	Rate in National
ALGODON	Mz	2,575	127	4.0	4.5	0.2	4.7	0.18
	QQ	60,526	4,605	120	163	5.0	168	0.28
	QQ/Mz	23.5	36.3	30.0	36.3	30.0	36.0	153.34

Source: Calculation based on "Anuario de Estadísticas Agropecuarias 1994-1995" by MAG y DGEA.

Table C.2.27 Production of Jiboa Sugar Milling Factory 1993-4

	Area (Mz)	Sugar Cane		Sugar		
		Production (s.t.)	Yield (s.t./Mz)	Production (QQ)	Yield (lb/s.t.)	Yield (%)
Jiboa	7,912	553,855	70.00	1,116,470	201.58	10.08
National	66,036	3,562,845	53.95	7,029,078	197.29	9.86
% in Total	12.0	15.5	-	15.9	-	-

Note: s. t. = 2,000 lb. QQ = 100 lb.

Source: MAG, "Informe de Coyuntura," Oct. 1994.

Table C.2.28 Number of Cattle Slaughtered in Jiboa River Basin in 1994

	Municipal total	Rate of Basin (%)	(heads) Number in Basin
SAN SALVADOR	65,662	7.23	4,749
CUSCATLAN	14,924	16.38	2,445
LA PAZ	3,191	24.33	776
SAN VICENTE	2,250	4.17	94
<b>NATIONAL</b>	<b>161,772</b>	<b>4.99</b>	<b>8,065</b>

Source: Calculation based on "Anyario de Estadísticas Agropecuarias 1994-1995."

Table C.2.29 Number of Pigs Slaughtered in Jiboa River Basin in 1994

	Municipal total	Rate of Basin (%)	(heads) Number in Basin
SAN SALVADOR	30,393	7.23	2,198
CUSCATLAN	3,793	16.38	621
LA PAZ	5,921	24.33	1,441
SAN VICENTE	6,773	4.17	283
<b>NATIONAL</b>	<b>134,488</b>	<b>3.38</b>	<b>4,543</b>

Source: Calculation based on "Anyario de Estadísticas Agropecuarias 1994-1995."

Table C.2.30 Number of Poultry for Eggs in Jiboa River Basin in 1994

	Municipal total	Rate of Basin (%)	(doves) Number in Basin
SAN SALVADOR	947,437	7.23	68,529
CUSCATLAN	264,568	16.38	43,348
LA PAZ	1,234,648	24.33	300,388
SAN VICENTE	-	4.17	-
<b>NATIONAL</b>	<b>4,517,898</b>	<b>9.13</b>	<b>412,266</b>

Source: Calculation based on "Anyario de Estadísticas Agropecuarias 1994-1995."

Table C.2.31 Number of Poultry for Meats in Jiboa River Basin in 1994

	Municipal total	Rate of Basin (%)	(doves) Number in Basin
SAN SALVADOR	480,524	7.23	34,757
CUSCATLAN	564,591	16.38	92,506
LA PAZ	21,830	24.33	5,311
SAN VICENTE	52,970	4.17	2,210
<b>NATIONAL</b>	<b>3,744,643</b>	<b>3.60</b>	<b>134,784</b>

Source: Calculation based on "Anyario de Estadísticas Agropecuarias 1994-1995."

Table C.3.1.1 Potential Benefit of Flood Control Plan

Project	Agriculture	Roads	Labor	Health	Total	Effect of project	Benefit of project	Shadow #
year	(colones)	(colones)	(colones)	(colones)	(colones)	(%)	(colones)	annual benefit (US\$1,000)
1997	4,725,000	4,905,000	31,689	80,006	9,741,694	0	0	0
1998	4,725,000	4,905,000	32,237	81,390	9,743,627	0	0	0
1999	4,725,000	4,905,000	32,795	82,798	9,745,593	0	0	0
2000	4,725,000	4,905,000	33,362	84,230	9,747,592	16	1,559,615	172
2001	4,725,000	4,905,000	33,939	85,687	9,749,627	32	3,119,881	344
2002	4,725,000	4,905,000	34,526	87,170	9,751,696	48	4,680,814	517
2003	4,725,000	4,905,000	35,124	88,678	9,753,801	64	6,242,433	689
2004	4,725,000	4,905,000	35,731	90,212	9,755,943	80	7,804,755	861
2005	4,725,000	4,905,000	36,350	91,772	9,758,122	100	9,758,122	1,077
2006	4,725,000	4,905,000	36,978	93,360	9,760,339	100	9,760,339	1,077
2007	4,725,000	4,905,000	37,618	94,975	9,762,593	100	9,762,593	1,077
2008	4,725,000	4,905,000	38,269	96,618	9,764,887	100	9,764,887	1,078
2009	4,725,000	4,905,000	38,931	98,290	9,767,221	100	9,767,221	1,078
2010	11,587,000	4,905,000	39,605	99,990	16,631,595	100	16,631,595	1,835
2011	4,725,000	4,905,000	40,290	101,720	9,772,010	100	9,772,010	1,078
2012	4,725,000	4,905,000	40,987	103,480	9,774,467	100	9,774,467	1,079
2013	4,725,000	4,905,000	41,695	105,270	9,776,966	100	9,776,966	1,079
2014	4,725,000	4,905,000	42,417	107,091	9,779,508	100	9,779,508	1,079
2015	4,725,000	4,905,000	43,151	108,944	9,782,095	100	9,782,095	1,079
2016	4,725,000	4,905,000	43,897	110,829	9,784,726	100	9,784,726	1,080
2017	4,725,000	4,905,000	44,657	112,746	9,787,403	100	9,787,403	1,080
2018	4,725,000	4,905,000	45,429	114,696	9,790,126	100	9,790,126	1,080
Total								16,278

\* Standard conversion factor = 0.96 US\$ 1 = 8.7 colones

Table C.3.1.2 Composition of Trade of El Salvador

	(US\$ millones)					
	1991	1992	1993	1993	1994	Average
Importation	1,513.00	1,854.50	2,144.70	2,574.00	3,352.40	2,287.70
Exportation	720	795.5	1,032.10	1,249.30	1,661.30	1,091.60
Tax for import	80.3	99.6	137.6	171	199	137.5
Tax for export	27.8	3.3	1	-	-	-
Subsidy for export	-	-	-	-	-	-

Source : BCR, Indicadores Economicos 1991-1995.

Table C.3.1.3 Potential Benefit of Plantation Plan

Project		Roundwood	Fuel wood	Total	Shadow *
year		(colones)	(colones)	benefit (colones)	annual benefit (US\$ 1,000)
1	1997	0	0	0	0
2	1998	0	0	0	0
3	1999	0	0	0	0
4	2000	0	0	0	0
5	2001	0	0	0	0
6	2002	0	0	0	0
7	2003	0	711,109	711,109	78
8	2004	0	1,422,218	1,422,218	157
9	2005	0	2,133,327	2,133,327	235
10	2006	0	2,844,436	2,844,436	314
11	2007	0	3,555,545	3,555,545	392
12	2008	158,200	4,266,654	4,424,854	488
13	2009	316,400	4,977,763	5,294,163	584
14	2010	474,600	5,688,872	6,163,472	680
15	2011	632,800	6,399,981	7,032,781	776
16	2012	791,000	7,111,090	7,902,090	872
17	2013	949,200	7,822,199	8,771,399	968
18	2014	1,107,400	8,533,308	9,640,708	1,064
19	2015	1,265,600	9,244,417	10,510,017	1,160
20	2016	1,423,800	9,955,526	11,379,326	1,256
subtotal				81,785,445	9,025
21	2017	1,582,000	10,666,635	12,248,635	1,352
22	2018	1,740,200	10,666,635	12,406,835	1,369
23	2019	1,898,400	10,666,635	12,565,035	1,386
24	2020	2,056,600	10,666,635	12,723,235	1,404
25	2021	2,214,800	10,666,635	12,881,435	1,421
26	2022	2,373,000	10,666,635	13,039,635	1,439
Total				157,650,255	17,396

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colones

Table C.3.1.4 Potential Benefit of Soil Conservation Plan

Project		Benefit	Effect of	Benefit	Shadow *
year		(colones)	project	of	(US\$1,000)
			(%)	project	
	1997	26,842,050	0	0	0
1	1998	26,842,050	0	0	0
2	1999	26,842,050	60	16,105,230	1,777
3	2000	26,842,050	100	26,842,050	2,962
4	2001	26,842,050	100	26,842,050	2,962
5	2002	26,842,050	100	26,842,050	2,962
6	2003	26,842,050	100	26,842,050	2,962
7	2004	26,842,050	100	26,842,050	2,962
8	2005	26,842,050	100	26,842,050	2,962
9	2006	26,842,050	100	26,842,050	2,962
10	2007	26,842,050	100	26,842,050	2,962
11	2008	26,842,050	100	26,842,050	2,962
12	2009	26,842,050	100	26,842,050	2,962
13	2010	26,842,050	100	26,842,050	2,962
14	2011	26,842,050	100	26,842,050	2,962
15	2012	26,842,050	100	26,842,050	2,962
16	2013	26,842,050	100	26,842,050	2,962
17	2014	26,842,050	100	26,842,050	2,962
18	2015	26,842,050	100	26,842,050	2,962
19	2016	26,842,050	100	26,842,050	2,962
20	2017	26,842,050	100	26,842,050	2,962
					55,091

\* Standard conversion factor = 0.96 US\$ 1 = 8.7 colones

Table C.3.1.5 Benefit of Integrated Water Management Plan (1/3)

Project year	Agriculture				Drinking water				(colonos)			
	Agriculture	Rate of pollution	Probability of loss in aguculture	Share in benefit (10%)	Dringing water	Rate of pollution	Probability of loss in drinking	Share in benefit (10%)	Agriculture	Rate of pollution	Probability of loss in aguculture	Share in benefit (10%)
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	6,463,125	2.0	129,263	12,926	4,800,298	2.5	120,007	12,001	6,463,125	2.5	120,007	12,001
1999	6,463,125	4.0	258,525	25,853	4,883,343	5.0	244,167	24,417	6,463,125	5.0	244,167	24,417
2000	6,463,125	6.0	387,788	38,779	4,967,825	7.5	372,587	37,259	6,463,125	7.5	372,587	37,259
2001	6,463,125	8.0	517,050	51,705	5,053,768	10.0	505,377	50,538	6,463,125	10.0	505,377	50,538
2002	6,463,125	10.0	646,313	64,631	5,141,198	12.5	642,650	64,265	6,463,125	12.5	642,650	64,265
2003	6,463,125	12.0	775,575	77,558	5,230,141	15.0	784,521	78,452	6,463,125	15.0	784,521	78,452
2004	6,463,125	14.0	904,838	90,484	5,320,622	17.5	931,109	93,111	6,463,125	17.5	931,109	93,111
2005	6,463,125	16.0	1,034,100	103,410	5,412,669	20.0	1,082,534	108,253	6,463,125	20.0	1,082,534	108,253
2006	6,463,125	18.0	1,163,363	116,336	5,506,308	22.5	1,238,919	123,892	6,463,125	22.5	1,238,919	123,892
2007	6,463,125	20.0	1,292,625	129,263	5,601,567	25.0	1,400,392	140,039	6,463,125	25.0	1,400,392	140,039
2008	6,463,125	22.0	1,421,888	142,189	5,698,474	27.5	1,567,080	156,708	6,463,125	27.5	1,567,080	156,708
2009	6,463,125	24.0	1,551,150	155,115	5,797,058	30.0	1,739,117	173,912	6,463,125	30.0	1,739,117	173,912
2010	6,463,125	26.0	1,680,413	168,041	5,897,347	32.5	1,916,638	191,664	6,463,125	32.5	1,916,638	191,664
2011	6,463,125	28.0	1,809,675	180,968	5,999,371	35.0	2,099,780	209,978	6,463,125	35.0	2,099,780	209,978
2012	6,463,125	30.0	1,938,938	193,894	6,103,160	37.5	2,288,685	228,869	6,463,125	37.5	2,288,685	228,869
2013	6,463,125	32.0	2,068,200	206,820	6,208,745	40.0	2,483,498	248,350	6,463,125	40.0	2,483,498	248,350
2014	6,463,125	34.0	2,197,463	219,746	6,316,156	42.5	2,684,366	268,437	6,463,125	42.5	2,684,366	268,437
2015	6,463,125	36.0	2,326,725	232,673	6,425,426	45.0	2,891,442	289,144	6,463,125	45.0	2,891,442	289,144
2016	6,463,125	38.0	2,455,988	245,599	6,536,586	47.5	3,104,878	310,488	6,463,125	47.5	3,104,878	310,488
2017	6,463,125	40.0	2,585,250	258,525	6,649,669	50.0	3,324,834	332,483	6,463,125	50.0	3,324,834	332,483
Total												

\* Standard conversion factor = 0.96 US\$ 1 = 8.7 colonos

Table C.3.1.5 Continued (2/3)

Project year	Income of sightseeing	Rate of pollution	Probability of less in sightseeing	Share in benefit (10%)	Information of flood	Sub-total probability	Shadow * annual benefit (US\$1,000)
1997	0	0	0	0	0	0	0
1998	44,579,500	2.0	891,590	89,159	13,816	127,902	0
1999	44,579,500	4.0	1,783,180	178,318	14,055	242,642	27
2000	44,579,500	6.0	2,674,770	267,477	14,298	357,813	39
2001	44,579,500	8.0	3,566,360	356,636	14,545	473,424	52
2002	44,579,500	10.0	4,457,950	445,795	14,797	589,488	65
2003	44,579,500	12.0	5,349,540	534,954	15,053	706,017	78
2004	44,579,500	14.0	6,241,130	624,113	15,313	823,021	91
2005	44,579,500	16.0	7,132,720	713,272	15,578	940,514	104
2006	44,579,500	18.0	8,024,310	802,431	15,848	1,058,507	117
2007	44,579,500	20.0	8,915,900	891,590	16,122	1,177,014	130
2008	44,579,500	22.0	9,807,490	980,749	16,401	1,296,047	143
2009	44,579,500	24.0	10,699,080	1,069,908	16,685	1,415,619	156
2010	44,579,500	26.0	11,590,670	1,159,067	16,973	1,535,745	169
2011	44,579,500	28.0	12,482,260	1,248,226	17,267	1,656,438	183
2012	44,579,500	30.0	13,373,850	1,337,385	17,566	1,777,713	196
2013	44,579,500	32.0	14,265,440	1,426,544	17,870	1,899,583	210
2014	44,579,500	34.0	15,157,030	1,515,703	18,179	2,022,065	223
2015	44,579,500	36.0	16,048,620	1,604,862	18,493	2,145,172	237
2016	44,579,500	38.0	16,940,210	1,694,021	18,813	2,268,921	250
2017	44,579,500	40.0	17,831,800	1,783,180	19,139	2,393,327	264
Total							2,734



Table C.3.1.5 Continued (3/3)

Project year	Cost of drinking groundwater	Rate of pollution	Probability of loss	Share in benefit (10%)	Total benefit of groundwater irrigation	Rate of pollution	Probability of loss in groundwater	Share in benefit (10%)	Sub-total of groundwater	Benefit of * groundwater (US\$1,000)
1997	0	0	0	0	0	0	0	0	0	0
1998	35,011,123	0.66	231,073	0	73,173,450	0.5	365,867	0	0	0
1999	35,011,123	1.32	462,147	0	73,173,450	1.0	731,735	0	0	0
2000	35,616,816	1.98	705,213	70,521	73,173,450	1.5	1,097,602	70,521	141,043	16
2001	36,232,987	2.64	956,551	95,655	73,173,450	2.0	1,463,469	95,655	191,310	21
2002	36,859,817	3.30	1,216,374	121,637	73,173,450	2.5	1,829,336	121,637	243,275	27
2003	37,497,492	3.96	1,484,901	148,490	73,173,450	3.0	2,195,204	148,490	296,980	33
2004	38,146,199	4.62	1,762,354	176,235	73,173,450	3.5	2,561,071	176,235	352,471	39
2005	38,806,128	5.28	2,048,964	204,896	73,173,450	4.0	2,926,938	204,896	409,793	45
2006	39,477,474	5.94	2,344,962	234,496	73,173,450	4.5	3,292,805	234,496	468,992	52
2007	40,160,434	6.60	2,650,589	265,059	73,173,450	5.0	3,658,673	265,059	530,118	58
2008	40,855,210	7.26	2,966,088	296,609	73,173,450	5.5	4,024,540	296,609	593,218	65
2009	41,562,005	7.92	3,291,711	329,171	73,173,450	6.0	4,390,407	329,171	658,342	73
2010	42,281,028	8.58	3,627,712	362,771	73,173,450	6.5	4,756,274	362,771	725,542	80
2011	43,012,489	9.24	3,974,354	397,435	73,173,450	7.0	5,122,142	397,435	794,871	88
2012	43,756,605	9.90	4,331,904	433,190	73,173,450	7.5	5,488,009	433,190	866,381	96
2013	44,513,595	10.56	4,700,636	470,064	73,173,450	8.0	5,853,876	470,064	940,127	104
2014	45,283,680	11.22	5,080,829	508,083	73,173,450	8.5	6,219,743	508,083	1,016,166	112
2015	46,067,088	11.88	5,472,770	547,277	73,173,450	9.0	6,585,611	547,277	1,094,554	121
2016	46,864,048	12.54	5,876,752	587,675	73,173,450	9.5	6,951,478	587,675	1,175,350	130
2017	47,674,796	13.20	6,293,073	629,307	73,173,450	10.0	7,317,345	629,307	1,258,615	139
Total										1,297

Table C.3.1.6 Potential Benefit of Swine Raising

Project year	Benefit (colones)	Shadow * annual benefit (US\$)
1	0	0
2	264,000	29,131
3	264,000	29,131
4	264,000	29,131
5	264,000	29,131
6	264,000	29,131
7	264,000	29,131
8	264,000	29,131
9	264,000	29,131
10	264,000	29,131
11	264,000	29,131
12	264,000	29,131
13	264,000	29,131
14	264,000	29,131
15	264,000	29,131
16	264,000	29,131
17	264,000	29,131
18	264,000	29,131
19	264,000	29,131
20	264,000	29,131
Total	5,016,000	553,490

\* Standard conversion factor = 0.96  
US\$ 1 = 8.7 colones

Table C.3.1.7 Potential Benefit of Poultry Raising

Project year	Benefit (colones)	Shadow * annual benefit (US\$)
1	0	0
2	96,000	10,593
3	96,000	10,593
4	96,000	10,593
5	96,000	10,593
6	96,000	10,593
7	96,000	10,593
8	96,000	10,593
9	96,000	10,593
10	96,000	10,593
11	96,000	10,593
12	96,000	10,593
13	96,000	10,593
14	96,000	10,593
15	96,000	10,593
16	96,000	10,593
17	96,000	10,593
18	96,000	10,593
19	96,000	10,593
20	96,000	10,593
Total	1,824,000	201,269

\* Standard conversion factor = 0.96  
US\$ 1 = 8.7 colones

Table C.3.1.8 Potential Benefit of Inland Fishery

Project year	Benefit (colones)	Shadow * annual benefit (US\$)
1997	0	0
1	0	0
2	475,200	52,436
3	475,200	52,436
4	475,200	52,436
5	475,200	52,436
6	475,200	52,436
7	475,200	52,436
8	475,200	52,436
9	475,200	52,436
10	475,200	52,436
11	475,200	52,436
12	475,200	52,436
13	475,200	52,436
14	475,200	52,436
15	475,200	52,436
16	475,200	52,436
17	475,200	52,436
18	475,200	52,436
19	475,200	52,436
20	475,200	52,436
2017	475,200	52,436
Total	9,028,800	996,281

\* Standard conversion factor = 0.96  
US\$ 1 = 8.7 colones

Table C.3.1.9 Potential Benefit of  
Animal Health

Project year	Benefit (colones)	Shadow * annual benefit (US\$ 1,000)
1	0	0
2	2,039,778	225
3	2,039,778	225
4	2,039,778	225
5	2,039,778	225
6	2,039,778	225
7	2,039,778	225
8	2,039,778	225
9	2,039,778	225
10	2,039,778	225
11	2,039,778	225
12	2,039,778	225
13	2,039,778	225
14	2,039,778	225
15	2,039,778	225
16	2,039,778	225
17	2,039,778	225
18	2,039,778	225
19	2,039,778	225
20	2,039,778	225
<b>Total</b>	<b>38,755,782</b>	<b>4,277</b>

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colones

Table C.3.1.10 Potential Benefit of  
Agriculture in Hillside

Project year	Benefit (colones)	Shadow * annual benefit (US\$ 1,000)
1	0	0
2	945,000	104
3	945,000	104
4	945,000	104
5	945,000	104
6	945,000	104
7	945,000	104
8	945,000	104
9	945,000	104
10	945,000	104
11	945,000	104
12	945,000	104
13	945,000	104
14	945,000	104
15	945,000	104
16	945,000	104
17	945,000	104
18	945,000	104
19	945,000	104
20	945,000	104
<b>Total</b>	<b>17,955,000</b>	<b>1,981</b>

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colones

Table C.3.1.11 Potential Benefit of Groundwater Irrigation and Drainage Plan

Project year	Increased production of rainy season	Production of dry season	Total	Shadow * annual benefit (US\$ 1,000)
1997	0	0	0	0
1998	0	0	0	0
1999	168,840	5,400,000	5,568,840	614
2000	1,568,805	50,175,000	51,743,805	5,710
2001	2,968,770	94,950,000	97,918,770	10,805
2002	2,968,770	94,950,000	97,918,770	10,805
2003	2,968,770	94,950,000	97,918,770	10,805
2004	2,968,770	94,950,000	97,918,770	10,805
2005	2,968,770	94,950,000	97,918,770	10,805
2006	2,968,770	94,950,000	97,918,770	10,805
2007	2,968,770	94,950,000	97,918,770	10,805
2008	2,968,770	94,950,000	97,918,770	10,805
2009	2,968,770	94,950,000	97,918,770	10,805
2010	2,968,770	94,950,000	97,918,770	10,805
2011	2,968,770	94,950,000	97,918,770	10,805
2012	2,968,770	94,950,000	97,918,770	10,805
2013	2,968,770	94,950,000	97,918,770	10,805
2014	2,968,770	94,950,000	97,918,770	10,805
2015	2,968,770	94,950,000	97,918,770	10,805
2016	2,968,770	94,950,000	97,918,770	10,805
2017	2,968,770	94,950,000	97,918,770	10,805
Total				190,006

\* Standard conversion factor = 0.96  
 US\$ 1 = 8.7 colones

Table C.3.1.12 Potencial Benefit of Community Houses for Activities of Farmer's Organization

Project year	(colonos)										Shadow * annual benefit (US\$ 1,000)
	Agricultural production total	share (0.5%)	Afforestation total	share (0.5%)	Soil conservation total	share (0.5%)	Animal Health total	share (0.5%)	Total benefit		
1997	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0
2003	32,846,695	164,233	711,109	3,556	26,842,050	134,210	2,039,778	10,199	312,198	34	
2004	32,846,695	164,233	1,422,218	7,111	26,842,050	134,210	2,039,778	10,199	315,754	35	
2005	32,846,695	164,233	2,133,327	10,667	26,842,050	134,210	2,039,778	10,199	319,309	35	
2006	32,846,695	164,233	2,844,436	14,222	26,842,050	134,210	2,039,778	10,199	322,865	36	
2007	32,846,695	164,233	3,555,545	17,778	26,842,050	134,210	2,039,778	10,199	326,420	36	
2008	32,846,695	164,233	4,424,854	22,124	26,842,050	134,210	2,039,778	10,199	330,767	36	
2009	32,846,695	164,233	5,294,163	26,471	26,842,050	134,210	2,039,778	10,199	335,113	37	
2010	32,846,695	164,233	6,163,472	30,817	26,842,050	134,210	2,039,778	10,199	339,460	37	
2011	32,846,695	164,233	7,032,781	35,164	26,842,050	134,210	2,039,778	10,199	343,807	38	
2012	32,846,695	164,233	7,902,090	39,510	26,842,050	134,210	2,039,778	10,199	348,153	38	
2013	32,846,695	164,233	8,771,399	43,857	26,842,050	134,210	2,039,778	10,199	352,500	39	
2014	32,846,695	164,233	9,640,708	48,204	26,842,050	134,210	2,039,778	10,199	356,846	39	
2015	32,846,695	164,233	10,510,017	52,550	26,842,050	134,210	2,039,778	10,199	361,193	40	
2016	32,846,695	164,233	11,379,326	56,897	26,842,050	134,210	2,039,778	10,199	365,539	40	
2017	32,846,695	164,233	95,825,625	479,128	26,842,050	134,210	2,039,778	10,199	787,771	87	
2018	32,846,695	164,233	95,825,625	479,128	26,842,050	134,210	2,039,778	10,199	787,771	87	
2019	32,846,695	164,233	95,825,625	479,128	26,842,050	134,210	2,039,778	10,199	787,771	87	
2020	32,846,695	164,233	95,825,625	479,128	26,842,050	134,210	2,039,778	10,199	787,771	87	
2021	32,846,695	164,233	95,825,625	479,128	26,842,050	134,210	2,039,778	10,199	787,771	87	
Total											957

\* Standard conversion factor = 0.96 US\$ 1 = 8.7 colonos

Table C.3.1.13 Housewives in Jiboa River Basin in 1996

	Female Non-EAP in total in 1992	Rate of River basin	Female Non-EAP in basin in 1992	Rate of housewife in non-EAP	Housewives in basin 1992	1996
<b>La Paz</b>						
1 El Rosario	2,872	45.1%	1,295			
2 Jerusalem	686	100.0%	686			
3 Mercedes La Ceiba	183	100.0%	183			
4 Paraiso de Osorio	846	100.0%	846			
5 San Antonio Masahuat	1,397	100.0%	1,397			
6 San Emigdio	889	100.0%	889			
7 San Francisco Chinameca	1,893	55.9%	1,058			
8 San Juan Nonualco	3,262	1.4%	46			
9 San Juan Tepezontes	982	100.0%	982			
10 San Luis	4,693	1.1%	52			
11 San Miguel Tepezontes	1,354	100.0%	1,354			
12 San Pedro Masahuat	6,819	83.5%	5,694			
13 San Pedro Nonualco	2,875	43.7%	1,256			
14 Santa Maria Ostuma	1,730	98.5%	1,704			
15 Santiago Nonualco	9,930	7.1%	705			
16 Tapahuaca	1,174	71.6%	841			
Total	41,585		18,988	51.7%	9,817	10,514
<b>CUSCATLAN</b>						
1 Cojutepeque	13,095	65.3%	8,551			
2 Candelaria	2,996	100.0%	2,996			
3 El Carmen	3,872	29.7%	1,150			
4 San Cristobal	2,271	100.0%	2,271			
5 San Pedro Perulapan	7,965	25.4%	2,023			
6 San Rafael Cedros	3,636	53.0%	1,927			
7 San Ramon	1,629	100.0%	1,629			
8 Santa Cruz Analquito	765	100.0%	765			
9 Santa Cruz Michapa	3,050	32.2%	982			
Total	39,279		22,294	53.7%	11,972	12,822
<b>SAN VICENTE</b>						
1 Guadalupe	1,840	82.5%	1,518			
2 Santo Domingo	2,101	57.7%	1,212			
3 Tepetitán	1,290	4.8%	62			
4 Verapaz	2,141	79.1%	1,694			
Total	7,372		4,486	51.5%	2,310	2,474
<b>SAN SALVADOR</b>						
1 Ilopango	23,571	65.0%	15,321			
2 San Marcos	15,369	28.0%	4,303			
3 San Martin	15,606	34.0%	5,306			
4 Santiago Texacuangos	4,563	64.2%	2,929			
5 Santo Tomas	5,667	38.5%	2,182			
6 Soyapango	67,854	15.4%	10,450			
Total	132,630		40,491	39.4%	15,954	17,087
<b>Grand total</b>	<b>220,866</b>		<b>86,259</b>		<b>40,052</b>	<b>42,897</b>

Table C.3.1.14 Potencial Benefit of Community Houses for Activities of Women's Organization

Project year	(colonos)						Shadow * annual benefit (US\$ 1,000)
	Improved stove total	Improved stove share (0.5%)	Cottage industry total	Cottage industry share (0.5%)	Total benefit	Total benefit	
1997	8,097,992	0	1,134,696	0	0	0	0
1998	8,097,992	0	1,154,327	0	0	0	0
1999	8,238,087	0	1,174,297	0	0	0	0
2000	8,380,606	0	1,194,612	0	0	0	0
2001	8,525,590	0	1,215,279	0	0	0	0
2002	8,673,083	0	1,236,303	0	0	0	0
2003	8,823,127	44,116	1,257,691	44,116	6,288	50,404	6
2004	8,975,768	44,879	1,279,449	44,879	6,397	51,276	6
2005	9,131,048	45,655	1,301,584	45,655	6,508	52,163	6
2006	9,289,015	46,445	1,324,101	46,445	6,621	53,066	6
2007	9,449,715	47,249	1,347,008	47,249	6,735	53,984	6
2008	9,613,195	48,066	1,370,311	48,066	6,852	54,918	6
2009	9,779,504	48,898	1,394,017	48,898	6,970	55,868	6
2010	9,948,689	49,743	1,418,134	49,743	7,091	56,834	6
2011	10,120,802	50,604	1,442,668	50,604	7,213	57,817	6
2012	10,295,891	51,479	1,467,626	51,479	7,338	58,818	6
2013	10,474,010	52,370	1,493,016	52,370	7,465	59,835	7
2014	10,655,211	53,276	1,518,845	53,276	7,594	60,870	7
2015	10,839,546	54,198	1,545,121	54,198	7,726	61,923	7
2016	11,027,070	55,135	1,571,852	55,135	7,859	62,995	7
2017	11,217,838	56,089	1,599,045	56,089	7,995	64,084	7
2018	11,411,907	57,060	1,626,708	57,060	8,134	65,193	7
2019	11,609,333	58,047	1,654,850	58,047	8,274	66,321	7
2020	11,810,174	59,051	1,683,479	59,051	8,417	67,468	7
2021	12,014,490	60,072	1,712,603	60,072	8,563	68,635	8
Total							124

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colonos

Table C.3.1.15 Potential Benefit of  
Community Houses

Project year	Farmer's organization	Women's organization	(US\$ 1,000) total benefit (43%)
1 1997	0	0	0
2 1998	34	6	17
3 1999	35	6	17
4 2000	35	6	18
5 2001	36	6	18
6 2002	36	6	18
7 2003	36	6	18
8 2004	37	6	19
9 2005	37	6	19
10 2006	38	6	19
11 2007	38	6	19
12 2008	39	7	20
13 2009	39	7	20
14 2010	40	7	20
15 2011	40	7	20
16 2012	87	7	40
17 2013	87	7	40
18 2014	87	7	41
19 2015	87	7	41
20 2016	87	8	41
Total	957	124	465

Table C.3.1.16 Potential Benefit of  
Rural Water Supply Plan

Project year	Benefit of health (colones)	Benefit of drawing (colones)	Total benefit (colones)	Shadow * annual benefit (US\$ 1,000)
1 1997	0	0	0	0
2 1998	582,985	7,800,553	8,383,538	925
3 1999	598,070	7,935,503	8,528,573	941
4 2000	608,330	8,072,787	8,676,118	957
5 2001	618,768	8,212,446	8,826,214	974
6 2002	624,386	8,354,522	8,978,908	991
7 2003	635,188	8,499,055	9,134,243	1,008
8 2004	646,177	8,646,089	9,292,265	1,025
9 2005	657,356	8,795,666	9,453,022	1,043
10 2006	668,728	8,947,831	9,616,559	1,061
11 2007	680,297	9,102,628	9,782,925	1,079
12 2008	692,066	9,260,104	9,952,170	1,098
13 2009	704,039	9,420,304	10,124,343	1,117
14 2010	716,219	9,583,275	10,299,494	1,136
15 2011	728,609	9,749,066	10,477,675	1,156
16 2012	741,214	9,917,724	10,658,939	1,176
17 2013	754,037	10,089,301	10,843,338	1,197
18 2014	767,082	10,263,846	11,030,928	1,217
19 2015	780,353	10,441,411	11,221,763	1,238
20 2016	793,853	10,622,047	11,415,900	1,260
Total			11,415,900	20,601

\* Standard conversion factor = 0.96  
US\$ 1 = 8.7 colones



Table C.3.1.17 Potential Benefit of Rural Lavatories

Project year	(colones)			
	Benefit of health	Benefit of sightseeing total	share (0.5%)	Shadow * annual benefit (US\$ 1,000)
1	0	0	0	0
1997				
2	1,141,887	44,579,500	222,898	1,364,785
1998				
3	1,161,642	44,579,500	222,898	1,384,539
1999				
4	1,181,738	44,579,500	222,898	1,404,636
2000				
5	1,202,182	44,579,500	222,898	1,425,080
2001				
6	1,222,980	44,579,500	222,898	1,445,878
2002				
7	1,244,138	44,579,500	222,898	1,467,035
2003				
8	1,265,661	44,579,500	222,898	1,488,559
2004				
9	1,287,557	44,579,500	222,898	1,510,455
2005				
10	1,309,832	44,579,500	222,898	1,532,729
2006				
11	1,332,492	44,579,500	222,898	1,555,389
2007				
12	1,355,544	44,579,500	222,898	1,578,442
2008				
13	1,378,995	44,579,500	222,898	1,601,892
2009				
14	1,402,852	44,579,500	222,898	1,625,749
2010				
15	1,427,121	44,579,500	222,898	1,650,018
2011				
16	1,451,810	44,579,500	222,898	1,674,708
2012				
17	1,476,926	44,579,500	222,898	1,699,824
2013				
18	1,502,477	44,579,500	222,898	1,725,375
2014				
19	1,528,470	44,579,500	222,898	1,751,368
2015				
20	1,554,913	44,579,500	222,898	1,777,810
2016				
Total				3,273

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colones

Table C.3.1.18 Estimated Potencial Users in Improved Roads in 1996

	EAP in total in 1992	% of Basin	EAP in basin in 1992	EAP in 1996	% of EAP in industry	EAP in industry	% of EAP in commerce	EAP in commerce	EAP in non-EAP in 1992	non-EAP in 1996	% of non-EAP in 1996	Students	Total potencial users
San Salvador department	39,130		25,389	27,191		7,891		4,890	40,581	43,463	48.2	19,560	32,341
Ilopango	33,347	65.0	21,676	23,215	28.8	6,686	18.7	4,341	34,279	36,713			
Santiago Texacuangos	5,783	64.2	3,713	3,976	30.3	1,205	13.8	549	6,302	6,750			
La Paz department	12,870		11,024	11,807		1,060		941	18,519	19,834	38.9	7,204	9,205
San Franci. Chinameca	1,876	55.9	1,049	1,123	12.2	137	7.8	88	2,482	2,658			
San Miguel Tepezontes	1,523	100.0	1,523	1,631	11.4	186	12.7	207	1,723	1,845			
San Antonio Masahuat	1,012	100.0	1,012	1,084	8.2	89	6.1	66	1,808	1,936			
San Pedro Masahuat	6,016	83.5	5,023	5,380	8.4	452	9.0	484	9,147	9,797			
San Emigdio	734	100.0	734	786	9.5	75	3.0	24	1,111	1,190			
Santa Maria Ostuma	1,709	98.5	1,683	1,803	6.7	121	4.0	72	2,248	2,408			
Cuscatlan department	20,735		15,458	16,556		2,746		3,050	27,476	29,428	38.2	10,496	16,292
Canadellaria	2,705	100.0	2,705	2,897	12.1	351	10.4	301	4,009	4,294			
San Ramon	1,153	100.0	1,153	1,235	9.5	117	3.9	48	2,148	2,301			
Cojutepeque	15,208	65.3	9,931	10,636	19.8	2,106	24.3	2,585	18,387	19,693			
San Cristobal	1,669	100.0	1,669	1,788	9.6	172	6.5	116	2,932	3,140			
San Vicente department	4,385		3,186	3,412		205		244	8,454	9,054	37.8	3,196	3,645
Santo Domingo	1,534	57.7	885	948	8.7	82	12.5	118	2,968	3,179			
Verapaz	1,518	79.1	1,201	1,286	4.6	59	3.8	49	2,918	3,125			
Guadalupe	1,333	82.5	1,100	1,178	5.4	64	6.5	77	2,568	2,750			
<b>Total</b>	<b>77,120</b>		<b>55,057</b>	<b>58,966</b>		<b>11,902</b>		<b>9,125</b>	<b>95,030</b>	<b>101,780</b>		<b>40,456</b>	<b>61,483</b>

Table C.3.1.19 Benefit of Rural Road Improvement Plan

Project year	Commutation (EAP & Students) (colones)	Commerce in basin (colones)	Transportation in basin (colones)	Total (colones)	Benefit of improved roads (20%)(colones)	Effect of project (%)	Benefit of project (colones)	Shadow * annual benefit (US\$)
1997	135,788,695	239,365,544	77,489,280	452,643,519	90,528,704	0	0	0
1998	138,137,840	239,365,544	77,489,280	454,992,664	90,998,533	0	0	0
1999	140,527,624	239,365,544	77,489,280	457,382,448	91,476,490	0	0	0
2000	142,958,752	239,365,544	77,489,280	459,813,576	91,962,715	0	0	0
2001	145,431,939	239,365,544	77,489,280	462,286,763	92,457,353	0	0	0
2002	147,947,911	239,365,544	77,489,280	464,802,735	92,960,547	0	0	0
2003	150,507,410	239,365,544	77,489,280	467,362,234	93,472,447	0	0	0
2004	153,111,188	239,365,544	77,489,280	469,966,012	93,993,202	0	0	0
2005	155,760,012	239,365,544	77,489,280	472,614,836	94,522,967	0	0	0
2006	158,454,660	239,365,544	77,489,280	475,309,484	95,061,897	16	15,209,903	1,678
2007	161,195,926	239,365,544	77,489,280	478,050,750	95,610,150	33	31,551,349	3,482
2008	163,984,615	239,365,544	77,489,280	480,839,439	96,167,888	50	48,083,944	5,306
2009	166,821,549	239,365,544	77,489,280	483,676,373	96,735,275	66	63,845,281	7,045
2010	169,707,562	239,365,544	77,489,280	486,562,386	97,312,477	83	80,769,356	8,912
2011	172,643,503	239,365,544	77,489,280	489,498,327	97,899,665	100	97,899,665	10,803
2012	175,630,235	239,365,544	77,489,280	492,485,059	98,497,012	100	98,497,012	10,869
2013	178,668,638	239,365,544	77,489,280	495,523,462	99,104,692	100	99,104,692	10,936
2014	181,759,606	239,365,544	77,489,280	498,614,430	99,722,886	100	99,722,886	11,004
2015	184,904,047	239,365,544	77,489,280	501,758,871	100,351,774	100	100,351,774	11,073
2016	188,102,887	239,365,544	77,489,280	504,957,711	100,991,542	100	100,991,542	11,144
2017	191,357,067	239,365,544	77,489,280	508,211,891	101,642,378	100	101,642,378	11,216
2018	194,667,544	239,365,544	77,489,280	511,522,368	102,304,474	100	102,304,474	11,289
2019	198,035,293	239,365,544	77,489,280	514,890,117	102,978,023	100	102,978,023	11,363
2020	201,461,303	239,365,544	77,489,280	518,316,127	103,663,225	100	103,663,225	11,439
2021	204,946,584	239,365,544	77,489,280	521,801,408	104,360,282	100	104,360,282	11,516
2022	208,492,160	239,365,544	77,489,280	525,346,984	105,069,397	100	105,069,397	11,594
2023	212,099,074	239,365,544	77,489,280	528,953,898	105,790,780	100	105,790,780	11,673
2024	215,768,388	239,365,544	77,489,280	532,623,212	106,524,642	100	106,524,642	11,754
Total								184,095

Table C.3.1.20 Potential Benefit of Intensification Plan of  
Agricultural Technical Extension in master Plan (1/2)

Project year	Agricultural production total	Agricultural production share (10%)	Afforestation total	Afforestation share (10%)	Soil conservation total	Soil conservation share (10%)	Inland fishery total (x22)	Inland fishery share (5%)
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	32,846,695	3,284,670	0	0	16,105,230	1,610,523	10,454,400	522,720
2000	32,846,695	3,284,670	0	0	26,842,050	2,684,205	10,454,400	522,720
2001	32,846,695	3,284,670	0	0	26,842,050	2,684,205	10,454,400	522,720
2002	32,846,695	3,284,670	0	0	26,842,050	2,684,205	10,454,400	522,720
2003	32,846,695	3,284,670	711,109	71,111	26,842,050	2,684,205	10,454,400	522,720
2004	32,846,695	3,284,670	1,422,218	142,222	26,842,050	2,684,205	10,454,400	522,720
2005	32,846,695	3,284,670	2,133,327	213,333	26,842,050	2,684,205	10,454,400	522,720
2006	32,846,695	3,284,670	2,844,436	284,444	26,842,050	2,684,205	10,454,400	522,720
2007	32,846,695	3,284,670	3,555,545	355,555	26,842,050	2,684,205	10,454,400	522,720
2008	32,846,695	3,284,670	4,424,854	442,485	26,842,050	2,684,205	10,454,400	522,720
2009	32,846,695	3,284,670	5,294,163	529,416	26,842,050	2,684,205	10,454,400	522,720
2010	32,846,695	3,284,670	6,163,472	616,347	26,842,050	2,684,205	10,454,400	522,720
2011	32,846,695	3,284,670	7,032,781	703,278	26,842,050	2,684,205	10,454,400	522,720
2012	32,846,695	3,284,670	7,902,090	790,209	26,842,050	2,684,205	10,454,400	522,720
2013	32,846,695	3,284,670	8,771,399	877,140	26,842,050	2,684,205	10,454,400	522,720
2014	32,846,695	3,284,670	9,640,708	964,071	26,842,050	2,684,205	10,454,400	522,720
2015	32,846,695	3,284,670	10,510,017	1,051,002	26,842,050	2,684,205	10,454,400	522,720
2016	32,846,695	3,284,670	11,379,326	1,137,933	26,842,050	2,684,205	10,454,400	522,720
2017	32,846,695	3,284,670	11,379,326	1,137,933	26,842,050	2,684,205	10,454,400	522,720
Total								

Table C.3.1.20 Continued (2/2)

Project year	Livestock promotion					Irrigation & drainage total	Irrigation & drainage share (5%)	Benefit of project	Shadow * benefit (US\$ 1,000)
	animal health	swine (x22)	poultry (x22)	total	share (5%)				
1997	0	0	0	0	0	0	0	0	0
1	2,039,778	5,808,000	2,112,000	9,959,778	497,989	0	0	0	0
2	2,039,778	5,808,000	2,112,000	9,959,778	497,989	5,568,840	278,442	6,194,343	684
3	2,039,778	5,808,000	2,112,000	9,959,778	497,989	6,968,805	348,440	7,338,024	810
4	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	11,865,522	1,312
5	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	11,885,522	1,312
6	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	11,956,633	1,319
7	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,027,744	1,327
8	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,098,855	1,335
9	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,169,966	1,343
10	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,241,076	1,351
11	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,328,007	1,360
12	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,414,938	1,370
13	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,501,869	1,380
14	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,588,900	1,389
15	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,675,731	1,399
16	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,762,662	1,408
17	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,849,593	1,418
18	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	12,936,524	1,427
19	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	13,023,455	1,437
20	2,039,778	5,808,000	2,112,000	9,959,778	497,989	97,918,770	4,895,939	13,023,455	1,437
Total									24,817

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colones

Table C.3.1.21 Potential Benefit of Improvement of Distribution (1)

	Average of high price* (col./ql)	Average of low price* (col./ql)	Difference (col./ql)	Estimated Production in basin (ql)	Storage by this plan (5%)	Income of appropriate marketing (colones)
Maize	137.5	89.2	48.30	290,762	14,538	702,190
Frijoles	370.0	242.0	128.00	38,884	1,944	248,858
Maicillo	128.3	66.7	61.60	93,760	4,688	288,781
Rice	205.0	185.0	20.00	225,870	11,294	225,870
<b>Total</b>						<b>1,465,699</b>

\* = MAG, Anuario de Estadísticas Agropecuarias 1994-1995.

Table C.3.1.21 Continued (2/2)

Project year		Total benefit (colones)	Shadow * annual benefit (US\$ 1,000)
1	1997	0	0
2	1998	1,465,699	162
3	1999	1,465,699	162
4	2000	1,465,699	162
5	2001	1,465,699	162
6	2002	1,465,699	162
7	2003	1,465,699	162
8	2004	1,465,699	162
9	2005	1,465,699	162
10	2006	1,465,699	162
11	2007	1,465,699	162
12	2008	1,465,699	162
13	2009	1,465,699	162
14	2010	1,465,699	162
15	2011	1,465,699	162
16	2012	1,465,699	162
17	2013	1,465,699	162
18	2014	1,465,699	162
19	2015	1,465,699	162
20	2016	1,465,699	162
<b>Total</b>			<b>3,073</b>

\* Standard conversion factor = 0.96

US\$ 1 = 8.7 colones

Table C.3.1.22 Potential Benefit of Soil Conservation Model Project

Project year		Benefit (colones)	Effect of project (%)	Benefit of project	Shadow * (US\$1,000)
	1997	7,573,500	0	0	0
1	1998	7,573,500	0	0	0
2	1999	7,573,500	100	7,573,500	836
3	2000	7,573,500	100	7,573,500	836
4	2001	7,573,500	100	7,573,500	836
5	2002	7,573,500	100	7,573,500	836
6	2003	7,573,500	100	7,573,500	836
7	2004	7,573,500	100	7,573,500	836
8	2005	7,573,500	100	7,573,500	836
9	2006	7,573,500	100	7,573,500	836
10	2007	7,573,500	100	7,573,500	836
11	2008	7,573,500	100	7,573,500	836
12	2009	7,573,500	100	7,573,500	836
13	2010	7,573,500	100	7,573,500	836
14	2011	7,573,500	100	7,573,500	836
15	2012	7,573,500	100	7,573,500	836
16	2013	7,573,500	100	7,573,500	836
17	2014	7,573,500	100	7,573,500	836
18	2015	7,573,500	100	7,573,500	836
19	2016	7,573,500	100	7,573,500	836
20	2017	7,573,500	100	7,573,500	836
					15,878

\* Standard conversion factor = 0.96 US\$ 1 = 8.7 colones

Table C.3.1.23 Potential Benefit of Groundwater Irrigation Model Project

Project year	Benefit (colones)	Shadow * annual benefit (US\$ 1,000)
1997	0	0
1998	0	0
1999	5,568,840	614
2000	5,568,840	614
2001	5,568,840	614
2002	5,568,840	614
2003	5,568,840	614
2004	5,568,840	614
2005	5,568,840	614
2006	5,568,840	614
2007	5,568,840	614
2008	5,568,840	614
2009	5,568,840	614
2010	5,568,840	614
2011	5,568,840	614
2012	5,568,840	614
2013	5,568,840	614
2014	5,568,840	614
2015	5,568,840	614
2016	5,568,840	614
2017	5,568,840	614
Total	105,807,960	11,675

Table C.3.1.24 Benefit of Model Project of intensive Activity of Extension Office

Project year	Benefit of master plan (100%) (colones)	Benefit of model project (33.3%) (colones)	Shadow * benefit (US\$ 1,000)
1997			
1998	0	0	0
1999	6,194,343	2,062,716	228
2000	7,338,024	2,443,562	270
2001	11,885,522	3,957,879	437
2002	11,885,522	3,957,879	437
2003	11,956,633	3,981,559	439
2004	12,027,744	4,005,239	442
2005	12,098,855	4,028,919	445
2006	12,169,966	4,052,599	447
2007	12,241,076	4,076,278	450
2008	12,328,007	4,105,226	453
2009	12,414,938	4,134,174	456
2010	12,501,869	4,163,122	459
2011	12,588,800	4,192,070	463
2012	12,675,731	4,221,018	466
2013	12,762,662	4,249,966	469
2014	12,849,593	4,278,914	472
2015	12,936,524	4,307,862	475
2016	13,023,455	4,336,810	479
2017	13,023,455	4,336,810	479
Total			8,264



Table 3.2.1 Cost of Flood Control Plan in Master Plan

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
River Improvement	facility	240,945	19,655	260,600	231,307	250,962
	equipment	435	1,155	1,590	418	1,573
Flood Control	facility	883	221	1,104	848	1,069
	equipment	0	0	0	0	0
<b>Total</b>		<b>242,263</b>	<b>21,031</b>	<b>263,294</b>	<b>232,572</b>	<b>253,603</b>

Table 3.2.2 Cash Flow of Flood Control Plan in Master Plan

(US\$ 1,000)						
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value
				0.002	0	
1		0	39,591	-39,591	1.000	-39,591
2		172	42,802	-42,630	1.000	-42,630
3		344	42,802	-42,458	1.000	-42,458
4		517	42,802	-42,286	1.000	-42,286
5		689	42,802	-42,114	1.000	-42,114
6		861	42,802	-41,941	1.000	-41,941
7		1,077	77	1,000	1.000	1,000
8		1,077	77	1,000	1.000	1,000
9		1,077	77	1,000	1.000	1,000
10		1,078	77	1,001	1.000	1,001
11		1,078	77	1,001	1.000	1,001
12		1,835	77	1,758	1.000	1,758
13		1,078	77	1,001	1.000	1,001
14		1,079	77	1,002	1.000	1,002
15		1,079	77	1,002	1.000	1,002
16		1,079	77	1,002	1.000	1,002
17		1,079	77	1,002	1.000	1,002
18		1,080	77	1,003	1.000	1,003
19		1,080	77	1,003	1.000	1,003
20	256,854	1,080	77	257,857	1.000	257,857
<b>Total</b>		<b>16,278</b>	<b>254,681</b>	<b>0.5%</b>		<b>20,611</b>

Table C.3.2.3 Cost of Afforestation Plan

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Afforestation technology development model project	facility	1,979	495	2,474	1,900	2,395
	equipment	177	883	1,060	170	1,053
Afforestation extension model project	facility	0	0	0	0	0
	equipment	159	0	159	153	153
<b>Total</b>		<b>2,315</b>	<b>1,378</b>	<b>3,693</b>	<b>2,222</b>	<b>3,600</b>

\* Existing land is used to this plan. If it is bought, plan needs US\$ 1,000.

Table C.3.2.4 Cash Flow of Afforestation Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
					6		7	
1		0	3,600	-3,600	0.943	-3,396	0.935	-3,364
2		0	23	-23	0.890	-20	0.873	-20
3		0	23	-23	0.840	-19	0.816	-19
4		0	23	-23	0.792	-18	0.763	-18
5		0	23	-23	0.747	-17	0.713	-16
6		0	23	-23	0.705	-16	0.666	-15
7		78	23	55	0.665	37	0.623	35
8		157	23	134	0.627	84	0.582	78
9		235	23	212	0.592	126	0.544	116
10		314	23	291	0.558	162	0.508	148
11		392	23	369	0.527	195	0.475	175
12		488	23	465	0.497	231	0.444	207
13		584	23	561	0.469	263	0.415	233
14		680	23	657	0.442	291	0.388	255
15		776	23	753	0.417	314	0.362	273
16		872	23	849	0.394	334	0.339	288
17		968	23	945	0.371	351	0.317	299
18		1,064	23	1,041	0.350	365	0.296	308
19		1,160	23	1,137	0.331	376	0.277	314
20	2,396	1,256	23	3,629	0.312	1,131	0.258	938
<b>Total</b>		<b>9,025</b>		<b>7.4%</b>		<b>772</b>		<b>213</b>

Table C.3.2.5 Cost of Soil Conservation Plan in Master Plan

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Soil conservation technology development plan	facility	141	36	177	135	171
	equipment	50	38	88	48	86
	sub-total	191	74	265	183	257
Soil conservation technology extension plan	facility	107	27	134	103	130
	equipment	78	0	0	75	75
Erosion control works plan	facility	240	60	300	230	290
	equipment	0	0	0	0	0
<b>Total</b>		<b>807</b>	<b>235</b>	<b>964</b>	<b>775</b>	<b>1,010</b>

\* Existing land is used to this plan. If it is bought, plan needs US\$ 1,000.

Table C.3.2.6 Cash Flow of Soil Conservation Plan in Master Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
					13	14		
1		0	556	-556	0.885	-492	0.877	-488
2		0	351	-351	0.783	-275	0.769	-270
3		0	600	-600	0.693	-416	0.675	-405
4		0	1,452	-1,452	0.613	-891	0.592	-860
5		569	2,172	-1,603	0.543	-870	0.519	-832
6		1,139	2,892	-1,754	0.480	-842	0.456	-799
7		1,708	3,612	-1,904	0.425	-809	0.400	-761
8		2,277	4,332	-2,055	0.376	-773	0.351	-720
9		2,846	5,052	-2,206	0.333	-734	0.308	-678
10		3,416	5,772	-2,357	0.295	-694	0.270	-636
11		3,985	6,492	-2,507	0.261	-654	0.237	-593
12		4,554	7,212	-2,658	0.231	-613	0.208	-552
13		5,123	0	5,123	0.204	1,046	0.182	933
14		5,693	0	5,693	0.181	1,029	0.160	909
15		5,693	0	5,693	0.160	910	0.140	797
16		5,693	0	5,693	0.141	805	0.123	700
17		5,693	0	5,693	0.125	713	0.108	614
18		5,693	0	5,693	0.111	631	0.095	538
19		5,693	0	5,693	0.098	558	0.083	472
20	594	5,693	0	6,287	0.087	546	0.073	457
<b>Total</b>		<b>56,276</b>		<b>9.8%</b>		<b>-1,826</b>		<b>-2,174</b>

Table C.3.2.7 Cost of Metrological & Hydrologic Observation System Plan  
in Master Plan

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Metrological & Hydrologic Observation System Plan	facility	601	150	751	577	727
	equipment	56	2,214	2,270	54	2,268
	sub-total	657	2,364	3,021	631	2,995
Groundwater monitoring	facility	153	45	198	147	192
	equipment	32	0	32	31	31
<b>Total</b>		<b>185</b>	<b>45</b>	<b>230</b>	<b>178</b>	<b>223</b>

Table C.3.2.8 Cash Flow of Metrological & Hydrologic Observation System Plan  
in Master Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
					1			
					2			
1		0	3,594	-3,594	0.990	-3,558	0.980	-3,524
2		27	268	-241	0.980	-236	0.961	-232
3		55	0	55	0.971	53	0.942	52
4		73	0	73	0.961	70	0.924	68
5		92	0	92	0.951	87	0.906	83
6		111	0	111	0.942	104	0.888	98
7		130	0	130	0.933	121	0.871	113
8		149	0	149	0.923	138	0.853	127
9		169	0	169	0.914	154	0.837	141
10		188	0	188	0.905	171	0.820	155
11		208	0	208	0.896	187	0.804	168
12		229	0	229	0.887	203	0.788	180
13		250	0	250	0.879	219	0.773	193
14		270	0	270	0.870	235	0.758	205
15		292	0	292	0.861	251	0.743	217
16		313	0	313	0.853	267	0.728	228
17		335	0	335	0.844	283	0.714	239
18		357	0	357	0.836	299	0.700	250
19		380	0	380	0.828	315	0.686	261
20	920	403	0	1,323	0.820	1,084	0.673	890
<b>Total</b>		<b>4,032</b>		<b>1.8%</b>		<b>448</b>		<b>-87</b>

Table C.3.2.9 Cost of Swine Raising Plan  
in Master Plan

	(US\$1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	32	8	40	31	39
equipment	22	0	22	21	21
Total	54	8	62	52	60

Table C.3.2.10 Cash Flow of Swine Raising Plan  
in Master Plan

Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	(US\$)		
						Present value	Discount rate (%)	Present value
					10	11		
1		0	60	-60	0.909	-55	0.901	-54
2		9	2	7	0.826	6	0.812	6
3		9	2	7	0.751	5	0.731	5
4		9	2	7	0.683	5	0.659	5
5		9	2	7	0.621	4	0.593	4
6		9	2	7	0.564	4	0.535	4
7		9	2	7	0.513	4	0.482	3
8		9	2	7	0.467	3	0.434	3
9		9	2	7	0.424	3	0.391	3
10		9	2	7	0.386	3	0.352	2
11		9	2	7	0.350	2	0.317	2
12		9	2	7	0.319	2	0.286	2
13		9	2	7	0.290	2	0.258	2
14		9	2	7	0.263	2	0.232	2
15		9	2	7	0.239	2	0.209	1
16		9	2	7	0.218	2	0.188	1
17		9	2	7	0.198	1	0.170	1
18		9	2	7	0.180	1	0.153	1
19		9	2	7	0.164	1	0.138	1
20	6	9	2	13	0.149	2	0.124	2
Total		171		9.9%		0		-4

Table C.3.2.11 Cost of Poultry Raising Plan  
in Master Plan

	(US\$)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	28	7	35	27	34
equipment	27	8	35	26	34
<b>Total</b>	<b>55</b>	<b>15</b>	<b>70</b>	<b>53</b>	<b>68</b>

Table C.3.2.12 Cash Flow of Poultry Raising Plan  
in Master Plan

								(US\$)	
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value	
					6				
					7				
1		0	68	-68	0.943	-64	0.935	-64	
2		11	4	7	0.890	6	0.873	6	
3		11	4	7	0.840	6	0.816	6	
4		11	4	7	0.792	5	0.763	5	
5		11	4	7	0.747	5	0.713	5	
6		11	4	7	0.705	5	0.666	5	
7		11	4	7	0.665	4	0.623	4	
8		11	4	7	0.627	4	0.582	4	
9		11	4	7	0.592	4	0.544	4	
10		11	4	7	0.558	4	0.508	3	
11		11	4	7	0.527	4	0.475	3	
12		11	4	7	0.497	3	0.444	3	
13		11	4	7	0.469	3	0.415	3	
14		11	4	7	0.442	3	0.388	3	
15		11	4	7	0.417	3	0.362	2	
16		11	4	7	0.394	3	0.339	2	
17		11	4	7	0.371	3	0.317	2	
18		11	4	7	0.350	2	0.296	2	
19		11	4	7	0.331	2	0.277	2	
20	34	11	4	41	0.312	13	0.258	11	
<b>Total</b>		<b>201</b>		<b>8.8%</b>		<b>18</b>		<b>10</b>	

Table C.3.2.13 Cost of Inland Fishery Plan  
in Master Plan

	(US\$)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	81	21	102	78	99
equipment	4	0	4	4	4
Total	85	21	106	82	103

Table C.3.2.14 Cash Flow of Inland Fishery Plan  
in Master Plan

Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount	Present value	Discount	Present value
					rate (%) 11		rate (%) 12	
1		0	103	-103	0.901	-93	0.893	-92
2		15	4	11	0.812	9	0.797	9
3		15	4	11	0.731	8	0.712	8
4		15	4	11	0.659	7	0.636	7
5		15	4	11	0.593	7	0.567	6
6		15	4	11	0.535	6	0.507	6
7		15	4	11	0.482	5	0.452	5
8		15	4	11	0.434	5	0.404	4
9		15	4	11	0.391	4	0.361	4
10		15	4	11	0.352	4	0.322	4
11		15	4	11	0.317	3	0.287	3
12		15	4	11	0.286	3	0.257	3
13		15	4	11	0.258	3	0.229	3
14		15	4	11	0.232	3	0.205	2
15		15	4	11	0.209	2	0.183	2
16		15	4	11	0.188	2	0.163	2
17		15	4	11	0.170	2	0.146	2
18		15	4	11	0.153	2	0.130	1
19		15	4	11	0.138	2	0.116	1
20	99	15	4	110	0.124	14	0.104	11
Total		285		10.6%		-3		-9

Table C.3.2.15 Cost of Animal Health Plan  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	76	19	95	73	92
equipment	54	18	72	52	70
Total	130	37	167	125	162

Table C.3.2.16 Cash Flow of Animal Health Plan  
in Master Plan

Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)		Present value	Discount rate (%)	Present value
					19	20			
1		0	162	-162	0.840		-136	0.833	-135
2		23	136	-113	0.706		-80	0.694	-79
3		45	136	-91	0.593		-54	0.579	-53
4		68	136	-68	0.499		-34	0.482	-33
5		90	136	-46	0.419		-19	0.402	-18
6		113	136	-23	0.352		-8	0.335	-8
7		135	136	-1	0.296		-0	0.279	-0
8		158	136	22	0.249		5	0.233	5
9		180	136	44	0.209		9	0.194	9
10		203	136	67	0.176		12	0.162	11
11		225	136	89	0.148		13	0.135	12
12		225	136	89	0.124		11	0.112	10
13		225	136	89	0.104		9	0.093	8
14		225	136	89	0.088		8	0.078	7
15		225	136	89	0.074		7	0.065	6
16		225	136	89	0.062		6	0.054	5
17		225	136	89	0.052		5	0.045	4
18		225	136	89	0.044		4	0.038	3
19		225	136	89	0.037		3	0.031	3
20	22	225	136	111	0.031		3	0.026	3
Total		4,277		6.3%			-237		-241



Table C.3.2.17 Cost of Agriculture in Hillside  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	636	159	795	611	770
equipment	0	0	0	0	0
<b>Total</b>	<b>636</b>	<b>159</b>	<b>795</b>	<b>611</b>	<b>770</b>

Table C.3.2.18 Cash Flow of Agriculture in Hillside  
in Master Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%) 9	Present value	Discount rate (%) 10	Present value
1		0	770	-770	0.917	-706	0.909	-700
2		104	23	81	0.842	68	0.826	67
3		104	23	81	0.772	63	0.751	61
4		104	23	81	0.708	58	0.683	55
5		104	23	81	0.650	53	0.621	50
6		104	23	81	0.596	48	0.564	46
7		104	23	81	0.547	44	0.513	42
8		104	23	81	0.502	41	0.467	38
9		104	23	81	0.460	37	0.424	34
10		104	23	81	0.422	34	0.386	31
11		104	23	81	0.388	31	0.350	28
12		104	23	81	0.356	29	0.319	26
13		104	23	81	0.326	26	0.290	24
14		104	23	81	0.299	24	0.263	21
15		104	23	81	0.275	22	0.239	19
16		104	23	81	0.252	20	0.218	18
17		104	23	81	0.231	19	0.198	16
18		104	23	81	0.212	17	0.180	15
19		104	23	81	0.194	16	0.164	13
20	770	104	23	851	0.178	152	0.149	127
<b>Total</b>		<b>1,981</b>		<b>10.5%</b>		<b>98</b>		<b>32</b>

Table C.3.2.19 Cost of Groudwater Irrigation &amp; Drainage Plan in Master Plan

(US\$ 1,000)

		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Groundwater irrigation plan	facility	16,670	1,351	18,021	16,003	17,354
	equipment	0	0	0	0	0
Drainage improvement plan	facility	1,484	159	1,643	1,425	1,584
	equipment	0	0	0	0	0
Rural roads improvement plan	facility	1,095	274	1,369	1,051	1,325
	equipment	0	0	0	0	0
<b>Total</b>		<b>19,249</b>	<b>1,784</b>	<b>21,033</b>	<b>18,479</b>	<b>20,263</b>

Table C.3.2.20 Cash Flow of Groundwater Irrigation &amp; Drainage Plan in Master Plan

(US\$ 1,000)

Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount	Present value	Discount	Present value
					rate (%)		rate (%)	
					13		14	
1		0	1,048	-1,048	0.885	-927	0.877	-919
2		0	8,419	-8,419	0.783	-6,594	0.769	-6,478
3		0	11,696	-11,696	0.693	-8,106	0.675	-7,894
4		859	749	110	0.613	67	0.592	65
5		1,718	749	969	0.543	526	0.519	503
6		2,577	749	1,828	0.480	878	0.456	833
7		3,436	749	2,687	0.425	1,142	0.400	1,074
8		4,295	749	3,546	0.376	1,334	0.351	1,243
9		4,295	749	3,546	0.333	1,180	0.308	1,090
10		4,295	749	3,546	0.295	1,044	0.270	956
11		4,295	749	3,546	0.261	924	0.237	839
12		4,295	749	3,546	0.231	818	0.208	736
13		4,295	749	3,546	0.204	724	0.182	646
14		4,295	749	3,546	0.181	641	0.160	566
15		4,295	749	3,546	0.160	567	0.140	497
16		4,295	749	3,546	0.141	502	0.123	436
17		4,295	749	3,546	0.125	444	0.108	382
18		4,295	749	3,546	0.111	393	0.095	335
19		4,295	749	3,546	0.098	348	0.083	294
20	20,000	4,295	749	23,546	0.087	2,043	0.073	1,713
<b>Total</b>		<b>64,418</b>		<b>11.4%</b>		<b>-2,052</b>		<b>-3,084</b>

Table C.3.2.21 Cost of Community Houses  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	544	136	680	522	658
equipment	0	0	0	0	0
<b>Total</b>	<b>544</b>	<b>136</b>	<b>680</b>	<b>522</b>	<b>658</b>

Table C.3.2.22 Cash Flow of Community Houses  
in Master Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
					2		3	
1		0	658	-658	0.980	-645	0.971	-639
2		17	1	16	0.961	16	0.943	15
3		17	1	16	0.942	15	0.915	15
4		18	1	17	0.924	15	0.888	15
5		18	1	17	0.906	15	0.863	15
6		18	1	17	0.888	15	0.837	14
7		18	1	17	0.871	15	0.813	14
8		19	1	18	0.853	15	0.789	14
9		19	1	18	0.837	15	0.766	14
10		19	1	18	0.820	15	0.744	13
11		19	1	18	0.804	15	0.722	13
12		20	1	19	0.788	15	0.701	13
13		20	1	19	0.773	15	0.681	13
14		20	1	19	0.758	14	0.661	13
15		20	1	19	0.743	14	0.642	12
16		40	1	39	0.728	29	0.623	25
17		40	1	39	0.714	28	0.605	24
18		41	1	40	0.700	28	0.587	23
19		41	1	40	0.686	27	0.570	23
20	660	41	1	700	0.673	471	0.554	387
<b>Total</b>		<b>465</b>		<b>3.4%</b>		<b>147</b>		<b>36</b>

Table C.3.2.23 Cost of Rural Water Supply Plan  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	5,936	1,484	7,420	5,699	7,183
equipment	0	0	0	0	0
<b>Total</b>	<b>5,936</b>	<b>1,484</b>	<b>7,420</b>	<b>5,699</b>	<b>7,183</b>

\* Each family manages the facility.

Table C.3.2.24 Cash Flow of Rural Water Supply Plan  
in Master Plan

Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	(US\$ 1,000)			
					Discount rate (%) 11	Present value	Discount rate (%) 12	Present value
1		0	7,183	-7,183	0.901	-6,471	0.893	-6,413
2		925	359	566	0.812	459	0.797	451
3		941	359	582	0.731	426	0.712	414
4		957	359	598	0.659	394	0.636	380
5		974	359	615	0.593	365	0.567	349
6		991	359	632	0.535	338	0.507	320
7		1,008	359	649	0.482	312	0.452	293
8		1,025	359	666	0.434	289	0.404	269
9		1,043	359	684	0.391	267	0.361	247
10		1,061	359	702	0.352	247	0.322	226
11		1,079	359	720	0.317	229	0.287	207
12		1,098	359	739	0.286	211	0.257	190
13		1,117	359	758	0.258	195	0.229	174
14		1,136	359	777	0.232	180	0.205	159
15		1,156	359	797	0.209	167	0.183	146
16		1,176	359	817	0.188	154	0.163	133
17		1,197	359	837	0.170	142	0.146	122
18		1,217	359	858	0.153	131	0.130	112
19		1,238	359	879	0.138	121	0.116	102
20	7,183	1,260	359	8,084	0.124	1,003	0.104	838
<b>Total</b>		<b>20,601</b>		<b>9.4%</b>		<b>-841</b>		<b>-1,282</b>

Table C.3.2.25 Cost of Rural Lavatories Plan  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	424	106	530	407	513
equipment	0	0	0	0	0
<b>Total</b>	<b>424</b>	<b>106</b>	<b>530</b>	<b>407</b>	<b>513</b>

\* Each family manages the facility.

Table C.3.2.26 Cash Flow of Rural Lavatories Plan  
in Master Plan

									(US\$ 1,000)
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value	
					25			26	
1		0	513	-513	0.800	-410	0.794	-407	
2		45	5	40	0.640	26	0.630	25	
3		46	5	41	0.512	21	0.500	20	
4		47	5	41	0.410	17	0.397	16	
5		47	5	42	0.328	14	0.315	13	
6		48	5	43	0.262	11	0.250	11	
7		49	5	43	0.210	9	0.198	9	
8		49	5	44	0.168	7	0.157	7	
9		50	5	45	0.134	6	0.125	6	
10		51	5	46	0.107	5	0.099	5	
11		52	5	46	0.086	4	0.079	4	
12		52	5	47	0.069	3	0.062	3	
13		53	5	48	0.055	3	0.050	2	
14		54	5	49	0.044	2	0.039	2	
15		55	5	49	0.035	2	0.031	2	
16		56	5	50	0.028	1	0.025	1	
17		56	5	51	0.023	1	0.020	1	
18		57	5	52	0.018	1	0.016	1	
19		58	5	53	0.014	1	0.012	1	
20	51	59	5	105	0.012	1	0.010	1	
<b>Total</b>		<b>982</b>		<b>6.2%</b>		<b>-275</b>		<b>-278</b>	

Table C.3.2.27 Cost of Rural Roads Consolidation Plan  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	84,682	9,408	94,090	81,295	90,703
equipment	0	0	0	0	0
<b>Total</b>	<b>84,682</b>	<b>9,408</b>	<b>94,090</b>	<b>81,295</b>	<b>90,703</b>

Table C.3.2.28 Cash Flow of Rural Roads Consolidation Plan  
in Master Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%) 9	Present value	Discount rate (%) 10	Present value
1		0	7,000	-7,000	0.917	-6,422	0.909	-6,364
2		1,678	8,320	-6,642	0.842	-5,590	0.826	-5,489
3		3,482	8,320	-4,838	0.772	-3,736	0.751	-3,635
4		5,306	8,320	-3,014	0.708	-2,135	0.683	-2,059
5		7,045	8,320	-1,275	0.650	-829	0.621	-792
6		8,912	8,320	592	0.596	353	0.564	334
7		10,803	8,320	2,483	0.547	1,358	0.513	1,274
8		10,869	8,320	2,549	0.502	1,279	0.467	1,189
9		10,936	8,320	2,616	0.460	1,204	0.424	1,109
10		11,004	8,320	2,684	0.422	1,134	0.386	1,035
11		11,073	8,320	2,753	0.388	1,067	0.350	965
12		11,144	7,374	3,770	0.356	1,340	0.319	1,201
13		11,216	3,764	7,452	0.326	2,431	0.290	2,159
14		11,289	3,764	7,525	0.299	2,252	0.263	1,982
15		11,363	3,764	7,599	0.275	2,086	0.239	1,819
16		11,439	3,764	7,675	0.252	1,933	0.218	1,670
17		11,516	3,764	7,752	0.231	1,791	0.198	1,534
18		11,594	3,764	7,830	0.212	1,660	0.180	1,408
19		11,673	3,764	7,910	0.194	1,538	0.164	1,293
20	907	11,754	3,764	8,897	0.178	1,588	0.149	1,323
<b>Total</b>		<b>184,095</b>	<b>127,683</b>	<b>11.0%</b>		<b>4,303</b>		<b>1,957</b>

Table C.3.2.29 Cost of Intensification Plan of  
Agricultural Technical Extension  
in Master Plan

(US\$ 1,000)

		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Intensification of extension office	facility	3,272	818	4,090	3,141	3,959
	equipment	1,305	1,495	2,800	1,253	2,748
Promotion & extension of project	facility	35	0	35	34	34
	equipment	273	0	273	262	262
<b>Total</b>		<b>4,885</b>	<b>2,313</b>	<b>7,198</b>	<b>4,690</b>	<b>7,003</b>

Table C.3.2.30 Cash Flow of Intensification Plan of  
Agricultural Technical Extension  
in Master Plan

(US\$ 1,000)

Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%) 9	Present value	Discount rate (%) 10	Present value
1		0	3,260	-3,260	0.917	-2,991	0.909	-2,964
2		684	4,814	-4,130	0.842	-3,477	0.826	-3,414
3		810	464	346	0.772	267	0.751	260
4		1,312	464	848	0.708	600	0.683	579
5		1,312	464	848	0.650	551	0.621	526
6		1,319	464	855	0.596	510	0.564	483
7		1,327	464	863	0.547	472	0.513	443
8		1,335	464	871	0.502	437	0.467	406
9		1,343	464	879	0.460	405	0.424	373
10		1,351	464	887	0.422	375	0.386	342
11		1,360	464	896	0.388	347	0.350	314
12		1,370	464	906	0.356	322	0.319	289
13		1,380	464	916	0.326	299	0.290	265
14		1,389	464	925	0.299	277	0.263	244
15		1,399	464	935	0.275	257	0.239	224
16		1,408	464	944	0.252	238	0.218	206
17		1,418	464	954	0.231	220	0.198	189
18		1,427	464	963	0.212	204	0.180	173
19		1,437	464	973	0.194	189	0.164	159
20	3,995	1,437	464	4,968	0.178	886	0.149	738
<b>Total</b>		<b>24,817</b>		<b>9.7%</b>		<b>389</b>		<b>-165</b>

Table C.3.2.31 Cost of Agricultural Products Distribution Improvement Plan  
in Master Plan

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	516	129	645	495	624
equipment	175	249	424	168	417
<b>Total</b>	<b>691</b>	<b>378</b>	<b>1,069</b>	<b>663</b>	<b>1,041</b>

Table C.3.2.32 Cash Flow of Agricultural Products Distribution Improvement Plan  
in Master Plan

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%) 11	Present value	Discount rate (%) 12	Present value
1		0	1,041	-1,041	0.901	-938	0.893	-929
2		162	36	126	0.812	102	0.797	100
3		162	36	126	0.731	92	0.712	89
4		162	36	126	0.659	83	0.636	80
5		162	36	126	0.593	75	0.567	71
6		162	36	126	0.535	67	0.507	64
7		162	36	126	0.482	61	0.452	57
8		162	36	126	0.434	55	0.404	51
9		162	36	126	0.391	49	0.361	45
10		162	36	126	0.352	44	0.322	40
11		162	36	126	0.317	40	0.287	36
12		162	36	126	0.286	36	0.257	32
13		162	36	126	0.258	32	0.229	29
14		162	36	126	0.232	29	0.205	26
15		162	36	126	0.209	26	0.183	23
16		162	36	126	0.188	24	0.163	21
17		162	36	126	0.170	21	0.146	18
18		162	36	126	0.153	19	0.130	16
19		162	36	126	0.138	17	0.116	15
20	63	162	36	188	0.124	23	0.104	20
<b>Total</b>		<b>3,073</b>		<b>10.3%</b>		<b>-42</b>		<b>-96</b>



Table C.3.2.33 Cost of Soil Conservation Plan in Model Project

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Soil conservation technology	facility	141	36	177	135	171
development model project	equipment	50	38	88	48	86
Soil conservation technology	facility	107	27	134	103	130
extension model project	equipment	78	0	78	75	75
<b>Total</b>		<b>376</b>	<b>101</b>	<b>477</b>	<b>361</b>	<b>462</b>

\* Existing land is used to this plan. If it is bought, plan needs US\$ 1,000.

Table C.3.2.34 Cash Flow of Soil Conservation Plan in Model Project

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
				0.1	148		149	
1		0	462	-462	0.403	-186	0.402	-186
2		836	1,150	-314	0.163	-51	0.161	-51
3		836	1,150	-314	0.066	-21	0.065	-20
4		836	1,150	-314	0.026	-8	0.026	-8
5		836	1,150	-314	0.011	-3	0.010	-3
6		836	1,150	-314	0.004	-1	0.004	-1
7		836	1,150	-314	0.002	-1	0.002	-1
8		836	1,150	-314	0.001	0	0.001	0
9		836	1,150	-314	0.000	0	0.000	0
10		836	58	779	0.000	0	0.000	0
11		836	58	779	0.000	0	0.000	0
12		836	58	779	0.000	0	0.000	0
13		836	58	779	0.000	0	0.000	0
14		836	58	779	0.000	0	0.000	0
15		836	58	779	0.000	0	0.000	0
16		836	58	779	0.000	0	0.000	0
17		836	58	779	0.000	0	0.000	0
18		836	58	779	0.000	0	0.000	0
19		836	58	779	0.000	0	0.000	0
20	46	836	58	824	0.000	0	0.000	0
<b>Total</b>		<b>15,878</b>		<b>11.1%</b>		<b>-272</b>		<b>-270</b>

Table C.3.2.35 Cost of Metrological & Hydrologic Observation System Model Project

	(US\$ 1,000)				
	Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
facility	657	164	821	631	795
equipment	61	2,421	2,482	59	2,479
<b>Total</b>	<b>718</b>	<b>2,585</b>	<b>3,303</b>	<b>690</b>	<b>3,274</b>

Table C.3.2.36 Cash Flow of Metrological & Hydrologic Observation System Model Project

(US\$ 1,000)						
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value
					0	
1		0	3,274	-3,274	1.000	-3,274
2		27	0	27	1.000	27
3		39	0	39	1.000	39
4		52	0	52	1.000	52
5		65	0	65	1.000	65
6		78	0	78	1.000	78
7		91	0	91	1.000	91
8		104	0	104	1.000	104
9		117	0	117	1.000	117
10		130	0	130	1.000	130
11		143	0	143	1.000	143
12		156	0	156	1.000	156
13		169	0	169	1.000	169
14		183	0	183	1.000	183
15		196	0	196	1.000	196
16		210	0	210	1.000	210
17		223	0	223	1.000	223
18		237	0	237	1.000	237
19		250	0	250	1.000	250
20	728	264	0	992	1.000	992
<b>Total</b>		<b>2,734</b>		<b>0.4%</b>		<b>188</b>

Table C.3.2.37 Cost of Groudwater Irrigation Model project

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Groundwater irrigation plan	facility	317	743	1,060	304	1,047
	equipment	0	0	0	0	0
<b>Total</b>		<b>317</b>	<b>743</b>	<b>1,060</b>	<b>304</b>	<b>1,047</b>

Table C.3.2.38 Cash Flow of Groundwater Irrigation Model Project

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
					12	13		
1		0	1,047	-1,047	0.893	-935	0.885	-927
2		49	44	5	0.797	4	0.783	4
3		98	44	54	0.712	38	0.693	37
4		146	44	102	0.636	65	0.613	63
5		195	44	151	0.567	86	0.543	82
6		244	44	200	0.507	101	0.480	96
7		244	44	200	0.452	90	0.425	85
8		244	44	200	0.404	81	0.376	75
9		244	44	200	0.361	72	0.333	67
10		244	44	200	0.322	64	0.295	59
11		244	44	200	0.287	57	0.261	52
12		244	44	200	0.257	51	0.231	46
13		244	44	200	0.229	46	0.204	41
14		244	44	200	0.205	41	0.181	36
15		244	44	200	0.183	37	0.160	32
16		244	44	200	0.163	33	0.141	28
17		244	44	200	0.146	29	0.125	25
18		244	44	200	0.130	26	0.111	22
19		244	44	200	0.116	23	0.098	20
20	10	614	44	580	0.104	60	0.087	50
<b>Total</b>		<b>11,675</b>		<b>12.9%</b>		<b>70</b>		<b>-6</b>

Table C.3.2.39 Cost of Model Project of  
Agricultural Technical Extension

		(US\$ 1,000)				
		Domestic payments	Foreign payments	Total cost	Shadow price of domestic payments	Total shadow cost
Intensification of agricultural extension office	facility equipment	1,117 230	279 450	1,396 680	1,072 221	1,351 671
Promotion & extension of project	facility equipment	35 273	0 0	9 867	34 262	34 262
<b>Total</b>		<b>1,655</b>	<b>729</b>	<b>2,952</b>	<b>1,589</b>	<b>2,317</b>

Table C.3.2.40 Cash Flow of Model Project of  
Agricultural Technical Extension

(US\$ 1,000)								
Year	Residual facilities	Annual benefit	Expenditure	Net cash flow	Discount rate (%)	Present value	Discount rate (%)	Present value
					10		11	
1		0	2,317	-2,317	0.909	-2,106	0.901	-2,087
2		228	168	60	0.826	49	0.812	48
3		270	168	102	0.751	76	0.731	74
4		437	168	269	0.683	184	0.659	177
5		437	168	269	0.621	167	0.593	159
6		439	168	271	0.564	153	0.535	145
7		442	168	274	0.513	141	0.482	132
8		445	168	277	0.467	129	0.434	120
9		447	168	279	0.424	118	0.391	109
10		450	168	282	0.386	109	0.352	99
11		453	168	285	0.350	100	0.317	90
12		456	168	288	0.319	92	0.286	82
13		459	168	291	0.290	84	0.258	75
14		463	168	295	0.263	78	0.232	68
15		466	168	298	0.239	71	0.209	62
16		469	168	301	0.218	65	0.188	57
17		472	168	304	0.198	60	0.170	52
18		475	168	307	0.180	55	0.153	47
19		479	168	311	0.164	51	0.138	43
20	1,357	479	168	1,668	0.149	248	0.124	207
<b>Total</b>		<b>8,264</b>		<b>9.6%</b>		<b>-76</b>		<b>-240</b>

**Table C.3.2.41 EIRR of Master Plans in a 20 Year Period**

<b>Master Plan</b>		<b>EIRR (%)</b>
1	Groundwater Development (Irrigation Use)	11.4
2	Rural Roads Improvement	11.0
3	Agricultural Products Distribution System Improvement *	10.7
4	Inland Fisheries *	10.6
5	Slope Farming *	10.5
6	Swine Production	10.0
7	Soil Conservation	9.8
8	Reinforcement of Agricultural Techniques Extension Office	9.7
9	Rural Water Supply	9.4
10	Poultry Farming *	8.8
11	Afforestation *	7.4
12	Animal Health Services Improvement *	6.3
13	Rural Sanitation (lavatory construction)	6.2
14	Multipurpose Building/Hall Construction	3.4
15	Meteorological & Hydrological Observation System Improvement	1.8
16	Sabo Dam	0.5

\* same as the model projects

**Table C.3.2.42 EIRR of Model Projects in a 20 Year Period**

<b>Model Projects</b>		<b>EIRR (%)</b>
1	Groundwater Development (Irrigation Use)	12.9
2	Soil Conservation	11.1
3	Agricultural Products Distribution System Improvement *	10.7
4	Inland Fisheries *	10.6
5	Slope Farming *	10.5
6	Swine Production *	10.0
7	Reinforcement of Agricultural Techniques Extension Office	9.6
8	Poultry Farming *	8.8
9	Afforestation	7.4
10	Animal Health Services Improvement *	6.3
11	Meteorological & Hydrological Observation System Improvement	0.4

\* same as master plans

Table C.3.2.43 Comparison of Net Cash Flow of Master Plan

Project year	(US\$ 1,000)													
	Afforestation plan	Soil conservation plan	Swine raising plan	Poultry raising plan	Inland fishery plan	Animal health plan	Hillside agriculture plan	Ground-water irrigation plan	Rural water supply plan	Rural Laboratories plan	Rural roads plan	Agri. technical extension plan	Agri. products distribution	
1	-3,600	-556	-60	-68	-103	-162	-770	-1,048	-7,183	-513	-7,000	-3,260	-1,041	
2	-23	-351	7	7	11	-113	81	-8,419	566	40	-6,642	-4,130	126	
3	-23	-600	7	7	11	-91	81	-11,696	582	41	-4,838	346	126	
4	-23	-1,452	7	7	11	-68	81	110	598	41	-3,014	848	126	
5	-23	-1,603	7	7	11	-46	81	969	615	42	-1,275	848	126	
6	-23	-1,754	7	7	11	-23	81	1,828	632	43	592	855	126	
7	55	-1,904	7	7	11	-1	81	2,687	649	43	2,483	863	126	
8	134	-2,055	7	7	11	22	81	3,546	666	44	2,549	871	126	
9	212	-2,206	7	7	11	44	81	3,546	684	45	2,616	879	126	
10	291	-2,357	7	7	11	67	81	3,546	702	46	2,684	887	126	
11	369	-2,507	7	7	11	89	81	3,546	720	46	2,753	896	126	
12	465	-2,658	7	7	11	89	81	3,546	739	47	3,770	906	126	
13	561	5,123	7	7	11	89	81	3,546	758	48	7,452	916	126	
14	657	5,693	7	7	11	89	81	3,546	777	49	7,525	925	126	
15	753	5,693	7	7	11	89	81	3,546	797	49	7,599	935	126	
16	849	5,693	7	7	11	89	81	3,546	817	50	7,675	944	126	
17	945	5,693	7	7	11	89	81	3,546	837	51	7,752	954	126	
18	1,041	5,693	7	7	11	89	81	3,546	858	52	7,830	963	126	
19	1,137	5,693	7	7	11	89	81	3,546	879	53	7,910	973	126	
20	3,629	6,287	13	41	110	111	851	23,546	8,084	105	8,897	4,968	188	
Total	7,384	25,563	79	94	205	541	1,542	50,522	13,777	423	57,319	12,386	1,411	

Table C.3.2.44 Comparison of Present Value of Master Plan

(US\$ 1,000)

Project year	Discount rate (6%)	Afforestation plan	Soil conservation plan	Swine raising plan	Poultry raising plan	Inland fishery plan	Animal health plan	Hillside agriculture plan	Ground-water irrigation plan	Rural water supply plan	Rural Lavatories plan	Rural roads plan	Agri. technical extension plan	Agri. products distribution
1	0.943	-3,396	-525	-57	-64	-97	-153	-726	-988	-6,776	-484	-6,604	-3,075	-982
2	0.890	-20	-312	6	6	10	-101	72	-7,493	504	36	-5,911	-3,676	112
3	0.840	-19	-504	6	6	9	-76	68	-9,820	489	34	-4,062	290	106
4	0.792	-18	-1,150	6	5	9	-54	64	87	474	33	-2,388	671	100
5	0.747	-17	-1,198	5	5	8	-34	61	724	459	31	-953	633	94
6	0.705	-16	-1,236	5	5	8	-16	57	1,288	445	30	418	603	89
7	0.665	37	-1,266	5	4	7	-1	54	1,787	431	29	1,651	574	84
8	0.627	84	-1,289	4	4	7	14	51	2,224	418	28	1,599	547	79
9	0.592	126	-1,306	4	4	7	26	48	2,099	405	27	1,548	520	74
10	0.558	162	-1,316	4	4	6	37	45	1,980	392	25	1,499	495	70
11	0.527	195	-1,321	4	4	6	47	43	1,868	379	24	1,450	472	66
12	0.497	231	-1,321	3	3	5	44	40	1,762	367	23	1,874	450	62
13	0.469	263	2,402	3	3	5	42	38	1,662	355	22	3,494	429	59
14	0.442	291	2,518	3	3	5	39	36	1,568	344	21	3,328	409	56
15	0.417	314	2,375	3	3	5	37	34	1,479	333	21	3,171	390	52
16	0.394	334	2,241	3	3	4	35	32	1,396	322	20	3,021	372	49
17	0.371	351	2,114	3	3	4	33	30	1,317	311	19	2,879	354	47
18	0.350	365	1,994	2	2	4	31	28	1,242	301	18	2,743	338	44
19	0.331	376	1,881	2	2	4	29	27	1,172	291	17	2,614	322	42
20	0.312	1,131	1,960	4	13	34	35	265	7,342	2,521	33	2,774	1,549	59
Total		772	4,742	19	18	49	14	368	12,695	2,763	9	14,147	2,667	361

Table C.3.2.45 Comparison of Net Cash Flow of Model Project

Project year	(colones)									
	Afforestation	Soil conservation	Swine raising	Poultry raising	Inland fishery	Animal health	Hillside agriculture	Ground-water irrigation	Agri. technical extension	Agri. products distribution improvement
1	-3,600	-462	-60	-68	-103	-162	-770	-1,047	-2,317	-1,254
2	-23	-314	7	7	11	-113	81	5	60	160
3	-23	-314	7	7	11	-91	81	54	102	160
4	-23	-314	7	7	11	-68	81	102	269	160
5	-23	-314	7	7	11	-46	81	151	269	160
6	-23	-314	7	7	11	-23	81	200	271	160
7	55	-314	7	7	11	-1	81	200	274	160
8	134	-314	7	7	11	22	81	200	277	160
9	212	-314	7	7	11	44	81	200	279	160
10	291	779	7	7	11	67	81	200	282	160
11	369	779	7	7	11	89	81	200	285	160
12	465	779	7	7	11	89	81	200	288	160
13	561	779	7	7	11	89	81	200	291	160
14	657	779	7	7	11	89	81	200	295	160
15	753	779	7	7	11	89	81	200	298	160
16	849	779	7	7	11	89	81	200	301	160
17	945	779	7	7	11	89	81	200	304	160
18	1,041	779	7	7	11	89	81	200	307	160
19	1,137	779	7	7	11	89	81	200	311	160
20	3,629	824	13	41	110	111	851	580	1,668	787
Total	7,384	5,635	79	94	205	541	1,542	2,645	6,429	2,408



Table C.3.2.46 Comparison of Present Values of Model Project

Project year	Discount rate (6%)	(colones)									
		Afforestation	Soil conservation	Swine raising	Poultry raising	Inland fishery	Animal health	Hillside agriculture	Ground-water irrigation	Agri. technical extension	Agri. products distribution
1	0.943	-3,396	-436	-57	-64	-97	-153	-726	-988	-2,186	-1,183
2	0.890	-20	-279	6	6	10	-101	72	4	53	142
3	0.840	-19	-264	6	6	9	-76	68	45	85	134
4	0.792	-18	-249	6	5	9	-54	64	81	213	127
5	0.747	-17	-235	5	5	8	-34	61	113	201	119
6	0.705	-16	-221	5	5	8	-16	57	141	191	113
7	0.665	37	-209	5	4	7	-1	54	133	182	106
8	0.627	84	-197	4	4	7	14	51	125	174	100
9	0.592	126	-186	4	4	7	26	48	118	165	95
10	0.558	162	435	4	4	6	37	45	112	157	89
11	0.527	195	410	4	4	6	47	43	105	150	84
12	0.497	231	387	3	3	5	44	40	99	143	79
13	0.469	263	365	3	3	5	42	38	94	137	75
14	0.442	291	344	3	3	5	39	36	88	130	71
15	0.417	314	325	3	3	5	37	34	83	124	67
16	0.394	334	306	3	3	4	35	32	79	118	63
17	0.371	351	289	3	3	4	33	30	74	113	59
18	0.350	365	273	2	2	4	31	28	70	108	56
19	0.331	376	257	2	2	4	29	27	66	103	53
20	0.312	1,131	257	4	13	34	35	265	181	520	245
Total		772	1,373	19	18	49	14	368	826	382	694

Table C.3.2.47 Total Income per Recipients of Master Plan at Value of 6 % during 20 Year

	Total present value (US\$ 1,000)	Recipients (persons)	Total income / recipient (US\$)	Content of recipients
1	368	64	5,750	members of "Cooperativa 30 de Octubre"
2	12,695	5,037	2,520	area multiplied by population density in 1996
3	49	65	754	members of 2 ADESCOs in Verapaz
4	19	32	594	members of "San Francisco Cooperative"
5	18	64	281	members of "Cooperativa 30 de Octubre"
6	2,667	25,562	104	agricultural eco. active population in Jiboa River basin
7	14,147	322,644	44	total population in Jiboa River basin
8	2,763	93,300	30	members of families that water facility will be constructed
9	4,742	322,644	15	total population in Jiboa River basin
10	361	25,562	14	agricultural eco. active population in Jiboa River basin
11	14	1,965	7	agricultural eco. active population in block D
12	772	205,644	4	population in block A1

\* = Same as model project.

Table C.3.2.48 Total Income per Recipients of Model Project at Present Value of 6 % during 20 Year

	Total present value (US\$ 1,000)	Recipients (persons)	Total income / recipient (US\$)	Content of recipients
1	826	49	16,857	farmers in irrigated area.
2	368	64	5,750	members of "Cooperativa 30 de Octubre"
3	49	65	754	members of 2 ADESCOs in Verapaz
4	19	32	594	members of "San Francisco Cooperative"
5	18	64	281	members of "Cooperativa 30 de Octubre"
6	882	8,520	104	1/3 of agricultural eco. active population in Jiboa River basin
7	694	25,562	27	agricultural eco. active population in Jiboa River basin
8	14	1,965	7	agricultural eco. active population in block D
9	1,373	205,644	7	population in block A1
10	772	205,644	4	population in block A1

\* = Same as master plan.