

## ANNEX-2 AGRO-ECONOMY

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App. 2.1-1 Selected Economic and Social Indicators

Indicator	Unit	Ref. Year	Sri Lanka	Bhutan	Nepal	India	Pakistan	Bangladesh	Maldives
Mid-year Population	Million	1991	17.25	1.57	19.60	849.64	115.52	116.44	0.22
		1992	17.40	1.61	20.58	870.00	119.11	119.29	0.23
Gross Domestic Product (GDP)	Million US\$	1991	9,000	2.40	2,826	268,006	42,952	22,800	143
at Current Prices		1992	9,703	N.A.	3,059	N.A.	47,933	23,190	171
Growth of Real GDP	%	1991	4.6	5.0	5.5	1.3	5.5	3.4	7.6
		1992	4.3	N.A.	3.1	N.A.	7.8	4.0	6.3
GNP Per Capita	US\$	1991	518	153	147	312	383	202	648
		1992	566	N.A.	152	N.A.	410	201	745
Sectoral Composition of GDP									
Agriculture & Mining	%	1991	25.2	45.2	56.8	33.4	26.2	37.6	25.4
Manufacturing	%	1991	17.7	7.0	7.2	20.6	17.6	9.8	5.8
Services	%	1991	57.1	47.8	36.0	46.0	56.2	52.6	68.8
Change of Consumer Price Level	%	1991	12.2	12.3	15.6	13.9	11.8	7.2	14.7
		1992	11.4	12.7	17.2	11.7	9.5	4.3	17.2
Consumption	% of GDP	1991	87.2	79.0	92.7	76.5	82.9	96.2	88.7
Gross Capital Formation	% of GDP	1991	22.9	33.4	20.9	24.0	18.7	11.1	64.2
Gross Domestic Savings	% of GDP	1991	12.8	21.0	7.3	21.9	17.1	3.8	N.A.
Exports	Million US\$	1991	1,987	72	264	17,643	6,529	1,691	54
		1992	2,461	N.A.	374	19,563	7,320	2,098	40
Imports	Million US\$	1991	3,061	102	758	20,181	8,462	3,353	151
		1992	3,503	N.A.	792	23,580	9,381	3,908	189
External Debt	Million US\$	1991	6,679	87	1,769	71,557	22,969	13,051	80
External Debt Service Ratio <sup>1)</sup>	%	2)	13.9	6.8	13.7	30.6	22.9	19.9	4.0
Literacy Rate	%	2)	89	38	26	48	35	35	N.A.
Life Expectancy	Years	2)	71	49	52	59	58	52	63
Infant Mortality (Per 1,000 Live Births)	No.	2)	19	133	102	90	101	111	58
Population Per Doctor	No.	2)	3,785	9,100	19,895	2,596	2,127	6,219	5,330
Labour Force	%	2)	49	46	40	38	28	47	27
Urban Population	%	2)	21	5	10	27	32	16	30

Notes: 1) Ratio of principal and interest payment on long-term external debt, interest payments on short-term debt, and IMF repurchases and changes to export of goods and services.

2) Latest available data with varying reference year from country to country.

Source: Sri Lanka Socio-Economic Data 1994, Central Bank of Sri Lanka.

App. 2.1-2 Self-sufficiency Rate for Rice

(Unit: 1,000MT)

Item	1990	1991	1992	1993
Paddy Production	2,538	2,389	2,339	2,570
- Rice Equivalent (0.68)	1,726	1,625	1,591	1,748
- Seed Paddy and Losses (0.12)	207	195	191	210
Domestic Rice Supply	1,519	1,430	1,400	1,538
Rice Imports	172	133	237	209
- Losses (0.025)	4	3	6	5
Imported Rice Supply	168	130	231	204
Total Rice Supply	1,687	1,560	1,631	1,742
Imports/Total Supply Ratio (%)	10.0	8.3	14.2	11.7
Self-sufficiency Rate (%)	90.0	91.7	85.8	88.3
Mid-year Population (1,000)	16,993	17,247	17,405	17,619
Per Capita Rice Availability (Kg/Year)	99.3	90.5	93.7	98.9

Sources: 1) Annual Report 1990-93, Central Bank of Sri Lanka.

2) Statistical Abstract 1994, Department of Census and Statistics.

App. 2.1-3 Macro-Economic Indicators

Indicator	1988	1989	1990	1991	1992	1993	1994
Growth of Real GDP							
Target	5.5	2.0	3.0	5.0	5.3	5.5	6.0
Performance	2.7	2.3	6.2	4.6	4.3	6.9	N.A.
Change of Consumer Price Level							
Target	7.5	12.0	10.0	13.6	9.4	7.5	6.5
Performance	14.0	11.6	21.5	12.2	11.4	11.7	8.4*
Fiscal Deficit (% of GDP)							
Target	11.0	12.5	10.4	10.1	8.8	8.0	7.1
Performance	15.7	11.2	9.9	11.6	7.3	8.1	10.0
Budgetary Expenditure (% of GDP)							
Target	-	33.8	31.8	29.5	28.2	27.6	27.2
Performance	34.5	32.6	31.1	32.1	27.5	27.9	N.A.
Current Deficit (% of GDP)							
Target	8.2	10.8	8.4	5.8	5.9	5.8	5.7
Performance	8.5	7.1	5.5	9.5	5.4	6.5	N.A.

Note: \* Provisional.

Sources: 1) OECF Research Quarterly, 1993/1 No.76.

2) Annual Reports 1990-93, Central Bank of Sri Lanka.

App. 2.1-4 Economic Indicators in Agricultural Sector

Indicator	Unit	1989	1990	1991	1992	1993	1994
1. GDP at Constant (1982) Factor Cost Price	Rs. Million	121,729	129,244	135,204	140,990	150,783	(100)
Of which, Agriculture, Forestry and Fisheries	Rs. Million	27,666	30,011	30,570	30,090	31,554	(20.9)
Of which, Paddy	Rs. Million	5,258	6,378	6,002	5,882	6,447	(4.3)
2. Total Exports	Rs. Million	56,175	76,624	82,225	107,855	138,175	(100)
Of which, Agricultural Exports <sup>2)</sup>	Rs. Million	22,049	28,886	26,537	26,503	31,618	(22.9)
3. Total Imports	Rs. Million	80,225	107,729	126,643	153,555	193,550	(100)
Of which, Agricultural Imports <sup>3)</sup>	Rs. Million	10,291	9,894	7,323	9,770	11,655	(6.0)
Of which, Rice	Rs. Million	3,397	1,758	1,589	2,852	2,386	(1.2)
Fertilizer	Rs. Million	1,755	2,958	2,430	2,366	3,108	(1.6)
4. Labour Force Population	% of Total Population		50.7	49.3	48.9	49.5	
Of which, Agriculture, Livestock and Fisheries	%		47.7	41.6	41.6	38.5	
5. National Budget	Rs. Million						
Budgetary Revenue	%	53,979	67,964	76,179	85,781	101,977	(100)
Of which, Taxes on International Trade <sup>4)</sup>	%	1,520	2,499	1,093	795	1,001	(1.0)
Budgetary Expenditure	%	82,164	99,814	119,528	116,973	141,916	(100)
Of which, Agriculture and Irrigation	%	6,210	6,197	6,983	7,288	8,063	(5.7)

Notes: 1) \* Provisional.

2) Comprises tea, rubber, coconut products and minor agricultural crops (vegetables, pepper, cinnamon, cloves and sesame seeds).

3) Comprises rice, flour, wheat and fertilizer.

4) Approved estimates by the Government.

5) Comprises tea, rubber and coconut.

6) Figures in parenthesis indicate comparison with total as 100.

Sources: 1) Annual Reports 1991-1993, Central Bank of Sri Lanka.

2) Sri Lanka Socio-economic Data 1994, Central Bank of Sri Lanka.



App. 2.2-1 Population and Population Density

Item	District	1990*	1991*	1992*	1993*
Mid Year Population (Thousands)	Kalutara	934 (5.5)	945 (5.5)	952 (5.5)	961 (5.5)
	Galle	932 (5.5)	946 (5.5)	958 (5.5)	971 (5.5)
	Matara	765 (4.5)	776 (4.5)	786 (4.5)	797 (4.5)
	Hambantota	510 (3.0)	517 (3.0)	524 (3.0)	531 (3.0)
	Sri Lanka	16,993 (100)	17,247 (100)	17,405 (100)	17,619 (100)
Population Density (No/Kms)	Kalutara	588 (224)	595 (223)	599 (223)	605 (222)
	Galle	570 (217)	578 (216)	586 (218)	594 (218)
	Matara	596 (227)	605 (227)	613 (228)	621 (227)
	Hambantota	198 (75)	200 (75)	203 (75)	206 (75)
	Sri Lanka	265 (100)	267 (100)	269 (100)	273 (100)

Notes: 1) \* Provisional.

2) Figures in parenthesis show comparison with Sri Lanka as 100.

Source: Statistical Abstract 1994, Department of Census and Statistics.

App. 2.2-2 Population and Households on Divisional Secretariat Division Basis (1995)

Scheme	D.S. Division <sup>1)</sup>	Population (No.)	Households (No.)	Average Household Size (No.)	Farm Households <sup>2)</sup> (%)	Population Density (No./Km <sup>2</sup> )
1. Liyangastota Scheme	Ambalantota Hambantota	64,820 44,746	14,112 10,702	4.6 4.2	62.9 89.2	261 94
2. Muruthawela Reservoir Scheme	Tangalle Angunakolapelessa Weerakeetiya	66,535 42,334 61,075	14,226 9,850 13,150	4.7 4.3 4.6	59.0 72.1 88.1	434 249 293
3. Badagiriya Scheme	Hambantota	44,746	10,702	4.2	89.2	94
4. Kachigala Ara Scheme	Ambalantota	64,820	14,112	4.6	62.9	261
5. Benthara Ganga Right Bank Scheme	Walallawita Matugama	50,318 72,265	12,350 18,850	4.1 3.8	67.0 67.0	234 600
6. Polwatte Ganga Scheme	Weligama	67,773	14,423	4.7	72.6	1,298
7. Thangalu Weliyaya Scheme	Tangalle	66,535	14,226	4.7	59.0	434

Notes: 1) In order to calculate the various values indicating regional characteristics and tendencies, statistics have been included from those DSDs under each scheme within which over 10% of that scheme's benefit area lies.

2) estimated by the Department of Agriculture and the Department of Agrarian Services in each district.

Sources: 1) Each D.S. office.

2) Department of Agriculture and Department of Agrarian Services in each district.

App. 2.2-3. Cropped Area and Production of Paddy

District	Type of Irrigation	1991												1992												1993											
		Cropped Area (Ha)			Harvested Area (Cha)			Production (MT)			Average Yield (Kg/Cha)			Cropped Area (Ha)			Harvested Area (Cha)			Production (MT)			Average Yield (Kg/Cha)			Cropped Area (Ha)			Harvested Area (Cha)			Production (MT)			Average Yield (Kg/Cha)		
		Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total	Maha	Yala	Total			
Kalutara	Major	419	380		416	252							412	191		396	176							220	145		212	131									
	Minor	2,817	2,615		2,814	2,456							2,735	2,198		2,724	2,167							2,233	1,910		2,202	1,860									
	Rainfed	14,726	13,391		14,688	12,489							14,678	11,250		14,642	10,978							14,448	11,563		14,287	11,250									
	Total	17,961	16,386		17,918	15,198							17,825	13,639		17,762	13,521							16,901	13,618		16,701	13,241									
Galle	Major																																				
	Minor	115	115		114	106							115	74		115	74							49	49		48	39									
	Rainfed	19,482	18,893		19,431	17,476							19,572	10,160		19,506	10,085							18,682	15,857		18,607	14,686									
	Total	19,597	19,007		19,545	17,583							19,687	10,234		19,621	10,159							18,731	15,886		18,655	14,725									
Matara	Major	4,011	2,881		3,998	2,792						4,137	3,242		4,126	3,224							4,322	3,969		4,279	3,459										
	Minor	3,946	3,501		3,914	3,445						4,155	3,112		4,151	3,112							4,114	3,748		4,073	3,584										
	Rainfed	10,301	8,811		10,255	8,402						11,016	7,963		10,970	7,953							10,671	8,858		10,564	8,579										
	Total	18,259	15,192		18,136	14,640						19,308	14,317		19,247	14,289							19,107	16,575		18,916	15,622										
Rambanota	Major	14,103	11,576		14,640	11,356						17,166	11,173		17,151	9,003							16,860	10,134		16,590	10,111										
	Minor	2,535	1,774		2,373	1,774						3,560	639		3,490	620							3,959	1,149		3,895	1,148										
	Rainfed	986	509		929	509						889	283		785	276							1,266	408		1,246	408										
	Total	17,625	13,859		17,942	13,639						21,577	12,095		21,427	9,899							22,085	11,691		21,731	11,667										
Sri Lanka	Major	191,212	143,720		188,509	142,091						219,260	130,502		217,548	122,937							247,069	162,398		245,038	160,044										
	Minor	107,311	54,163		105,612	53,504					120,817	49,825		111,009	47,463								130,475	45,118		127,579	43,231										
	Rainfed	123,980	92,585		122,866	89,311					146,792	74,657		135,573	72,833								168,145	81,048		165,402	77,531										
	Total	500,508	316,138		482,749	307,916						548,190	254,984		522,786	243,236							545,689	288,604		538,039	281,706										

Note: Average yield is calculated by dividing production by cropped area.  
Source: Statistical Abstracts 1993 and 1994, Department of Census and Statistics.

App. 2.2-4 Target Cropped Area and Production of Paddy (1995)

District	Type of Irrigation	Cropped Area (Ha)		Harvested Area (Ha)		Production (MT)		Yield (Kg/Ha)	
		Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala
Kalutara	Major	3,090	2,115	2,972	1,916	7,540	4,420	2,750	2,500
	Minor	3,250	3,225	3,204	3,144	7,680	6,960	2,600	2,400
	Rainfed	13,200	13,000	12,952	12,498	31,060	27,670	2,600	2,400
	Total	19,540	18,340	19,128	17,558	46,280	39,050	2,623	2,411
Western Province	Major	5,440	3,925	5,279	3,699	14,050	8,880	2,988	2,705
	Minor	8,910	7,635	8,753	7,482	22,970	17,880	2,994	2,714
	Rainfed	29,605	26,255	29,101	25,497	73,340	55,630	2,856	2,464
	Total	43,955	37,815	43,133	36,678	110,360	82,390	2,900	2,539
Galle	Major	-	-	-	-	-	-	-	-
	Minor	-	-	-	-	-	-	-	-
	Rainfed	21,090	20,395	20,951	19,846	48,370	36,340	2,950	2,340
	Total	21,090	20,395	20,951	19,846	48,370	36,340	2,950	2,340
Matara	Major	4,355	4,265	4,270	4,217	12,640	11,650	3,750	3,500
	Minor	4,620	4,475	4,548	4,407	12,570	10,440	3,500	3,000
	Rainfed	10,055	7,260	9,855	7,152	22,560	14,680	2,900	2,600
	Total	19,030	16,000	18,673	15,776	47,770	36,770	3,240	2,952
Hambantota	Major	19,315	14,140	19,039	13,606	81,510	51,710	4,900	4,350
	Minor	4,000	2,835	3,922	2,717	14,050	9,490	4,100	4,000
	Rainfed	1,000	965	972	862	2,970	2,410	3,500	3,200
	Total	24,315	17,940	23,933	17,185	98,530	63,610	4,712	4,237
Southern Province	Major	23,670	18,405	23,309	17,823	94,150	63,360	4,706	4,164
	Minor	8,620	7,310	8,470	7,124	26,620	19,930	3,764	3,405
	Rainfed	32,145	28,620	31,778	27,860	73,900	53,430	2,953	2,436
	Total	64,435	54,335	63,557	52,807	194,670	136,720	3,740	3,180
Sri Lanka	Major	302,740	210,500	289,338	204,286	1,144,130	757,260	4,438	4,148
	Minor	154,050	73,300	140,893	68,688	423,770	190,730	3,435	3,170
	Rainfed	206,850	90,735	184,834	85,771	456,920	197,470	2,776	2,656
	Total	663,640	374,535	615,065	358,745	2,024,820	1,145,460	3,740	3,613
Achievement 1992/93		545,689	288,604	538,060	281,706	1,692,000	878,170	3,516	3,481

Source: Agricultural Implementation Programme 1994/95, Ministry of Agriculture, Lands and Forestry.

App. 2.2-5 Crop-wise Cropped Area (1)

(Unit: ha)

Scheme	Divisional Secretariat Division	Year & Season	Subsidiary Food Crops										Vegetables										
			Paddy	Green Gram	Cowpea	Maize	Kurakkan	Gingelly	Green Chillies	Brinjil	Long Beans	Okura	Bitter Cound	Snake Cound									
1. Liyangastota Scheme	Ambalantota	1990/91 Maha	5,158	407	55	90	7	8	40	8	4	25	8	8	8								
		1991 Yala	5,186	-	-	3	-	-	10	10	2	30	7	10	10								
		1991/92 Maha	4,757	547	-	40	26	16	-	9	5	28	10	9	9								
		1992 Yala	4,846	-	-	-	-	-	11	13	3	34.0	8	11	8								
		1993/94 Maha	3,352	200	130	99	10	6	39	19	14	13.5	6	6	6								
		1994 Yala	3,687	-	-	-	-	-	-	2.5	2	6.5	2	-	-								
		1990/91 Maha	4,687	2,730	646	522	57	65	88	48	28	12	18	-	-								
		1991 Yala	2,041	18	68	2	-	15	59	15	28.5	2.5	-	-	-								
		1991/92 Maha	4,838	1,845	10	31	233	54	2	45	30	18	16	-	-								
		1992 Yala	1,049	21.7	7	0.5	-	-	18	17.5	30.5	5.5	-	-	-								
2. Munuhawela Reservoir Scheme	Tangalle	1993/94 Maha	3,409	2,965	775	231	112	52	188	32	63	17	8	4									
		1994 Yala	6,942	0.5	-	-	-	25	2	2	2.5	1.5	3	-	-								
		1990/91 Maha	235	232	32	138	-	-	38	18	7	9	12	2									
		1991 Yala	83	-	-	10	-	-	380	18	-	20	13	11									
		1991/92 Maha	955	345	-	34	13	12	-	20	8	10	10	5									
		1992 Yala	172	4.5	4	-	-	-	41	20	-	18	15	12									
		1993/94 Maha	1,900	402	225	90	55	75	375	25	-	20	65	45									
		1994 Yala	1,617	-	-	-	-	-	3	1	7	-	3	2.5									
		1990/91 Maha	1,979	726	180	167	370	88	116	60	58	21	3	12									
		1991 Yala	1,979	-	-	-	-	196	298	32	48	12	3	10									
3. Badagiriya Scheme	Hambantota	1991/92 Maha	2,034	840	-	10	97	24	-	69	24	6	15										
		1992 Yala	1,529	72	183	-	-	225	47	36	50	18	4	18									
		1993/94 Maha	1,692	730	312	170	180	36	340	18	44	6	18	5									
		1994 Yala	1,414	-	-	-	-	-	-	19	14	7	7	4									
		1990/91 Maha	2,295	317	6	59	50	5	11	12	-	12	1.5	2.1									
		1991 Yala	2,013	53	9	-	-	-	62	2	-	-	-	-									
		1991/92 Maha	2,912	180.5	-	4	20	2	-	13	-	17	2.5	3.5									
		1992 Yala	430	2.5	5	-	-	-	11	-	-	-	-	-									
		1993/94 Maha	3,350	452	50	60	45	-	77	5	9	14	5	2									
		1994 Yala	3,137	11	-	-	-	-	-	12.5	28.5	46.5	16.5	-									
3. Badagiriya Scheme	Hambantota	1990/91 Maha	4,687	2,730	646	522	57	65	88	48	28	12	18										
		1991 Yala	2,041	18	68	2	-	15	59	15	28.5	2.5	-	-									
		1991/92 Maha	4,838	1,845	10	31	233	54	2	45	30	18	16										
		1992 Yala	1,049	21.7	7	0.5	-	-	18	17.5	30.5	5.5	-	-									
		1993/94 Maha	3,409	2,965	775	231	112	52	188	32	63	17	8	4									
		1994 Yala	6,942	0.5	-	-	-	25	2	2	2.5	1.5	3	-	-								

App. 2.2-5 Crop-wise Cropped Area (2)

Scheme	Divisional Secretariat Division	Year & Season	Subsidiary Food Crops						Vegetables					
			Paddy	Green Gram	Cowpea	Maize	Kurakkan	Gingelly	Green Chillies	Brinjal	Long Beans	Okura	Bitter Courd	Snake Courd
4. Kachigala Ara Scheme	Ambalantota	1990/91 Maha	5,158	407	55	90	7	8	40	8	4	25	8	8
		1991 Yala	5,186	-	-	3	6	6	10	10	2	30	7	10
		1991/92 Maha	4,757	547	-	40	26	16	-	9	5	28	10	9
		1992 Yala	4,846	-	-	-	-	-	11	13	3	34	8	11
		1993/94 Maha	3,552	200	130	99	10	6	39	19	14	13.5	6	6
		1994 Yala	3,687	-	-	-	-	-	-	2.5	2	6.5	2	-
5. Bentara Ganga Right Bank Scheme	Walilawita	1990/91 Maha	N.A.	-	-	-	-	N.A.	-	N.A.	N.A.	N.A.	N.A.	
		1991 Yala	801	-	-	-	-	4.5	-	13	1	1	1	
		1991/92 Maha	248	-	-	-	-	6	-	19	9	4	2	
		1992 Yala	285	-	-	-	-	3	-	10	8	1	1	
		1993/94 Maha	1,140	-	-	-	-	2	-	7	6	1	2	
		1994 Yala	1,012	-	-	-	-	1	-	2	2	1	1	
6. Polwarte Ganga Scheme	Mangama	1990/91 Maha	N.A.	-	-	-	-	N.A.	-	N.A.	N.A.	N.A.	N.A.	
		1991 Yala	834	-	-	-	-	3	-	10	4	1	1	
		1991/92 Maha	1,010	-	-	-	-	1	-	3	5	1	1	
		1992 Yala	583	-	-	-	-	1	-	2	1	5	1	
		1993/94 Maha	919	-	-	-	-	16	-	5	5	1	1	
		1994 Yala	919	-	-	-	-	1	-	2	1	0.5	1	
7. Thangalu Welyaya Scheme	Tangalla	1990/91 Maha	2,241	-	-	-	-	5	9	10	8	24	15	
		1991 Yala	2,265	-	-	-	-	5	8	1	15	16	15	
		1991/92 Maha	2,281	-	-	-	-	3	7	9	10	14	15	
		1992 Yala	1,066	-	-	-	-	2	6	2	19	15	14	
		1993/94 Maha	2,359	-	-	-	-	2	15	4	14	10	9	
		1994 Yala	2,132	-	-	-	-	3	14	6	18	7	12	
7. Thangalu Welyaya Scheme	Tangalla	1990/91 Maha	235	232	32	138	-	-	38	18	7	9	12	
		1991 Yala	83	-	-	10	-	-	380	18	6	20	13	
		1991/92 Maha	955	345	-	34	13	12	-	20	8	10	10	
		1992 Yala	172	4.5	4	-	-	-	41	20	18	15	12	
		1993/94 Maha	1,900	402	225	90	55	75	375	25	-	20	65	
1994 Yala	1,617	-	-	-	-	-	3	1	7	-	3	2.5		

Source: Departments of Agriculture in Hambantota, Matara, Galle and Kalutara districts.

App. 2.2-6 Cropping Intensity of Paddy

District	Type of Irrigation	1990/91				1991/92				1992/93				1993/94*				1994/95*			
		Cultivated Area (Ha)	Cropped Area (Ha)		Cropping Intensity	Cultivated Area (Ha)	Cropped Area (Ha)		Cropping Intensity	Cultivated Area (Ha)	Cropped Area (Ha)		Cropping Intensity	Cultivated Area (Ha)	Cropped Area (Ha)		Cropping Intensity	Cultivated Area (Ha)	Cropped Area (Ha)		Cropping Intensity
			Maha	Yala			Maha	Yala			Maha	Yala			Maha	Yala			Maha	Yala	
Kalmunsa	Major	636	419	380	1.26	611	412	191	0.99	507	220	145	0.72	610	550	500	1.72	7,245	3,090	2,115	0.72
	Minor	2,981	2,817	2,615	1.82	2,888	2,755	2,198	1.71	2,344	2,233	1,910	1.77	2,890	2,840	2,650	1.90	3,385	3,250	3,225	1.91
	Rainfed	18,038	14,726	13,391	1.56	18,070	14,678	11,250	1.43	17,101	14,448	11,563	1.52	18,070	15,350	14,433	1.66	13,225	13,200	13,000	1.98
	Total	21,655	17,961	16,386	1.59	21,569	17,825	13,639	1.46	19,952	16,901	13,618	1.53	21,570	18,940	17,383	1.69	23,855	19,540	18,340	1.59
	Major	117	115	115	1.97	116	115	74	1.63	49	49	49	2.00	-	-	-	-	-	-	-	-
Mawara	Major	4,488	4,011	2,881	1.54	4,444	4,137	3,242	1.66	4,899	4,322	3,969	1.69	4,445	4,300	3,500	1.75	4,445	4,355	4,265	1.94
	Minor	4,760	3,946	3,501	1.56	4,761	4,155	3,112	1.53	4,361	4,114	3,748	1.80	4,760	4,700	4,515	1.94	4,760	4,620	4,475	1.91
	Rainfed	11,650	10,301	8,811	1.64	11,616	11,016	7,963	1.63	11,246	10,671	8,858	1.77	11,615	8,940	8,650	1.51	11,615	10,055	7,260	1.49
	Total	20,898	18,259	15,922	1.60	20,821	19,308	14,317	1.61	20,506	19,107	16,575	1.74	20,820	17,940	16,645	1.66	20,820	19,030	16,000	1.68
	Major	19,844	14,103	11,556	1.29	19,569	17,166	11,173	1.45	19,235	16,860	10,134	1.40	19,570	13,765	18,650	1.66	20,920	19,315	14,140	1.60
Sri Lanka	Major	5,337	2,535	1,774	0.81	5,277	3,563	639	0.80	5,116	3,959	1,149	1.00	5,275	3,040	3,883	1.31	5,910	4,000	2,835	1.16
	Minor	1,636	996	509	0.92	1,588	809	283	0.69	1,571	1,266	408	1.07	1,590	1,125	1,431	1.61	1,725	1,000	965	1.14
	Total	26,817	17,635	13,839	1.17	26,434	21,537	12,095	1.27	25,922	22,085	11,691	1.30	26,435	17,930	23,964	1.58	28,555	24,315	17,940	1.48
	Major	310,479	191,212	143,720	1.08	317,212	219,260	130,502	1.10	317,955	247,069	162,398	1.29	329,025	292,060	202,060	1.50	337,825	302,740	210,500	1.52
	Minor	179,190	107,111	54,163	0.90	178,286	120,817	49,825	0.96	177,757	130,475	45,118	0.99	180,970	154,660	70,040	1.24	185,410	154,050	73,300	1.23
Total	242,940	123,940	92,565	0.89	241,506	146,782	74,657	0.92	232,599	168,143	81,088	1.07	247,610	208,490	94,170	1.22	250,045	206,850	90,735	1.19	
Total	732,609	500,508	316,138	1.11	737,004	548,190	254,984	1.09	728,221	545,689	288,604	1.15	757,605	655,210	366,270	1.35	773,280	663,640	374,535	1.34	

Note: Target years.  
Sources: 1) Agricultural Implementation Programmes 1993-94 and 1994-95, Ministry of Agriculture, Lands and Forestry.  
2) Statistical Abstract 1994, Department of Census and Statistics.

App. 2.2-7 Harvest Rate and Degree of Crop Failure (I)

District	Type of Irrigation	Year	Cropped Area (Ha)	Harvested Area (Ha)	Crop Failure Area (Ha)	Harvest Rate (%)	Degree of Crop Failure (%)
Kalutara	Major	1990/91	799	668	131	83.6	16.4
		1991/92	603	572	31	94.9	5.1
		1992/93	365	343	22	94.0	6.0
		1993/94*	1,050	983	67	93.6	6.4
		1994/95*	5,205	4,888	317	93.9	6.1
	Minor	1990/91	5,432	5,270	162	97.0	3.0
		1991/92	4,933	4,891	42	99.1	0.9
		1992/93	4,143	4,062	81	98.0	2.0
		1993/94*	5,490	5,367	123	97.8	2.2
		1994/95*	6,475	6,348	127	98.0	2.0
	Rainfed	1990/91	28,117	27,177	940	96.7	3.3
		1991/92	25,928	25,620	308	98.8	1.2
		1992/93	26,011	25,537	474	98.2	1.8
		1993/94*	29,985	28,999	986	96.7	3.3
		1994/95*	26,200	25,450	750	97.1	2.9
	Total	1990/91	34,347	33,116	1,231	96.4	3.6
		1991/92	31,464	31,083	381	98.8	1.2
		1992/93	30,519	29,942	577	98.1	1.9
		1993/94*	36,525	35,349	1,176	96.8	3.2
		1994/95*	37,880	36,686	1,194	96.8	3.2
Galle	Major	1990/91	-	-	-	-	-
		1991/92	-	-	-	-	-
		1992/93	-	-	-	-	-
		1993/94*	-	-	-	-	-
		1994/95*	-	-	-	-	-
	Minor	1990/91	230	220	10	95.7	4.3
		1991/92	189	189	0	100.0	0
		1992/93	98	87	11	88.8	11.2
		1993/94*	-	-	-	-	-
		1994/95*	-	-	-	-	-
	Rainfed	1990/91	38,375	36,907	1,468	96.2	3.8
		1991/92	29,732	29,591	141	99.5	0.5
		1992/93	34,519	33,293	1,226	96.4	3.6
		1993/94*	41,300	40,414	886	97.9	2.1
		1994/95*	41,485	40,797	688	98.3	1.7
Total	1990/91	38,604	37,128	1,476	96.2	3.8	
	1991/92	29,921	29,780	141	99.5	0.5	
	1992/93	34,617	33,380	1,237	96.4	3.6	
	1993/94*	41,300	40,414	886	97.9	2.1	
	1994/95*	41,485	40,797	688	98.3	1.7	



App. 2.2-7 Harvest Rate and Degree of Crop Failure (2)

District	Type of Irrigation	Year	Cropped Area (Ha)	Harvested Area (Ha)	Crop Failure Area (Ha)	Harvest Rate (%)	Degree of Crop Failure (%)
Matara	Major	1990/91	6,892	6,760	132	98.1	1.9
		1991/92	7,379	7,350	29	99.6	0.4
		1992/93	8,291	7,738	553	93.3	6.7
		1993/94*	7,800	7,641	159	98.0	2.0
		1994/95*	8,620	8,487	133	98.5	1.5
	Minor	1990/91	7,447	7,359	88	98.8	1.2
		1991/92	7,267	7,263	4	99.9	0.1
		1992/93	7,862	7,657	205	97.4	2.6
		1993/94*	9,215	9,033	182	98.0	2.0
		1994/95*	9,095	8,955	140	98.5	1.5
	Rainfed	1990/91	19,112	15,657	3,455	81.9	18.1
		1991/92	18,979	18,923	56	99.7	0.3
		1992/93	19,529	19,143	386	98.0	2.0
		1993/94*	17,570	17,209	361	97.9	2.1
		1994/95*	17,315	17,007	308	98.2	1.8
	Total	1990/91	33,451	32,776	675	98.0	2.0
		1991/92	33,625	33,536	89	99.7	0.3
		1992/93	35,682	34,538	1,144	96.8	3.2
		1993/94*	34,585	33,883	702	98.0	2.0
		1994/95*	35,030	34,449	581	98.3	1.7
Hambantota	Major	1990/91	25,659	25,405	254	99.0	1.0
		1991/92	28,339	26,154	2,185	92.3	7.7
		1992/93	26,994	26,701	293	98.9	1.1
		1993/94*	32,415	32,160	255	99.2	0.8
		1994/95*	33,455	32,645	810	97.6	2.4
	Minor	1990/91	4,309	4,147	162	96.2	3.8
		1991/92	4,202	4,110	92	97.8	2.2
		1992/93	5,108	5,043	65	98.7	1.3
		1993/94*	6,923	6,791	132	98.1	1.9
		1994/95*	6,835	6,639	196	97.1	2.9
	Rainfed	1990/91	1,505	1,438	67	95.5	4.5
		1991/92	1,092	1,061	31	97.2	2.8
		1992/93	1,674	1,654	20	98.8	1.2
		1993/94*	2,556	2,442	114	95.5	4.5
		1994/95*	1,965	1,834	131	93.3	6.7
	Total	1990/91	31,474	30,990	484	98.5	1.5
		1991/92	33,632	31,326	2,306	93.1	6.9
		1992/93	33,776	33,398	378	98.9	1.1
		1993/94*	41,894	41,393	501	98.8	1.2
		1994/95*	42,255	41,118	1,137	97.3	2.7

App. 2.2-7 Harvest Rate and Degree of Crop Failure (3)

District	Type of Irrigation	Year	Cropped Area (Ha)	Harvested Area (Ha)	Crop Failure Area (Ha)	Harvest Rate (%)	Degree of Crop Failure (%)
Sri Lanka	Major	1990/91	334,932	330,600	4,332	98.7	1.3
		1991/92	349,762	340,485	9,277	97.3	2.7
		1992/93	409,467	406,002	3,465	99.2	0.8
		1993/94*	494,120	474,284	19,836	96.0	4.0
		1994/95*	513,240	493,624	19,616	96.2	3.8
	Minor	1990/91	161,274	159,116	2,158	98.7	1.3
		1991/92	170,642	158,472	12,170	92.9	7.1
		1992/93	175,593	170,810	4,783	97.3	2.7
		1993/94*	224,700	205,054	19,646	91.3	8.7
		1994/95*	227,350	209,581	17,769	92.2	7.8
	Rainfed	1990/91	216,525	212,177	4,348	98.0	2.0
		1991/92	221,439	208,406	13,033	94.1	5.9
		1992/93	249,233	242,933	6,300	97.5	2.5
		1993/94*	302,660	272,396	30,264	90.0	10.0
		1994/95*	297,585	270,605	26,980	90.9	9.1
	Total	1990/91	816,646	790,665	25,981	96.8	3.2
		1991/92	803,174	766,022	37,152	95.4	4.6
		1992/93	834,293	819,745	14,548	98.3	1.7
		1993/94*	1,021,480	951,734	69,746	93.2	6.8
1994/95*		1,038,175	973,810	64,365	93.8	6.2	

Note: \* Target years.

Source: Agricultural Implementation Programmes 1993-94 and 1994-95, Ministry of Agriculture, Lands and Forestry.

App. 2.2-8. Cropped Area and Production of Subsidiary Food Crops and Vegetables (1)

District	Year	Kurakkan						Green Gram						Cowpea					
		Cropped Area (Ha)		Production (MT)		Average Yield (kg/ha)		Cropped Area (Ha)		Production (MT)		Average Yield (kg/ha)		Cropped Area (Ha)		Production (MT)		Average Yield (kg/ha)	
		Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala
Kalutara	1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1995*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galle	1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1995*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Matura	1991	20 (0.2)	44 (4.5)	8 (0.1)	50 (8.3)	400	1,136	7 (0)	28 (0.3)	3 (0)	12 (0.2)	429	5 (0)	7 (0.1)	2 (0)	3 (0)	400	429	
	1992	8 (0.1)	20 (1.4)	3 (0.1)	8 (1.0)	375	400	19 (0.1)	24 (0.4)	8 (0)	10 (0.2)	417	2 (0)	3 (0.1)	1 (0)	2 (0)	500	667	
	1993	8 (0.1)	15 (0.8)	3 (0.1)	6 (0.5)	375	400	19 (0.1)	3 (0)	8 (0.1)	2 (0)	667	2 (0)	-	1 (0)	-	500	-	
	1995*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hambantota	1991	783 (8.8)	216 (22.0)	673 (11.3)	135 (22.5)	860	625	3,789 (15.7)	1,011 (11.5)	3,226 (16.4)	1,054 (15.4)	851	2,117 (11.6)	347 (4.7)	2,529 (15.6)	379 (6.1)	1,195	1,092	
	1992	800 (11.9)	189 (13.4)	725 (17.1)	157 (19.9)	873	831	3,295 (15.9)	1,340 (25.6)	3,916 (21.3)	1,522 (32.2)	1,136	1,535 (10.0)	410 (7.1)	1,820 (14.6)	448 (9.0)	1,186	1,093	
	1993	916 (10.9)	229 (12.1)	970 (16.4)	205 (18.2)	1,059	895	3,099 (17.2)	853 (11.8)	3,838 (24.7)	987 (17.5)	1,238	936 (5.6)	268 (4.9)	1,171 (8.0)	238 (5.1)	1,251	888	
	1995*	760 (10.1)	30 (2.8)	1,365 (22.5)	55 (5.6)	1,796	1,833	6,085 (20.9)	615 (4.5)	5,475 (22.2)	555 (4.2)	900	2,220 (11.4)	650 (12.2)	2,345 (14.5)	590 (9.6)	1,056	908	
	1999	8,857 (100)	963 (100)	5,964 (100)	601 (100)	673	611	24,210 (100)	8,823 (100)	19,729 (100)	6,855 (100)	815	18,323 (100)	7,403 (100)	16,208 (100)	6,199 (100)	885	837	
Sri Lanka	1992	6,975 (100)	1,414 (100)	4,247 (100)	790 (100)	609	559	20,759 (100)	5,689 (100)	18,408 (100)	4,731 (100)	887	15,423 (100)	5,755 (100)	12,496 (100)	4,957 (100)	810	861	
	1993	8,417 (100)	1,898 (100)	5,912 (100)	1,127 (100)	702	594	17,877 (100)	7,231 (100)	15,540 (100)	5,536 (100)	869	16,790 (100)	5,423 (100)	14,693 (100)	4,694 (100)	875	866	
	1995*	7,535 (100)	1,065 (100)	6,065 (100)	990 (100)	805	930	29,050 (100)	13,695 (100)	24,695 (100)	12,595 (100)	850	19,445 (100)	7,915 (100)	16,140 (100)	6,135 (100)	830	775	
	1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes: 1) Average yield is calculated by dividing production by cropped area.

2) Figures in parenthesis show comparison with Sri Lanka as 100.

3) \* Target year.

Sources: 1) Statistical Abstracts 1993 and 1994, Department of Census and Statistics.

2) Agricultural Implementation Programme 1994-95, Ministry of Agriculture, Lands and Forestry.

App. 2.2-8 Cropped Area and Production of Subsidiary Food Crops and Vegetables (2)

District	Year	Gingelly						Green Chillies						Maize						
		Cropped Area (Ha)		Production (MT)		Average Yield (kg/ha)		Cropped Area (Ha)		Production (MT)		Average Yield (kg/ha)		Cropped Area (Ha)		Production (MT)		Average Yield (kg/ha)		
		Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	
Kaluwa	1991	-	-	-	-	-	-	28 (0.2)	-	18 (0)	-	643	-	-	-	-	-	-	-	-
	1992	-	-	-	-	25 (0.1)	-	28 (0.2)	17 (0)	21 (0)	660	750	-	-	-	-	-	-	-	-
	1993	-	-	-	-	8 (0)	-	36 (0.3)	7 (0)	37 (0.1)	875	1,028	-	-	-	-	-	-	-	-
	1995*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galje	1991	-	-	-	-	8 (0.1)	-	8 (0.1)	6 (0)	1 (0)	750	-	-	-	-	-	-	-	-	-
	1992	-	-	-	-	8 (0)	-	14 (0.1)	5 (0)	2 (0)	625	143	-	-	-	-	-	-	-	-
	1993	-	-	-	-	31 (0.2)	-	34 (0.2)	46 (0)	51 (0.2)	1,484	1,500	-	-	-	-	-	-	-	-
	1995*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maara	1991	-	-	-	-	131 (1.0)	-	2 (0.1)	127 (0.3)	106 (0.2)	969	-	-	-	-	-	-	-	-	-
	1992	1 (0)	4 (0.1)	-	-	121 (0.7)	-	149 (1.2)	96 (0.2)	135 (0.4)	793	906	-	-	-	-	-	-	-	-
	1993	1 (0)	-	-	-	116 (0.6)	-	121 (0.9)	91 (0)	91 (0.3)	794	752	-	-	-	-	-	-	-	-
	1995*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hambantota	1991	549 (13.4)	257 (4.3)	397 (30.5)	174 (4.9)	1,561 (11.4)	80 (3.3)	80 (3.3)	4,194 (11.0)	182 (0.3)	2,687	2,275	638 (2.3)	120 (1.2)	713 (2.2)	112 (0.8)	1,118	933	-	-
	1992	531 (23.3)	199 (2.0)	397 (32.1)	115 (3.2)	1,452 (7.9)	145 (7.0)	145 (7.0)	3,436 (7.9)	1,660 (3.1)	2,366	1,964	716 (2.7)	155 (1.9)	677 (2.4)	144 (13.6)	946	929	-	-
	1993	363 (15.2)	231 (7.3)	250 (18.4)	143 (4.1)	1,175 (5.7)	946 (6.7)	946 (6.7)	1,976 (4.0)	1,918 (5.0)	1,692	2,027	538 (1.7)	138 (7.7)	542 (1.7)	130 (8.8)	1,007	942	-	-
	1995*	500 (12.0)	1,070 (5.5)	275 (9.7)	595 (4.3)	1,705 (5.7)	1,135 (6.0)	1,135 (6.0)	1,275** (5.7)	1,090** (4.1)	N.A.	N.A.	1,245 (2.3)	185 (15.5)	1,995 (3.4)	295 (19.9)	1,602	1,595	-	-
Sri Lanka	1991	3,471 (100)	6,040 (100)	1,938 (100)	3,546 (100)	13,654 (100)	2,430 (100)	2,430 (100)	38,201 (100)	61,308 (100)	2,798	2,523	27,498 (100)	1,068 (100)	32,458 (100)	1,037 (100)	1,180	971	-	-
	1992	2,101 (100)	9,951 (100)	1,237 (100)	3,549 (100)	18,398 (100)	12,066 (100)	12,066 (100)	43,407 (100)	32,301 (100)	2,366	2,677	26,419 (100)	1,302 (100)	27,743 (100)	1,060 (100)	1,050	814	-	-
	1993	2,391 (100)	6,970 (100)	1,360 (100)	3,519 (100)	20,522 (100)	14,076 (100)	14,076 (100)	55,942 (100)	34,757 (100)	2,726	2,753	30,802 (100)	1,792 (100)	31,073 (100)	1,478 (100)	1,099	825	-	-
	1995*	4,130 (100)	19,545 (100)	2,840 (100)	13,960 (100)	29,993 (100)	19,045 (100)	19,045 (100)	22,495** (100)	26,440** (100)	N.A.	N.A.	57,703 (100)	1,375 (100)	58,350 (100)	1,480 (100)	1,011	1,076	-	-

Notes: 1) Average yield is calculated by dividing production by cropped area.

2) Figures in parenthesis show comparison with Sri Lanka as 100.

3) \* Target year.

4) \*\* Dried chillies.

Sources: 1) Statistical Abstracts 1993 and 1994, Department of Census and Statistics.

2) Agricultural Implementation Programme 1994-95, Ministry of Agriculture, Lands and Forestry.

App. 2.2-8 Cropped Area and Production of Subsidiary Food Crops and Vegetables (3)

District	Year	Manioc						Red Onion					
		Cropped Area (Ha)		Production (MT)		Average Yield (Kg/Ha)		Cropped Area (Ha)		Production (MT)		Average Yield (Kg/Ha)	
		Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala	Maha	Yala
Kalutara	1991	981 (4.1)	769 (4.9)	12,346 (5.7)	6,590 (4.6)	12,585	8,570	-	-	-	-	-	-
	1992	652 (3.3)	669 (4.7)	6,909 (3.9)	5,974 (4.8)	10,597	8,930	-	-	-	-	-	-
	1993	245 (1.2)	647 (4.5)	2,758 (1.5)	6,315 (4.9)	11,257	9,760	-	-	-	-	-	-
	1995*	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-	-
Galle	1991	930 (3.9)	947 (6.0)	5,778 (2.7)	6,649 (4.6)	6,213	7,021	-	-	-	-	-	-
	1992	812 (4.1)	553 (3.9)	5,227 (2.9)	2,308 (1.9)	6,437	4,174	-	-	-	-	-	-
	1993	745 (3.7)	577 (4.0)	4,241 (2.3)	2,455 (1.9)	5,693	4,255	-	-	-	-	-	-
	1995*	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-	-
Matura	1991	766 (3.2)	803 (5.1)	5,769 (2.7)	6,955 (4.8)	7,531	8,661	2 (0.1)	-	12 (0)	18 (0.1)	6,000	-
	1992	656 (3.3)	807 (5.6)	5,285 (3.0)	6,719 (5.4)	8,056	8,326	-	3 (0.1)	3 (0)	24 (0.1)	-	-
	1993	607 (3.0)	525 (3.7)	4,882 (2.7)	4,493 (3.5)	8,043	8,558	-	-	-	-	-	-
	1995*	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-	-
Hambantota	1991	950 (4.0)	806 (5.1)	7,182 (3.3)	6,527 (4.5)	7,560	8,078	50 (1.4)	-	225 (0.9)	429 (2.7)	4,500	-
	1992	888 (4.5)	757 (5.3)	6,719 (3.8)	5,879 (4.8)	7,566	7,766	132 (3.1)	115 (3.3)	719 (2.5)	682 (2.6)	5,447	5,930
	1993	901 (4.5)	790 (5.5)	7,193 (4.0)	5,549 (4.3)	7,983	7,024	135 (4.2)	82 (2.3)	757 (3.3)	464 (1.9)	5,607	5,659
	1995*	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	85 (1.3)	80 (1.1)	1,280 (2.1)	1,190 (1.6)	N.A.	N.A.
Sri Lanka	1991	23,899 (100)	15,827 (100)	215,085 (100)	143,720 (100)	9,000	9,081	3,593 (100)	62 (100)	25,901 (100)	15,729 (100)	7,209	-
	1992	19,884 (100)	14,325 (100)	178,819 (100)	123,388 (100)	8,993	8,613	4,196 (100)	3,537 (100)	28,468 (100)	26,047 (100)	6,785	7,364
	1993	19,905 (100)	14,327 (100)	181,008 (100)	127,987 (100)	9,093	8,933	3,218 (100)	3,545 (100)	22,890 (100)	24,658 (100)	7,113	6,956
	1995*	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	6,465 (100)	7,125 (100)	61,685 (100)	75,360 (100)	9,541	10,577

Notes: 1) Average yield is calculated by dividing production by cropped area.

2) Figures in parenthesis show comparison with Sri Lanka as 100.

3) \* Target year.

Source: Statistical Abstracts 1993 and 1994, Department of Census and Statistics.

App. 2.2-9 Planting Area of Minor Export Crops

(Unit: Ha)

District	Year	Cocoa	Coffee	Cinnamon	Cardamon	Pepper	Clove	Nutmeg	Citronella	Total
Colombo/Kalutara	1992	41 (0.3)	115 (1.0)	870 (5.3)	-	305 (2.4)	113 (1.4)	6 (0.2)	-	1,450 (1.8)
	1993	41 (0.3)	115 (1.0)	870 (5.3)	-	314 (2.4)	113 (1.4)	6 (0.2)	-	1,459 (1.8)
Galle	1992	-	149 (1.2)	5,166 (31.2)	-	299 (2.4)	236 (2.9)	15 (0.6)	-	5,865 (7.4)
	1993	-	149 (1.2)	5,166 (31.2)	-	303 (2.3)	236 (2.9)	15 (0.6)	-	5,869 (7.3)
Matara	1992	-	477 (4.0)	6,779 (40.9)	6 (0.1)	278 (2.2)	328 (4.0)	28 (1.1)	617 (9.9)	8,513 (10.7)
	1993	-	477 (4.0)	6,779 (40.9)	6 (0.1)	280 (2.1)	328 (4.0)	28 (1.1)	617 (9.9)	8,515 (10.7)
Hambantota	1992	-	147 (1.2)	1,178 (7.1)	-	140 (1.1)	39 (0.5)	-	5,612 (90.1)	7,116 (9.0)
	1993	-	147 (1.2)	1,178 (7.1)	-	165 (1.3)	39 (0.5)	-	5,612 (90.1)	7,141 (8.9)
Sri Lanka	1992	15,694 (100)	11,972 (100)	16,555 (100)	5,459 (100)	12,606 (100)	8,238 (100)	2,488 (100)	6,232 (100)	79,244 (100)
	1993	15,741 (100)	12,032 (100)	16,555 (100)	5,463 (100)	13,136 (100)	8,238 (100)	2,488 (100)	6,232 (100)	79,885 (100)

Note: Figures in parenthesis show comparison with total as 100.  
Source: Administrative Reports 1992 and 1993, Department of Export Agriculture.

App. 2.2-10 Crop-wise Production (1)

(Unit: MT)

Scheme	Divisional Secretariat Division	Season	Paddy	Subsidiary Food Crops					Vegetables						
				Green Gram	Cowpea	Maize	Korakkai	Griggilly	Green Chillies	Brinjal	Long Beans	Okra	Bitter Guard	Sweet Guard	
1. Liyangatota Scheme	Ambalantota	1990/91 Maha	20,832	366.3	55	360	14	40	40	176	40	425	240	290	
		1991 Yala	20,351	-	-	12	-	-	-	10	220	20	510	210	350
		1991/92 Maha	19,602	492.0	0	160	52	80	-	-	198	50	476	300	315
		1992 Yala	19,970	-	-	-	-	-	-	11	246	30	578	240	385
		1993/94 Maha	13,854	1,800.0	130	396	20	30	30	418	140	230	180	210	
		1994 Yala	14,110	-	-	-	-	-	-	55	55	20	111	60	-
		1990/91 Maha	17,932	2,457.0	646	2,088	114	325	88	1,056	280	204	540	-	
		1991 Yala	7,551	16.2	68	8	-	75	59	330	285	43	-	18	
		1991/92 Maha	16,972	1,660.9	10	124	466	270	2	990	30	306	480	-	
		1992 Yala	4,091	19.5	7	2	-	-	18	385	305	94	-	18	
2. Murohawela Reservoir Scheme	Tengalle	1993/94 Maha	12,613	2,668.5	775	924	224	260	188	704	630	289	240	140	
		1994 Yala	25,702	0.45	-	-	-	125	2	44	25	26	90	-	
		1990/91 Maha	978	206.8	32	552	-	-	38	396	70	153	360	70	
		1991 Yala	298	-	-	40	-	-	380	396	-	340	390	385	
		1991/92 Maha	3,854	310.0	-	136	26	60	-	440	80	170	300	175	
		1992 Yala	654	4.05	4	-	-	-	41	440	-	306	450	420	
		1993/94 Maha	7,410	361.8	225	360	110	375	375	550	-	340	1,650	1,575	
		1994 Yala	5,759	-	-	-	-	-	3	22	70	-	90	85	
		1990/91 Maha	7,628	653.4	180	668	740	440	116	1,320	580	357	90	420	
		1991 Yala	7,124	-	-	-	-	980	298	704	480	204	90	350	
Angamkoleperenna	Wemaketiya	1991/92 Maha	7,958	756.0	-	40	194	120	-	1,518	670	408	180	525	
		1992 Yala	5,810	64.8	183	-	-	1,125	47	792	500	308	120	630	
		1993/94 Maha	6,457	657.0	312	680	360	180	340	396	440	102	540	175	
		1994 Yala	5,190	-	-	-	-	-	-	418	140	119	210	140	
		1990/91 Maha	8,350	285.3	6	236	100	25	11	264	-	204	45	74	
		1991 Yala	7,045	47.7	9	-	-	-	62	44	-	-	-	-	
1991/92 Maha	10,858	162.5	-	16	40	10	-	286	-	289	75	123			
1992 Yala	1,591	2.25	5	-	-	-	-	11	-	-	-	-			
1993/94 Maha	12,452	406.8	50	240	90	-	77	110	90	238	150	70			
1994 Yala	10,765	9.9	-	-	-	-	-	275	285	791	495	-			

App. 2.2-10 Crop-wise Production (2)

Scheme	Divisional Secretariat/Division	Season	Paddy	Subsidiary Food Crops						Vegetables					
				Green Gram	Coconut	Mauz	Kurubana	Gingelly	Green Chillies	Brinjal	Long Beans	Okara	Bitter Melon	Sweet Corn	
3. Badagiriya Scheme	Hambantota	1990/91 Maha	17,932	2,437.0	646	114	325	88	1,056	290	204	540	-		
		1991 Yala	7,551	16.2	68	8	75	59	330	285	43	-	18		
		1991/92 Maha	18,972	1,660.9	10	468	270	2	990	30	306	480	-		
		1992 Yala	4,091	19.5	7	-	-	18	385	305	94	-	18		
		1993/94 Maha	12,613	2,648.5	775	224	260	188	704	630	289	240	140		
		1994 Yala	25,702	0.45	-	-	125	2	44	25	26	90	-		
4. Kachigala Afa Scheme	Ambalantota	1990/91 Maha	20,832	366.3	55	14	40	40	176	40	425	240	290		
		1991 Yala	20,351	-	-	-	-	10	220	20	210	210	350		
		1991/92 Maha	19,602	492.0	0	52	80	-	198	50	476	300	315		
		1992 Yala	19,970	-	-	-	-	11	265	30	578	240	385		
		1993/94 Maha	13,854	190.0	130	396	30	39	418	140	250	180	210		
		1994 Yala	14,110	-	-	-	-	-	55	20	111	60	0		
5. Renbana Ganga Right Bank Scheme	Walaitawita	1990/91 Maha	N.A.	-	-	-	-	N.A.	-	N.A.	N.A.	N.A.	N.A.		
		1991 Yala	1,565	-	-	-	-	9	-	39	-	-	-		
		1991/92 Maha	672	-	-	-	-	12	-	57	-	-	-		
		1992 Yala	966	-	-	-	-	6	-	90	-	-	-		
		1993/94 Maha	3,209	-	-	-	-	4	-	21	-	-	-		
		1994 Yala	2,749	-	-	-	-	1	-	6	-	-	-		
6. Polwart Ganga Scheme	Matugama	1990/91 Maha	N.A.	-	-	-	-	N.A.	-	N.A.	N.A.	N.A.	N.A.		
		1991 Yala	1,499	-	-	-	-	6	-	90	-	-	-		
		1991/92 Maha	672	-	-	-	-	12	-	57	-	-	-		
		1992 Yala	966	-	-	-	-	6	-	90	-	-	-		
		1993/94 Maha	2,389	-	-	-	-	1	-	9	-	-	-		
		1994 Yala	1,004	-	-	-	-	1	-	6	-	-	-		
7. Thangula Weliyaya Scheme	Weligamu	1990/91 Maha	2,513	-	-	-	-	32	-	15	-	-	-		
		1991 Yala	1,740	-	-	-	-	1	-	6	-	-	-		
		1991/92 Maha	5,430	-	-	-	-	15	100	120	200	576	360		
		1992 Yala	5,138	-	-	-	-	15	90	12	375	384	360		
		1993/94 Maha	7,174	-	-	-	-	9	80	108	250	336	360		
		1994 Yala	2,583	-	-	-	-	6	72	24	475	360	288		
7. Thangula Weliyaya Scheme	Tangalla	1990/91 Maha	6,873	-	-	-	-	6	180	48	350	240	216		
		1991 Yala	5,662	-	-	-	-	9	160	72	450	168	288		
		1991/92 Maha	978	208.8	32	552	60	38	396	70	153	360	70		
		1992 Yala	298	-	40	-	-	380	396	-	340	390	385		
		1993/94 Maha	3,834	310.0	-	136	26	-	440	80	170	300	175		
		1994 Yala	654	4.1	4	-	-	41	440	-	306	450	420		
1993/94 Maha	7,410	361.8	225	360	110	375	550	0	340	1,650	1,575				
1994 Yala	5,759	-	-	-	-	3	22	70	-	90	RR				

Source: Departments of Agriculture in Hambantota, Matale and Kaluwa districts.



App. 2.2-11 Crop-wise Average Yield (1)

(Unit: MT/Ha)

Scheme	Divisional Secretariat	Season	Paddy	Subsidiary Food Crops						Vegetables					
				Green Gram	Cowpea	Maize	Kurakkun	Gingelly	Green Chillies	Brinjal	Long Beans	Okura	Bitter Gourd	Snake Gourd	
1. Liyaangastota Scheme	Ambalantota	1990/91 Maha	4	0.9	-	4	2	-	5	1	22.0	10.0	17.0	30.0	35.0
		1991 Yala	5.9	-	4	-	-	-	-	-	22.0	10.0	17.0	30.0	35.0
		1991/92 Maha	4.1	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1992 Yala	4.1	-	-	-	-	-	-	-	22.0	10.0	17.0	30.0	35.0
		1993/94 Maha	4.1	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1994 Yala	3.8	-	-	-	-	-	-	-	22.0	10.0	17.0	30.0	-
		1990/91 Maha	3.8	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	-
		1991 Yala	3.7	0.9	4	-	5	-	-	-	22.0	10.0	17.0	-	35.0
		1991/92 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	-
		1992 Yala	3.9	0.9	4	-	-	-	-	-	22.0	10.0	17.0	-	35.0
2. Munthawela Reservoir Scheme	Tangalle	1993/94 Maha	3.7	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1994 Yala	3.7	0.9	-	-	5	-	-	-	22.0	10.0	17.0	30.0	-
		1990/91 Maha	4.2	0.9	4	-	-	-	-	-	22.0	10.0	17.0	30.0	35.0
		1991 Yala	3.6	-	4	-	-	-	-	-	22.0	10.0	17.0	30.0	35.0
		1991/92 Maha	4	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1992 Yala	3.8	0.9	-	-	-	-	-	-	22.0	10.0	17.0	30.0	35.0
		1993/94 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	25.0	35.0
		1994 Yala	3.6	-	-	-	-	-	-	-	22.0	10.0	-	-	35.0
		1990/91 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1991 Yala	3.6	-	-	-	5	-	-	-	22.0	10.0	17.0	30.0	35.0
3. Badagiriya Scheme	Hambantota	1991/92 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1992 Yala	3.8	-0.9	-	-	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1993/94 Maha	3.8	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1994 Yala	3.7	-	-	-	-	-	-	-	22.0	10.0	17.0	30.0	35.0
		1990/91 Maha	3.6	0.9	4	2	5	-	-	-	22.0	-	17.0	30.0	35.0
		1991 Yala	3.5	0.9	-	-	-	-	-	-	22.0	-	-	-	35.0
		1991/92 Maha	3.7	0.9	4	2	5	-	-	-	22.0	-	-	30.0	-
		1992 Yala	3.7	0.9	-	-	-	-	-	-	22.0	-	-	-	-
		1993/94 Maha	3.7	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1994 Yala	3.4	0.9	-	-	-	-	-	-	22.0	10.0	17.0	30.0	-
3. Badagiriya Scheme	Hambantota	1990/91 Maha	3.8	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0
		1991 Yala	3.7	0.9	4	-	5	-	-	-	22.0	10.0	17.0	30.0	-
		1991/92 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	-
		1992 Yala	3.9	0.9	4	-	5	-	-	-	22.0	10.0	17.0	-	35.0
		1993/94 Maha	3.7	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	-
		1994 Yala	3.7	0.9	4	-	5	-	-	-	22.0	10.0	17.0	-	35.0
		1990/91 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	-
		1991 Yala	3.9	0.9	4	-	5	-	-	-	22.0	10.0	17.0	-	35.0
		1991/92 Maha	3.9	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	-
		1992 Yala	3.9	0.9	4	-	5	-	-	-	22.0	10.0	17.0	-	35.0
1993/94 Maha	3.7	0.9	4	2	5	-	-	-	22.0	10.0	17.0	30.0	35.0		
1994 Yala	3.7	0.9	-	-	5	-	-	-	22.0	10.0	17.0	30.0	-		

App. 2.2-11 Crop-wise Average Yield (2)

Scheme	Divisional Secretariat	Season	Subsidiary Food Crops							Vegetables						
			Paddy	Green Gram	Cowpea	Maize	Kurakkan	Gingelly	Green Chillies	Brinjal	Long Beans	Okra	Bitter Gourd	Snake Gourd		
4. Kachigala Ara Scheme	Ambalantota	1990/91 Maha	4	0.9	1	4	2	5	1	22.0	10.0	17.0	30.0	35.0		
		1991 Yala	3.9	-	-	4	-	-	1	22.0	10.0	17.0	30.0	35.0		
		1991/92 Maha	4.1	0.9	-	4	2	5	-	22.0	10.0	17.0	30.0	35.0		
		1992 Yala	4.1	-	-	-	-	-	1	22.0	10.0	17.0	30.0	35.0		
		1993/94 Maha	4.1	0.9	1	4	2	5	1	22.0	10.0	17.0	30.0	35.0		
		1994 Yala	3.8	-	-	-	-	-	-	22.0	10.0	17.0	-	-		
5. Benthara Ganga Right Bank Scheme	Waialawita	1990/91 Maha	N.A.	-	-	-	-	-	N.A.	N.A.	N.A.	N.A.	N.A.			
		1991 Yala	2	-	-	-	-	-	2	-	-	-	-			
		1991/92 Maha	2.7	-	-	-	-	-	2	-	-	-	-			
		1992 Yala	3	-	-	-	-	-	2	-	-	-	-			
		1993/94 Maha	2.9	-	-	-	-	-	2	-	-	-	-			
		1994 Yala	2.5	-	-	-	-	-	1	-	-	-	-			
6. Polwatte Ganga Scheme	Matugama	1990/91 Maha	N.A.	-	-	-	-	-	N.A.	N.A.	N.A.	N.A.	N.A.			
		1991 Yala	1.8	-	-	-	-	-	2	-	-	-	-			
		1991/92 Maha	2.6	-	-	-	-	-	1	-	-	-	-			
		1992 Yala	1.7	-	-	-	-	-	1	-	-	-	-			
		1993/94 Maha	2.7	-	-	-	-	-	2	-	-	-	-			
		1994 Yala	1.9	-	-	-	-	-	1	-	-	-	-			
7. Thangalu Welivaya Scheme	Weligama	1990/91 Maha	2.4	-	-	-	-	-	3	11.1	12.0	25.0	24.0			
		1991 Yala	2.3	-	-	-	-	-	3	11.3	12.0	25.0	24.0			
		1991/92 Maha	3.1	-	-	-	-	-	3	11.4	12.0	25.0	24.0			
		1992 Yala	2.4	-	-	-	-	-	3	12.0	12.0	25.0	24.0			
		1993/94 Maha	2.9	-	-	-	-	-	3	12.0	12.0	25.0	24.0			
		1994 Yala	2.7	-	-	-	-	-	3	11.4	12.0	25.0	24.0			
Tangalla	1990/91 Maha	4.2	0.9	1	4	-	-	-	1	22.0	10.0	17.0	30.0			
	1991 Yala	3.6	-	-	4	-	-	-	1	22.0	-	17.0	30.0			
	1991/92 Maha	4	0.9	-	4	2	5	-	22.0	10.0	17.0	30.0				
	1992 Yala	3.8	0.9	1	-	-	-	1	22.0	-	17.0	30.0				
	1993/94 Maha	3.9	0.9	1	4	2	5	1	22.0	-	17.0	30.0				
	1994 Yala	3.6	-	-	-	-	-	-	22.0	10.0	-	25.0				

Source: Departments of Agriculture in Hambantota, Matara and Kalutara districts.

App. 2.2-12 Production of Minor Export Crops

Product	(Unit: MT)			
	1990	1991	1992	1993
Coffee	1525 (100)	3330	3608.2	3660 (240)
Cocoa	912 (100)	1350	1308.2	1451 (159.1)
Cinnamon Quills	8233 (100)	10185	10407.9	11449 (139.1)
Cinnamon Leaf Oil	56.5 (100)	120	126	138.6 (245.3)
Cinnamon Bark Oil	1 (100)	3.5	4.2	4.6 (460)
Cardamon	140 (100)	91	115	105 (75)
Cardamon Oil	0.2 (100)	0.6	0.6	0.6 (300)
Clove	2493 (100)	1307	1394.6	1476 (59.2)
Pepper	1993 (100)	2290	2505.6	8359 (419.4)
Citronella	55.1 (100)	65	95	140 (254.1)
Nutmeg	548 (100)	524	812	893.7 (163.1)
Nutmeg Oil	3.3 (100)	5.5	12	13.2 (400)
Mace	25 (100)	23	75	82.5 (300)

Note: Figures in parenthesis show comparison with values in 1990 as 100.

Source: Administrative Reports 1992 and 1993, Department of Export Agriculture.

App. 2.2-13 Type of Fertilizer

Type of Crop	(Unit: %)				
	Organic	V-Mixture (N:4,P:30,K:12)	Urea (N:46)	TDM (N:30,K:20)	Other
Paddy	2.4	22.3	28.4	32.1	14.8
Legumes	3.2	52.8	21	19.8	3.2
Other Cereals	8.3	11.9	45.7	31.8	2.3
Onions	14	2.1	1.3	0.3	82.3
Chillies	2.7	10.7	18.8	15.9	51.9
Vegetables	63.4	1.9	3.3	4.7	26.7

Source: Household Survey of Agricultural Sector 1988/89, Department of Census and Statistics, 1992.

App. 2.2-14 Fertilizer Statistics

Item	Unit	1989	1990	1991	1992	1993*
<b>1. Local Production</b>						
Rock Phosphate	MT	24,458	32,559	19,689	25,717*	
<b>2. Imports</b>						
Volume	MT	355,000	504,669	358,587	339,521	464,929
Value	Rs. Million	1,755	2,958	2,430	2,366	3,108
Percentage of Total Import Value	%	2.2	2.7	1.9	1.5	1.6
<b>3. Fertilizer Sales by</b>						
Wholesales	%	100	100	100	100	100
Ceylon Fertilizer Company Limited	"	44.5	43.7	44.4	35	31.5
Jaratha Fertilizer Enterprise Ltd.	"	20.2	21.5	22.4	17.1	11.7
Colombo Commercial Fertilizers Ltd.	"	15.9	13.7	11.9	10.5	9.1
A. Baur & Co., Ltd.	"	10.9	9	10.9	12.6	13.3
Others	"	8.5	8.5	10.4	24.8	34.4
<b>4. Consumption</b>						
	1,000 MT	522.2 (100)	437.1 (100)	453.7 (100)	475.8 (100)	548.1 (100)
Paddy	"	238.1 (45.6)	161.2 (36.9)	179.3 (39.5)	207.8 (43.7)	247.9 (45.2)
Tea	"	128 (24.5)	134.1 (30.7)	118.9 (26.2)	110.3 (23.2)	147.1 (26.8)
Rubber	"	22.2 (4.3)	22.2 (5.1)	13.6 (3)	13.1 (2.7)	17.8 (3.3)
Coconut	"	37 (7.1)	23.7 (5.4)	28.8 (6.4)	34.3 (7.2)	35.1 (6.4)
Other Food Crops	"	28.4 (5.4)	46.4 (10.6)	50.7 (11.2)	49.5 (10.4)	44.3 (8.1)
Minor Export Crops	"	5.3 (1)	7.6 (1.7)	11.1 (2.4)	7.1 (1.5)	7 (1.3)
Others	"	63.2 (12.1)	41.9 (9.6)	51.3 (11.3)	53.7 (11.3)	48.9 (8.9)
<b>5. User in NPK Nutrients</b>						
	1,000 MT	214.9 (100)	174.2 (100)	180 (100)	186.6 (100)	216.2 (100)
Paddy	"	110.1 (51.2)	75.8 (43.5)	81.6 (45.4)	93.9 (50.3)	110.5 (51.1)
Tea	"	47.7 (22.2)	48.1 (27.6)	42.7 (23.7)	38.7 (20.7)	51.7 (23.9)
Rubber	"	8.3 (3.9)	8.4 (4.8)	5.1 (2.8)	4.8 (2.6)	6.7 (3.1)
Coconut	"	15.7 (7.3)	9.6 (5.5)	11.3 (6.3)	13.4 (7.2)	13.6 (6.3)
Other Food Crops	"	1.9 (0.9)	17 (9.8)	18.4 (10.2)	17.7 (9.5)	16 (7.4)
Minor Export Crops	"	1.3 (0.6)	2.5 (1.4)	3.6 (2)	2.3 (1.2)	2.4 (1.1)
Others	"	29.9 (13.9)	12.8 (7.4)	17.3 (9.6)	15.8 (8.5)	15.2 (7.1)
<b>6. User of Subsidy</b>						
	Rs. Million	347	-	-	-	-
<b>7. Import Ratio</b>						
		93.6	93.9	94.8	93	-

Notes: 1) \* Provisional.

2) Figures in parenthesis show comparison with total as 100.

Sources: 1) Annual Reports 1990-1993, Central Bank of Sri Lanka.

2) Economic and Social Statistics of Sri Lanka 1992, Central Bank of Sri Lanka.

3) Review of Fertilizer Year 1993, National Fertilizer Secretariat.

App. 2.2-15 Annual Fertilizer Use (1993)

(Unit: 1,000 MT)

Crop	Year	Sulphate of Ammonia (N21)	Urea (N46)	Imported Rock Phosphate (P2O5 28)	Local Rock Phosphate (P2O5 28)	Triple Super Phosphate (P2O5 46)	Muriate of Potash (K2O 60)	Compound (N:S:P:15:K:15)	Total	Nutrients			
										N	P	K	Total
Paddy	1989	0.6	139.1	-	-	32	32	34.2	238	65.8	19.9	24.3	110.1
	1990	1.8	99.2	0.2	1.3	20.5	26	12.4	161	46.6	11.6	17.5	75.7
	1993	21.2	136.5	0.06	3.2	37.7	32.7	15.4	248	68	20.6	21.9	110.5
Tea	1989	42.9	35.9	1.9	15.7	-	26	-	128	25.5	5.4	15.6	47.7
	1990	50.3	34	3.5	14.1	0.03	26.3	-	134	26.2	4.9	15.8	48
	1993	53.1	41.1	4	14.5	0.25	25.5	-	147	30.1	5.3	15.3	51.7
Rubber	1989	3.4	4	4.7	4.5	-	4.4	-	22.2	2.6	2.7	2.6	8.2
	1990	1.8	4.6	6.3	2.8	0.01	4.8	-	22.2	2.5	2.6	2.9	8.4
	1993	1.9	3.6	3.5	3.3	0.02	4	-	17.8	2.1	1.9	2.4	6.7
Coconut	1989	8.2	4.9	4.4	3.5	-	14.1	-	37	4	3	8.5	15.8
	1990	4.1	3.1	4	1.6	0.3	8.8	-	23.7	2.3	1.7	5.3	9.6
	1993	6.5	3.1	4.2	3.2	0.5	12.8	-	35.1	2.8	2.3	7.7	13.6
Other Food Crops	1989	10.1	0.6	0.2	0.3	8.8	6.2	-	28.4	2.4	4.2	3.8	10.8
	1990	16.8	5.5	1.7	0.6	10.5	8.4	-	46.4	6.1	5.5	5	17
	1993	17.9	4.4	1.5	0.04	9.7	8.2	-	44.3	5.8	4.9	4.9	16
Minor Export Crops	1989	1.6	0.7	0.7	0.8	-	1.2	-	5.3	0.6	0.5	0.7	1.8
	1990	2.7	1	1.9	0.1	-	1.5	-	7.6	1	0.6	0.9	2.5
	1993	2.3	0.7	1.6	0.1	0.3	1.5	-	7	0.8	0.6	0.9	2.4

Source: Review of Fertilizer Year 1993, National Fertilizer Secretariat.

App. 2.2-16 Fertilizer Requirement for Target Paddy Cultivation for Maha 1994/95 and Yala 1995

District/ Province	Season	V-Mixture	NPK	TDM	Urea	Concrete Super Phosphate	Murrate of Potash	Sulphate of Ammonia	TSP	(Unit:MT)	
Kulutara	Maha	-	2,290	1,235	835	365	350	170	-	-	-
	Yala	-	1,895	1,020	645	285	295	120	-	-	-
	Year	-	4,185 (25.2)	2,255 (2.9)	1,480 (1.8)	650 (5.2)	645 (5.2)	290 (0.6)	-	-	-
Western Province	Maha	-	3,645	2,065	1,960	845	740	170	-	-	-
	Yala	-	2,970	1,710	1,440	630	575	120	-	-	-
	Year	-	6,615 (39.8)	3,775 (4.9)	3,400 (4.1)	1,475 (11.9)	1,315 (10.6)	290 (0.6)	-	-	-
Galle	Maha	-	1,650	850	850	630	580	-	-	-	-
	Yala	-	1,600	800	800	600	550	-	-	-	-
	Year	-	3,250 (19.5)	1,650 (2.1)	1,650 (2.0)	1,230 (9.9)	1,130 (9.1)	-	-	-	-
Matara	Maha	-	1,605	875	1,275	-	570	-	640	-	-
	Yala	-	1,525	850	1,165	-	560	-	625	-	-
	Year	-	3,130 (18.8)	1,725 (2.2)	2,440 (2.9)	-	1,130 (9.1)	-	-	-	-
Hambantota	Maha	2860	-	2,195	2,820	285	225	-	-	-	-
	Yala	2175	-	1,700	2,015	145	125	-	-	-	-
	Year	5035 (5.7)	-	3,895 (5.0)	4,835 (5.8)	430 (3.5)	350 (2.8)	-	-	-	-
Southern Province	Maha	2860	3,255	3,920	4,945	915	1,375	-	640	-	-
	Yala	2175	3,125	3,350	3,980	745	1,235	-	625	-	-
	Year	5035 (5.7)	6,380 (38.4)	7,270 (9.4)	8,925 (10.7)	1,660 (13.4)	2,610 (21.2)	-	-	-	-
Sri Lanka	Maha	61250	8,830	50,520	54,350	8,005	8,035	38,335	3,120	-	-
	Yala	27130	7,795	26,780	29,400	4,420	4,315	9,740	1,275	-	-
	Year	88380 (100)	16,625 (100)	77,300 (100)	83,750 (100)	12,425 (100)	12,350 (100)	48,075 (100)	4,395 (100)	-	-

Note: Figures in parenthesis show comparison with Sri Lanka as 100.

Source: Agricultural Implementation Programme 1994-95, Ministry of Agriculture, Lands and Forestry.

**App. 2.2-17 Per Hectare Fertilizer Use for Target Paddy Cultivation for  
Maha 1994/95 and Yala 1995**

District	Season	Fertilizer Requirement Per Hectare Fertilizer Use		
		Cropped Area (Ha)	(MT)	(Kg/Ha)
Kulutara	Maha	19,540	5,245	268
	Yala	18,340	4,260	232
	Year	37,880 (3.6)	9,505 (2.8)	251 (75.8)
Western Province	Maha	43,955	9,425	214
	Yala	37,815	7,445	197
	Year	81,770 (7.9)	16,870 (4.9)	206 (62.2)
Galle	Maha	21,090	4,560	216
	Yala	20,395	4,350	213
	Year	41,485 (4.0)	8,910 (2.6)	215 (65.0)
Matara	Maha	19,030	4,965	261
	Yala	16,000	4,725	295
	Year	35,030 (3.4)	6,960 (2.0)	277 (83.7)
Hambantota	Maha	24,315	8,385	345
	Yala	17,940	6,160	343
	Year	42,255 (4.1)	14,545 (4.2)	344 (103.9)
Southern Province	Maha	64,435	17,910	278
	Yala	54,335	15,235	280
	Year	118,770 (11.4)	33,145 (9.7)	279 (84.3)
Sri Lanka	Maha	663,640	232,445	350
	Yala	374,535	110,855	296
	Year	1,038,175 (100)	343,300 (100)	331 (100)

Note: Figures in parenthesis show comparison with Sri Lanka as 100.

Source: Agricultural Implementation Programme 1994-95, Ministry of Agriculture, Lands and Forestry.

App. 2.2-18 Paddy Cropped Area by Seed Variety

(Unit: %)

District	Maha 1992/93						Year 1993								
	New Improved			Old Improved			New Improved			Old Improved			Total		
	Improved	Traditional	Total	Improved	Traditional	Total	Improved	Traditional	Total	Improved	Traditional	Total	Improved	Traditional	Total
Kalutara	77.5	1.4	21.1	82.0	0.2	17.8	100	100	100	79.5	0.9	19.6	100		
Galle	84.1	1.3	14.6	95.8	0.3	3.9	100	100	100	89.4	0.9	9.7	100		
Matara	90.0	0	10	97.7	0.8	1.5	100	100	100	93.6	0.4	6.0	100		
Hambantota	96.5	0.1	3.4	96.9	-	3.1	100	100	100	96.6	0.1	3.3	100		
Sri Lanka	90.2	1.4	8.4	90.6	1.1	8.3	100	100	100	90.3	1.3	8.4	100		

Source: Statistical Abstract 1994, Department of Census and Statistics.

App. 2.2-19 Paddy Cropped Area by Land Preparation Method

(Unit: %)

District	Maha 1992/93						Yala 1993						Year 1993											
	Mainly by Tractor		Mainly Buffalo Ploughed		Tractor and Buffalo Ploughed and Mammotied		Total		Mainly by Tractor		Mainly Buffalo Ploughed		Tractor and Buffalo Ploughed and Mammotied		Total		Mainly by Tractor		Mainly Buffalo Ploughed		Tractor and Buffalo Ploughed and Mammotied		Total	
	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional	Improved	Traditional
Kalutara	15.0	75.5	9.5	100	25.0	71.4	3.6	100	25.0	71.4	3.6	100	19.5	73.7	6.8	100	19.5	73.7	6.8	100				
Galle	40.2	53.3	6.5	100	35.0	59.6	5.4	100	35.0	59.6	5.4	100	37.8	56.2	6.0	100	37.8	56.2	6.0	100				
Matara	67.0	28.2	4.8	100	47.5	44.8	7.7	100	47.5	44.8	7.7	100	58.0	35.9	6.1	100	58.0	35.9	6.1	100				
Hambantota	86.1	12.9	1.0	100	92.6	7.4	-	100	92.6	7.4	-	100	88.3	11.0	0.7	100	88.3	11.0	0.7	100				
Sri Lanka	55.4	36.2	8.4	100	53.3	44.6	2.1	100	53.3	44.6	2.1	100	54.7	39.2	6.1	100	54.7	39.2	6.1	100				

Source: Statistical Abstract 1994, Department of Census and Statistics.



App. 2.2-20 Paddy Cropped Area by Sowing Method

(Unit: %)

District	Maha 1992/93						Yala 1993						Year 1993						
	Broad-casting			Transplanting			Broad-casting			Transplanting			Broad-casting			Transplanting			
	in Rows	Not in Rows	Total	in Rows	Not in Rows	Total	in Rows	Not in Rows	Total	in Rows	Not in Rows	Total	in Rows	Not in Rows	Total	in Rows	Not in Rows	Total	
Kalutara	96.9	0.3	2.8	3.1	100	84.1	3.1	12.8	15.9	100	98.2	0.2	1.6	1.8	100	98.2	0.2	1.6	1.8
Galle	99.6	0.4	-	0.4	100	99.8	-	0.2	0.2	100	99.8	0.2	-	0.2	100	99.8	0.2	-	0.2
Matara	95.2	1.0	3.8	4.8	100	100	-	-	0	100	96.6	0.7	2.7	3.4	100	96.6	0.7	2.7	3.4
Hambantota	97.4	0.2	2.4	2.6	100	98.2	0.3	1.5	1.8	100	97.0	0.8	2.2	3.0	100	97.0	0.8	2.2	3.0
Sri Lanka	78.6	5.2	16.2	21.4	100	96.3	2.0	1.7	3.7	100	80.6	4.5	14.9	19.4	100	80.6	4.5	14.9	19.4

Source: Statistical Abstract 1994, Department of Census and Statistics.

App. 2.2-21 Cropped Area by Weeding Method

(Unit: %)

District	Maha 1992/93						Yala 1993						Year 1993						
	Hand Weeding			Used Weedicide			Hand Weeding			Used Weedicide			Hand Weeding			Used Weedicide			
	Un-Weeded	Used Water	Total	Un-Weeded	Used Water	Total	Un-Weeded	Used Water	Total	Un-Weeded	Used Water	Total	Un-Weeded	Used Water	Total	Un-Weeded	Used Water	Total	
Kalutara	7.5	79.3	12.6	0.6	100	4.7	38.8	10.9	45.6	100	6.3	61.2	11.8	20.7	100	6.3	61.2	11.8	20.7
Galle	6.9	78.4	14.3	0.4	100	3.7	51.4	8.2	36.7	100	5.4	66.0	11.5	17.1	100	5.4	66.0	11.5	17.1
Matara	11.1	87.4	0.9	0.6	100	5.7	81.9	0.6	11.8	100	8.6	84.9	0.7	5.8	100	8.6	84.9	0.7	5.8
Hambantota	30.3	69.7	-	-	100	30.5	69.2	-	0.3	100	30.3	69.6	-	0.1	100	30.3	69.6	-	0.1
Sri Lanka	28.4	67.9	3.0	0.7	100	22.2	63.0	2.3	12.5	100	26.1	66.2	2.8	4.9	100	26.1	66.2	2.8	4.9

Source: Statistical Abstract 1994, Department of Census and Statistics.

**App. 2.2-22 Paddy Cropped Area by Fungicide Application**

(Unit: %)

District	Season	Fungicide Used	Fungicide Not Used
Kalutara	Maha 1988/89	2.7	97.3
	Yala 1989	0.7	99.3
Galle	Maha 1988/89	9.2	90.8
	Yala 1989	4.0	96.0
Matara	Maha 1988/89	14.8	85.2
	Yala 1989	6.2	93.8
Hambantota	Maha 1988/89	37.9	62.1
	Yala 1989	18.4	81.6
Sri Lanka	Maha 1988/89	21.8	78.2
	Yala 1989	27.0	73.0

Source: Agricultural Statistics of Sri Lanka 1992, Department of Census and Statistics.

App. 2.2-23 Paddy Marketing

Item	Unit	1989	1990	1991	1992	1993*
1. Paddy Marketing Centres	No.	338	344	292	266*	N.A.
2. Milling Stations	No.	1,075	1,075	1,074	1,073*	N.A.
- Private Milling Stations	"	1,048	1,048	1,048	1,048*	"
- Public Milling Stations	"	27	27	26	25*	"
- Total Milling Capacity (per Month)	1,000 MT	141	141	140	140*	"
3. Production	1,000 MT	2,063 (100)	2,538 (100)	2,389 (100)	2,340 (100)	2,564 (100)
- Kalutara District	"	74.3 (3.6)	79.0 (3.1)	75.0 (3.1)	74.0 (3.2)	62.0 (2.4)
- Galle District	"	73.0 (3.5)	77.0 (3.0)	66.0 (2.8)	60.0 (2.6)	60.9 (2.4)
- Matara District	"	80.3 (3.9)	93.0 (3.7)	66.0 (2.8)	83.0 (3.5)	75.9 (3.0)
- Hambantota District	"	141.9 (6.9)	120.0 (4.7)	109.0 (4.6)	120.0 (5.1)	136.0 (5.3)
4. Purchases under GPS	1,000 MT	5.0 (100)	31.1 (100)	44.4 (100)	6.6 (100)	45.9 (100)
- Kalutara District	"	-	0.005 (-)	-	-	-
- Galle District	"	-	0.002 (-)	-	-	-
- Matara District	"	-	-	-	-	-
- Hambantota District	"	0.085 (1.7)	0.424 (1.4)	0.014 (-)	0.009 (0.1)	0.667 (1.5)
5. GPS Purchases / Production	%	0.24	1.25	1.86	0.28	1.79
- Hambantota	"	0.06	0.35	0.01	0.01	0.49
6. GPS Paddy Price	Rs/Bushel	80.00	107.50	131.67	136.00	147.08
	Rs/Kg	3.83	5.14	6.30	6.51	7.04
7. Average Wholesale Price of Paddy in Open Market	Rs/Bushel	127.70	162.63	166.41	178.76	182.59
	Rs/Kg	6.11	7.78	7.96	8.55	8.74
8. Average Producer Price of Paddy	Rs/Bushel	118.11	162.63	166.41	178.76	182.59
	Rs/Kg	5.65	7.78	7.96	8.55	8.74
- Kalutara District (Raw Rice)	Rs/Kg	-	7.81	7.23	7.82	-
- Galle District (Raw Rice)	"	-	7.52	8.31	8.36	-
- Matara District (Raw Rice)	"	-	7.26	7.96	8.28	-
- Hambantota District (Raw Rice)	"	-	7.10	7.67	9.02	-

Item	Unit	1989	1990	1991	1992	1993*
9. Average Retail Price of Parboiled Rice	Rs/Kg	-	14.40	15.25	15.82	15.99
- Kalutara District	"	-	14.10	14.54	16.47	-
- Galle District	"	-	15.04	14.69	16.29	-
- Matara District	"	-	N.A.	11.58	15.92	-
- Hambantota District	"	-	N.A.	14.54	16.83	-
Average Retail Price of Raw Rice	Rs/Kg	-	14.15	14.86	16.01	-
- Kalutara District	"	-	14.79	15.50	17.04	-
- Galle District	"	-	14.11	14.84	17.09	-
- Matara District	"	-	13.48	13.71	15.96	-
- Hambantota District	"	-	14.19	13.71	15.22	-
10. Rice Imports						
Volume	1,000MT	316	172	133	237	209
Value	Rs.Million	3,396	1,758	1,589	2,852	2,386
Percentage of Total Import Value	%	4.20	1.60	1.30	1.90	1.20
11. C & F Price of Imported Rice	Rs/MT	10,750	10,224	11,950	12,021	11,426
	Rs/Kg	10.75	10.22	11.95	12.02	11.43
12. Average Wholesale Price of Imported Rice	Rs/MT	10,400.42	10,192.58	10,819.42	12,204.67	11,343.00
	Rs/Kg	10.40	10.19	10.82	12.20	11.34
13. Average Retail Price of Imported Rice	Rs/Kg	11.85	14.68	14.89	15.82	-

Notes: 1) \*Provisional.

2) Figures in parenthesis indicate comparison with total as 100.

Sources: 1) Annual Reports 1990-93, Central Bank of Sri Lanka.

2) Economic & Social Statistics of Sri Lanka 1992, Central Bank of Sri Lanka.

3) Bulletin of Selected Retail Prices 1975-1992, Department of Census and Statistics.

4) Sri Lanka Socio-economic Data 1994, Central Bank of Sri Lanka.

### App. 2.2-24 Prices of Subsidiary Food Crops Under Floor Price Scheme

(Unit: Rs/Kg)

Crop	1989	1990	1991	1992	1993	1994
Maize	4.00	4.25 (100)	5.25	5.25	6.00	6.00 (141.2)
Kurakkan	4.50	5.00 (100)	5.00	5.00	5.00	5.00 (100.0)
Groundnut (with Shell)	8.00	8.15 (100)	8.15	8.15	8.15	8.15 (100.0)
Soya Bean	7.50	7.30 (100)	7.30	7.30	14.00	14.00 (191.8)
Gingelly (Black)	8.00	8.00 (100)	8.00	8.00	8.00	8.00 (100.0)
Gingelly (White)	9.50	9.90 (100)	9.90	9.90	9.90	9.90 (100.0)
Cowpea	8.50	9.00 (100)	9.00	9.00	9.00	9.00 (100.0)
Green Gram	11.00	12.00 (100)	12.00	12.00	20.00	20.00 (166.7)
Black Gram	7.00	7.50 (100)	7.50	7.50	7.50	7.50 (100.0)
Tur Dhal	-	-	-	-	-	25.00

Note: Figures in parenthesis indicate comparison with values in 1990 as 100.

Sources: 1) Annual Reports 1991-93, Central Bank of Sri Lanka.

2) Agricultural Implementation Programme 1993-94,

Ministry of Agricultural Development and Research, 1993.

### App. 2.2-25 Average Retail Prices of Subsidiary Food Crops

(Unit: Rs/Kg)

Crop	1990	1991	1992
Maize (Grain)	9.23 (100)	11.24	11.85 (128.4)
Kurakkan (Grain)	14.39 (100)	15.30	17.78 (123.6)
Soya Bean (Grain)	17.99 (100)	17.57	27.98 (155.5)
Gingelly (Seed)	16.56 (100)	16.76	18.36 (110.9)
Cowpea (Black Grain)	22.99 (100)	19.61	22.10 (96.1)
Cowpea (Split)	27.82 (100)	31.08	30.17 (108.4)
Green Gram (Large)	28.38 (100)	N.A.	32.63 (115.0)
Green Gram (Small)	27.41 (100)	N.A.	28.51 (104.0)
Green Gram (Split)	36.42 (100)	35.61	41.49 (113.9)
Black Gram (Grain)	17.47 (100)	22.39	40.57 (232.2)
Black Gram (Split)	23.09 (100)	27.98	46.83 (202.8)

Note: Figures in parenthesis indicate comparison with values in 1990 as 100.

Source: Bulletin of Selected Retail Prices 1975-1992, Department of Census and Statistics.

App. 2.2-26 Average Retail and Producer Prices of Vegetables

Crop	District	(Unit: Rs/Kg)							
		1990		1991		1992		1993	
		RP	PP	RP	PP	RP	PP	RP	PP
Brinjal	Kalutara	18.25 (100)	-	20.63	-	19.67 (107.8)	-	-	-
	Galle	11.65 (100)	-	10.92	-	12.63 (108.4)	-	-	-
	Matara	8.60 (100)	-	12.88	-	11.20 (130.2)	-	-	-
	Hambantot	12.04 (100)	-	14.83	-	10.31 (85.6)	-	-	-
Sri Lanka	11.38 (100)	7.56 (100)	11.61	8.21	13.39 (117.7)	9.02 (119.3)	14.15 (124.3)	-	
Snake Gourd	Kalutara	13.23 (100)	-	12.04	-	12.58 (95.1)	-	-	-
	Galle	9.00 (100)	-	8.38	-	9.88 (109.8)	-	-	-
	Matara	6.42 (100)	-	6.06	-	7.86 (122.4)	-	-	-
	Hambantot	5.98 (100)	-	6.81	-	7.47 (124.9)	-	-	-
Sri Lanka	-	5.91 (100)	-	6.25	-	6.71 (113.5)	-	-	
Red Onions (Medium)	Kalutara	33.83 (100)	-	42.26	-	30.00 (88.7)	-	-	-
	Galle	38.00 (100)	-	41.58	-	27.35 (72.0)	-	-	-
	Matara	38.75 (100)	-	46.05	-	29.40 (75.9)	-	-	-
	Hambantot	35.42 (100)	-	49.00	-	33.69 (95.1)	25.17 (-)	-	-
Sri Lanka	36.47 (100)	22.72 (100)	44.82	28.50	30.22 (82.9)	20.56 (90.5)	36.25 (99.4)	22.65 (99.7)	
Dried Chillies (Grade)	Kalutara	86.67 (100)	-	123.69	-	127.44 (147.0)	-	-	-
	Galle	88.58 (100)	44.13 (100)	119.66	-	124.14 (140.1)	-	-	-
	Matara	96.25 (100)	64.47 (100)	127.15	-	131.22 (136.3)	-	-	-
	Hambantot	96.25 (100)	-	131.74	78.60	134.27 (139.5)	92.50 (-)	-	-
Sri Lanka	89.15 (100)	65.56 (100)	123.70	97.67	126.80 (142.2)	101.86 (155.4)	117.00 (131.2)	93.28 (142.3)	

Note: Figures in parenthesis indicate comparison with figures in 1990 as 100.

Source: Bulletin of Selected Retail Prices 1975-1992, Department of Census and Statistics.

App. 2.2-27 Prices of Minor Export Crops

Project	(Unit: Rs/Kg)											
	Producer Price						Auction Price					
	1990	1991	1992	1993	1990	1991	1992	1993				
Cocoa	33.89 (100)	38.35	50.98	36.98 (109.1)	38.71 (100)	52.78	63.28	48.29 (124.7)				
Coffee	23.75 (100)	21.44	23.9	30.82 (129.8)	25.38 (100)	26.38	27.21	33.09 (130.4)				
Pepper	58.66 (100)	47.42	33.62	43.00 (73.3)	63.49 (100)	50.56	36.1	48.47 (76.3)				
Clove	89.24 (100)	93.49	76.08	43.21 (48.4)	104.73 (100)	112.96	77.95	45.44 (43.4)				
Clove Stem	5.95 (100)	5.38	5.21	5.00 (84.0)	N.A.	N.A.	N.A.	N.A.				
Cinnamon Quills	158.12 (100)	164.73	168.77	178.95 (113.2)	190.28 (100)	182.38	183.35	185.38 (97.4)				
Cinnamon Leaf Oil	256.35 (100)	237.6	244.24	264.61 (103.2)	N.A.	N.A.	N.A.	N.A.				
Nutmeg	56.52 (100)	24.12	20.52	24.50 (43.3)	75.10 (100)	33.94	31.04	32.63 (43.4)				
Mace	206.17 (100)	73.02	45.16	67.94 (33.0)	249.62 (100)	85.92	61.82	89.68 (35.9)				
Cardamom	251.47 (100)	184.41	296.64	542.02 (215.5)	303.22 (100)	216.44	503.84	679.79 (224.2)				
Citronella	155.28 (100)	150.76	196.69	250.30 (161.2)	N.A.	N.A.	N.A.	N.A.				

Note: Figures in parenthesis show comparison with figures in 1990 as 100.  
Source: Administrative Reports 1992 and 1993, Department of Export Agriculture.

App. 2.2-28 Volume and Value of Minor Export Crops

Product	Unit	1991	1992	1993
Cinnamon	Volume (MT)	7,889.3 (100)	8,297.8	8,754.9 (111.0)
	Value (Rs.Million)	1,436.2 (100)	1,408.6	1,803.0 (125.5)
Cinnamon Leaf Oil	Volume (MT)	107.3 (100)	119.3	136.9 (127.6)
	Value (Rs.Million)	29.2 (100)	32.4	43.5 (149.0)
Cinnamon Bark Oil	Volume (MT)	2.5 (100)	2.8	4.6 (184.0)
	Value (Rs.Million)	35.2 (100)	33.8	62.6 (177.8)
Clove	Volume (MT)	1,037.1 (100)	1,114.5	1,163.4 (112.2)
	Value (Rs.Million)	63.6 (100)	58.9	65.1 (102.4)
Cocoa	Volume (MT)	108.7 (100)	79.3	91.5 (84.2)
	Value (Rs.Million)	3.6 (100)	3.9	7.8 (216.7)
Coffee	Volume (MT)	2,710.9 (100)	1,677.0	901.5 (33.3)
	Value (Rs.Million)	77.7 (100)	48.3	47.0 (60.5)
Pepper	Volume (MT)	2,058.3 (100)	2,146.3	7,828.6 (380.3)
	Value (Rs.Million)	139.0 (100)	121.1	385.3 (277.2)
Pepper Oil	Volume (MT)	1.8 (100)	0.2	2.4 (133.3)
	Value (Rs.Million)	2.0 (100)	0.3	1.7 (85.0)
Cardamon	Volume (MT)	29.0 (100)	20.6	15.0 (51.7)
	Value (Rs.Million)	6.9 (100)	6.2	7.6 (110.1)
Cardamon Oil	Volume (MT)	0.5 (100)	0.3	0.2 (40.0)
	Value (Rs.Million)	3.6 (100)	1.9	2.5 (69.4)
Citronella	Volume (MT)	54.9 (100)	83.1	71.9 (131.0)
	Value (Rs.Million)	11.9 (100)	17.0	20.9 (175.6)
Nutmeg/Mace	Volume (MT)	489.3 (100)	764.6	793.3 (162.1)
	Value (Rs.Million)	24.3 (100)	47.2	35.0 (144.0)
Nutmeg Oil	Volume (MT)	4.5 (100)	9.5	11.5 (255.6)
	Value (Rs.Million)	2.5 (100)	6.0	5.7 (228.0)
Arecanut	Volume (MT)	2,585.2 (100)	648.7	122.3 (4.7)
	Value (Rs.Million)	92.4 (100)	32.8	8.7 (9.4)
Betel	Volume (MT)	2,332.4 (100)	2,215.2	2,634.6 (113.0)
	Value (Rs.Million)	77.6 (100)	83.9	117.1 (150.9)
Total	Volume (MT)	19,411.7 (100)	17,179.2	23,013.5 (118.6)
	Value (Rs.Million)	2,005.7 (100)	1,902.3	2,622.2 (130.7)

Note: Figures in parenthesis show comparison with values in 1993 as 100.

Source: Administrative Reports 1992 and 1993, Department of Export Agriculture.



App. 2.2-29 Seed Production of Subsidiary Food Crops in 1994/95 (Bata-ata Seed Farm)

Crop	Varieties	Seed Class	Cropped Area (Ha)	Target Production (MT)
Cowpea	Vijaya	Registered	1.5	0.75
"	"	Foundation	0.2	0.10
"	"	Certified	3.0 <sup>1)</sup> + 1.0 <sup>2)</sup>	1.5 <sup>1)</sup> + 0.5 <sup>2)</sup>
"	Bombay	"	3.0 <sup>1)</sup>	1.5 <sup>1)</sup>
Green Gram	MI 5	Registered	1.5	0.75
"	"	Certified	5.0 <sup>1)</sup> + 2.0 <sup>2)</sup>	2.5 <sup>1)</sup> + 1.0 <sup>2)</sup>
"	Harsha	"	1.0 <sup>1)</sup>	0.5 <sup>1)</sup>
Black Gram	MT 1	Foundation	0.25	0.25
"	"	Certified	1.0 <sup>2)</sup>	1.0 <sup>2)</sup>
Soya Beans	PB1	Registered	2.0	4.0
"	PM13	Certified	2.0 <sup>1)</sup>	2.0 <sup>1)</sup>
Maize	Badra	Foundation	0.25	0.25
"	"	Certified	3.0 <sup>1)</sup> + 10.0 <sup>2)</sup>	3.0 <sup>1)</sup> + 10.0 <sup>2)</sup>
Kurakkan	Ravi	"	0.5 <sup>2)</sup>	0.25 <sup>2)</sup>
Chillies	MI 2	Registered	0.5	0.5
"	"	Foundation	0.25	0.125
Ground Nut	RS	Certified	2.0 <sup>2)</sup>	2.0 <sup>2)</sup>
Pigeon Pea	ICPL 87	"	1.0 <sup>2)</sup>	1.0 <sup>2)</sup>

Note: 1) and 2) imply contract farms and government farm, respectively.

Source: Middeniya government farm in Hambantota district.

App. 2.1-30 Seeds Paddy Production in 1994/95 Maha (Bata-ata Seed Farm)

Organization	Varieties	Seed Class	Cropped Area (Ha)	Target Production (MT)	
1. Bata-ata Seed Farm	T.354	Foundation	0.253	0.772	
	T.401	"	0.506	1.565	
	L.D. 181/5	"	2.023	6.261	
	L.D. 179/4	"	0.061	0.209	
	B.G. 300	"	4.856	15.026	
	B.W. 350	Registered	2.023	6.261	
	B.W. 351	"	6.070	18.783	
Total			15.792	48.877	
2. Contract Farms	B.G. 350	Commercial	24.484	75.132	
	B.G. 379/2	"	1.821	5.218	
	B.G. 403	"	3.642	11.270	
	B.G. 300	"	14.974	46.331	
	B.G. 94/1	"	1.619	5.009	
	B.G. 350	"	9.106	27.548	
	A.T. 303	"	4.856	15.026	
	B.G. 380	"	14.569	45.079	
Total			75.071	230.613	
3. Contract MPCS	Hungama MPCS	B.G. 352	Commercial	30.959	95.793
		D.G. 350	"	17.402	53.845
		A.T. 353	"	7.689	23.792
		B.G. 351	"	4.856	15.026
		B.G. 300	"	8.499	26.296
		B.G. 403	"	5.666	17.531
	Sub-total			75.071	232.283
	Tissamaharama MPCS	B.G. 403	Commercial	4.856	15.026
		B.G. 352	"	5.463	16.905
		B.G. 380	"	3.238	10.018
		B.G. 350	"	4.856	15.026
		B.G. 300	"	1.619	5.009
	Sub-total			20.032	61.984
Colonna MPCS	B.G. 350	Commercial	1.821	5.635	
Total			96.924	299.902	
4. Ambalantota Seed Farm	B.W. 351	Foundation	1.214	3.757	
		Registered	5.261	16.279	
	B.W. 267/3	Foundation	0.809	2.504	
		Registered	3.238	10.018	
	B.W. 272/6B	Foundation	0.405	1.044	
		Registered	2.023	5.218	
	A.T. 303	Foundation	0.405	1.252	
		Registered	2.833	8.765	
	B.W. 451	Certified	2.428	7.513	
		Foundation	0.202	0.626	
	Total			19.830	60.107
	Contract Farms	B.G. 350	Commercial	1.619	5.009
		B.G. 403	"	2.428	7.513
		B.G. 380	"	2.428	7.513
B.G. 300		"	2.023	6.261	
B.G. 379/2		"	1.214	3.757	
Total			9.712	30.053	
Ground Total			217.329	669.552	

Note: Foundation, registered, certified and commercial classes imply first, second, third and fourth generations.  
Source: Bata-ata seed farm in Hambantota district.

**App. 2.2-31 Seed Production of Subsidiary Food Crops in 1994/95 (Middeniya Government Farm)**

Crop	Varieties	Seed Class	Cropped Area (Ha)	Target Production (MT)
Cowpea	Varuni	Registered	1.5	0.75
Green Gram	Harsha	"	0.5	0.50
"	MI 5	Certified	2.0	1.00
Maize	Badra	"	2.0	2.00
Kurakkan	Ravi	"	0.5	0.25
Gingelly	MI 3	Registered	0.25	0.125
Ground Nut	RS	Certified	2.0	2.00
Brinjal	SM 164		1.0	-
Capsicum	CA 8		1.0	-
Cucumber	LY 58		1.0	-
Okura	MI 5		0.5	-
Mae	Bushitao		0.5	-
<b>Total</b>			<b>12.75</b>	<b>6.625</b>

Source: Middeniya government farm in Hambantota district.

**App. 2.2-32 Target Yield of Subsidiary Food Crops**

(Unit: Kg/Ha)	
Crop	Target Yield
Cowpea	500
Green Gram	500
Black Gram	1,000
Soya Beans	1,000
Maize	1,000
Kurakkan	500
Ground Nut	1,000
Chillies	500
Gingelly	500

Source: Middeniya government farm in Hambantota district.

**App. 2.2-33 Seed Prices of Paddy and Subsidiary Food Crops (1994)**

(Unit: Rs/Kg)			
Crop	Registered	Certified	Commercial
<b>1. Seed Paddy</b>			
Red and Samba	13.42	12.94	12.46
Others	12.94	12.46	11.98
<b>2. Subsidiary Food Crops</b>			
Cowpea (MI 35)	55.00	48.00	46.00
Cowpea (Others)	50.00	45.00	43.00
Green Gram	60.00	45.00	43.00
Maize/Sorghum	18.00	15.00	14.00
Kurakkan/Meneri	22.00	18.00	16.00
Soya Beans	35.00	30.00	28.00
Ground Nut	42.00	38.00	35.00
Gingelly (White)	45.00	40.00	38.00
Gingelly (Black/Mix)	42.00	36.00	34.00
Kollu	45.00	40.00	37.00
Sunhemp	20.00	15.00	13.00
Pigeon Pea	45.00	35.00	34.00
Sunflower	35.00	25.00	22.00
Black Gram	45.00	40.00	37.00

Source: Price list of seeds and planting materials produced by the Department of Agriculture, March, 1994.

**App. 2.2-34 Seed Prices of Vegetables (1994)**

(Unit: Rs/Kg)			
Crop	Basic	Standard	Commercial
Bitter Gourd	900.00	750.00	
Snake Gourd	900.00	750.00	
Capsicum	2,500.00	2,200.00	
Vegetable Cowpea	600.00	500.00	
Brinjal	900.00	800.00	
Okura	500.00	420.00	
Spinach	800.00	700.00	
Cucumber	850.00	750.00	
Cabbage (Lanka)	1,000.00	700.00	
Tomato	2,500.00	2,000.00	
Radish	800.00	550.00	
Bush Beans	200.00	190.00	185.00
Pole Beans	210.00	200.00	195.00
Chillies	2,500.00	900.00	850.00

Source: Price list of seeds and planting materials produced by the Department of Agriculture, March, 1994.

App. 2.2-35 Distribution of Nurseries

District	(Unit: Number)					
	Department		Private		Total	
	1992	1993	1992	1993	1992	1993
Colombo/Kalutara	-	-	24	29	24	29
Galle	-	-	3	40	3	40
Matara	1	1	3	1	4	2
Hambantota	-	-	7	8	7	8
Sri Lanka	11	10	370	366	381	376

Source: Administrative Reports 1992 and 1993, Department of Export Agriculture.

App. 2.2-36 Target Requirement of Planting Materials for Minor Export Crops (1995)

District/Pro	(Unit: No.)			
	Cocoa	Coffee*	Cinnamon	Pepper*
Kalutara		15,000 (3.2)	105,000 (9.0)	61,250 (5.0)
Western Province		50,000 (10.6)	259,000 (22.2)	227,500 (18.6)
Galle		20,000 (4.3)	350,000 (29.9)	70,000 (5.7)
Matara	50,000 (6.6)	20,000 (4.3)	350,000 (29.9)	70,000 (5.7)
Hambantota		15,000 (3.2)	140,000 (12.0)	61,250 (5.0)
Southern Province	50,000 (6.6)	55,000 (11.7)	840,000 (71.9)	201,250 (16.4)
Sri Lanka	755,000 (100)	470,000 (100)	1,169,000 (100)	1,225,000 (100)

Note: \* includes plant requirement for home gardens.

Source: Agricultural Implementation Programme 1994-95, Ministry of Agriculture, Lands and Forestry, 1994.

**App. 2.2-37 Seed and Planting Material Prices (1993)**

(Unit: Rs.)

Crop	Seed Material	Planting Materials
Cocoa	3.50 per pod	1.25 per plant
Pepper	0.20 per 3 node cutting	2.50 per plant
Coffee	34.00 per kg berries	1.25 per plant
Clove	0.20 per fruit	8.00 per plant
Nutmeg	0.20 per fruit	8.00 per plant
Cinnamon	7.50 per measure of seeds	0.20 per plant
Cardamon		0.50 per sucker
Citronella		0.50 per sucker

Source: Administrative Reports 1992 and 1993,  
Department of Export Agriculture.

**App. 2.2-38 Export Agricultural Crops Assistance Scheme**

Crop	Total Rs/Ac	Subsidy Installments (Rs/Ac)				
		1st	2nd	3rd	4th	
Cocoa	(New Planting)	6,250	2,000	550	1,200	2,500
	(Replanting)	10,700	3,500	1,000	2,000	4,200
	(Rehabilitation)	5,000	1,500	500	1,000	2,000
Coffee	(New Planting)	6,250	2,000	550	1,200	2,500
Cinnamon	(Replanting)	11,250	3,700	1,000	2,000	4,550
	(Rehabilitation)	3,250	1,000	300	600	1,350
Cardamon	(New Planting)	6,250	1,500	1,000	1,250	2,500
	(Replanting)	10,000	3,000	1,000	2,000	4,000
Pepper	(New Planting)	7,500	2,500	700	1,400	2,900
Citronella	(Replanting)	1,000	300	100	200	400

- Notes: 1) 1st installment: after land preparation.  
2nd installment: 6 months after planting.  
3rd installment: 18 months after planting.  
4th installment: 42 months after planting.
- 2) For mono cropping areas of 3 acres and above, the cash subsidy payable is 150% of the amount indicated above, which for mixed cropping areas of 0.5-3 acres, it is 125% of the amount of the base crop.

Source: Agricultural Implementation Programme 1993-94, Ministry of Agricultural Development and Research, 1993.

App. 2.2-39 Retail Prices of Fertilizers

(Unit: Rs/Kg)

Fertilizer	1989	1990	1991	1992	1993	1994
Urea (N46%)	3.47	7.60	9.62	9.85	9.85	13.00
Sulphate of Ammonia (N21%)	3.13	5.52	6.21	6.30	7.10	10.00
Triple Super Phosphate (P <sub>2</sub> O <sub>5</sub> 46%)	3.47	9.34	9.82	10.30	10.30	14.00
Imported Rock Phosphate (P <sub>2</sub> O <sub>5</sub> 28%)	2.79	4.62	4.95	5.00	5.00	-
Murate of Potash (K <sub>2</sub> O 60%)	3.38	7.80	9.14	9.50	9.50	11.00
V-Mixture (N4%, P30%, K12%)	4.12	7.92	9.98	10.40	10.40	13.00
Top Dressing Mixture (N 30%, K20%)	-	-	-	-	-	13.50
NPK (N 5%, P15%, K15%)	-	-	-	-	-	13.50

Sources: 1) Annual Reports 1990-93, Central Bank of Sri Lanka.

2) Review of Fertilizer Year 1993, National Fertilizer Secretariat.

3) Department of Agrarian Services and Multi-purpose Co-operative Societies in representative districts.

**App. 2.2-40 Fertilizer Prices Under New Revised Fertilizer Subsidy Scheme**

(Unit: Rs/Kg)

Fertilizer	Actual Cost Without Subsidy	Subsidized Price
Urea (N46%)	16.80*	10.00
Sulphate of Ammonia (N21%)	9.92	8.40
Muriate of Potash (K <sub>2</sub> O60%)	10.98	10.00
Triple Super Phosphate (P <sub>2</sub> O <sub>5</sub> 46%)	13.82*	10.80

Note: The prices are effective from April 4, 1995 onwards.

Source: Daily News dated April 5, 1995.

**App. 2.2 - 41 Retail Prices of Agro-Chemicals**

Agro-chemical	Price (Rs.)
<b>Insecticide</b>	
Monocropos	325/450ml
Secpos	325/450ml
<b>Weedicide</b>	
3-4 DPA	750/3l
MPCA	180/450ml

Source: Multi-purpose Co-operative Societies and Agrarian Services Centres in representative districts.



App. 2.2-42 Location of Agrarian Services Centres (1994)

Scheme	Agrarian Services Centre Under Scheme	No. of 4-wheel Tractors	Sales Volume of Fertilizers (MT)	No. of Agrarian Services Centres by District
1. Liyangastota Scheme	Ambalantota (Hambantota District)	1	26.2	16 in Hambantota District
2. Muruthawela Reservoir Scht Weeraketiya	(Hambantota District)	1	54.8	
	Meegasara ( do. )			
	Walasmulla ( do. )		113.8	
	Udayala ( do. )		0.7	
3. Badagiriya Scheme	Badagiriya (Hambantota District)	3	57.9	
4. Kachigala Ara Scheme	Lunama (Hambantota District)	1	13.0	
5. Benthara Ganga Right Bank Ichapana Scheme	(Kalutara District)		283.9	20 in Kalutara District
	Walagedara ( do. )		1.1	
6. Polwane Ganga Scheme	Kodagoda (Galle District)			33 in Galle District
	Mirissa (Matara District)		45.8	22 in Matara District
	Kananke ( do. )		14.4	
	Weligama ( do. )		95.5	
7. Thangalu Welyaya Scheme	Netolpitiya (Hambantota District)	1	5.0	

Source: Departments of Agrarian Services in Kalutara, Galle, Matara and Hambantota districts.

App. 2.2-43 Rural Credit Projects Financed by International Organizations

Project	Financial Organization	Date of Commencement	Period of Disbursement (Years)	Loan Amount (Rs. Million)		Credit Component (Rs. Million)	Lending Rates to Sub-borrowers (Annual Rate %)
				Donor	GOSL		
1. Kirindi Oya Irrigation and Settlement Project	ADB	April 30, 1987	6	1,064	260	37	16
2. Kegalle District Integrated Rural Development Project	IFAD	October 15, 1987	7	-	-	50	16
3. Mid-Country Perennial Crop Development Project	ADB	October 31, 1989	6	865	420	555	16
4. Small Holder Tea Developments Project	ADB	October 31, 1989	7	1,250	1,605	955	16
5. Small Farmers and Landless Credit Project	IFAD CIDA	March 1, 1990	5	660	205	-	16
		December 1, 1990	5				
6. Agricultural Rehabilitation Project	ADB	June 6, 1990	3	1,113	387	671	9 - 12.5
7. Southern Province Rural Development Project	ADB	December 20, 199	7	1,723	588	450	16
8. North-Western Province Water Resources Development Project	ADB	July 1, 1993	6	1,500	410	138	16

Source: Central Bank of Sri Lanka.

App. 2.2-44 Number of Banks (1994)

(Unit: No.)

District	People's Bank	Bank of Ceylon	Bank of Ceylon Sub-offices at Agrarian Services Centres	Co-operative Rural Banks	Regional Rural Development Banks		Thrift and Credit Co-operative Societies <sup>1)</sup>	Total	Service Density (Bank/Km <sup>2</sup> )
					Paddy	Total			
Kalutara	15 (4.5)	14 (4.2)	1 (4.3)	72 (5.8)	15 (8.9)	348 (5.1)	465 (5.2)	0.29	
Galle	17 (5.1)	16 (4.8)	1 (4.3)	84 (6.7)	12 (7.1)	445 (6.5)	575 (6.4)	0.35	
Matara	13 (3.9)	12 (3.6)	-	71 (5.7)	12 (7.1)	363 (5.3)	471 (5.3)	0.37	
Hambantota	10 (3.0)	9 (2.7)	-	33 (2.6)	8 (4.7)	304 (4.4)	364 (4.1)	0.14	
Sri Lanka	336 (100)	336 (100)	23 (100)	1,250 (100)	169 (100)	6,843 (100)	8,957 (100)	0.14	

Notes: 1) \* Primary societies.

2) Figures in parenthesis show comparison with total as 100.

Source: Central Bank of Sri Lanka.

App. 2.2-45 Cultivation Loans Granted Under the New Comprehensive Rural Credit Scheme

(Unit: Rs. Million)

Season	People's bank			Bank of Ceylon			Regional Rural Development Banks			Multi-purpose Co-operative Societies			Total*		
	Paddy	SFC	Total	Paddy	SFC	Total	Paddy	SFC	Total	Paddy	SFC	Total	Paddy	SFC	Total
1989/90 Maha	76.4	17.5	93.9	92.2	59.5	151.7	23.2	13.9	37.1	-	-	-	205.5	93.8	299.3
1990 Yala	54.1	47.9	102.0	71.4	41.1	112.5	28.1	29.1	57.2	-	-	-	155.1	126.5	281.6
Year 1990	130.5	65.4	195.9	163.6	100.6	264.2	51.3	43.0	94.3	-	-	-	360.6 (62.1)	230.3 (37.9)	590.9 (100)
1990/91 Maha	165.3	20.4	185.7	228.4	52.2	280.6	105.0	27.6	132.6	-	-	-	511.9	104.2	616.1
1991 Yala	66.3	88.8	155.1	103.9	57.4	161.3	49.1	53.9	103.0	-	-	-	222.4	213.5	435.9
Year 1991	231.6	109.2	340.8	323.3	109.6	441.9	154.1	81.5	235.6	-	-	-	734.3 (69.8)	317.7 (30.2)	1,052.0 (100)
1991/92 Maha	185.4	28.7	214.1	199.7	65.0	264.7	100.3	49.3	149.6	0.4	0.07	0.5	483.8	148.5	632.3
1992 Yala	38.6	31.8	70.4	57.0	24.8	81.7	37.6	37.7	75.3	-	-	-	134	98.5	232.5
Year 1992	224.0	60.5	284.5	236.7	89.8	326.4	137.9	87.0	224.9	0.4	0.07	0.5	617.8 (71.4)	247.1 (28.6)	864.9 (100)
1992/93 Maha	155.2	32.4	187.6	159.4	56.7	216.1	86.5	80.6	167.1	-	-	-	418.3	185.2	603.4
1993 Yala	61.4	47.7	109.1	78.7	28.0	106.7	42.8	50.7	93.5	-	-	-	185.2	131.9	317.1
Year 1993	216.6	80.1	296.7	238.1	84.7	322.8	129.3	131.3	260.6	-	-	-	639.9 (66.9)	317.1 (33.1)	957.0 (100)
Year 1994	244.3	74.5	318.8	219.4	73.7	293.1	-	-	314.3	-	-	-	-	-	995.0 (*)

Notes: 1) \* includes People's Bank, Bank of Ceylon, Regional Rural Development Banks, Multi-purpose Co-operative Societies, Hutton National Bank, Commercial Bank of Ceylon Ltd. and Development Finance Corporation of Ceylon.

2) SFC stands for subsidiary food crops.

3) Figures in parenthesis show comparison with total as 100.

Sources: 1) Central Bank of Sri Lanka.

2) Annual Report 1993, Central Bank of Sri Lanka.

App. 2.2-46 Recovery Rates of Cultivation Loans Granted Under the New Comprehensive Rural Credit Scheme  
(Unit: Rs. Million)

Year	Loans Granted			Recovered			Recovery Rate (%)		
	Paddy	Other Crops	Total	Paddy	Other Crops	Total	Paddy	Other Crops	Total
1990	290.7	199.0	489.7	288.4	174.4	462.8	99.2	87.6	94.5
1991	668.2	261.2	929.4	487.4	195.3	682.7	72.9	74.8	73.5
1992	525.1	235.0	760.1	384.8	174.6	559.4	73.3	74.3	73.6
1993 <sup>a</sup>	497.5	284.6	780.9	322.2	175.7	497.9	64.8	61.7	63.8
1994 <sup>b</sup>	228.3	57.5	287.0	10.3	4.6	14.9	4.5	8.0	5.2

Notes: 1) including People's Bank, Bank of Ceylon, Hatton National Bank, Indian Overseas Bank and Regional Rural Development Banks.

2) Provisional.

3) Incomplete data.

Source: Annual Report 1993, Central Bank of Sri Lanka

App. 2.2-47 District-wise Recovery Rates of Cultivation Loans Granted for Paddy and Other Subsidiary Food Crops Under the New Comprehensive Rural Credit Scheme

District	Year	Loans Granted		Average Loan Amount	Recovered		Recovery Rate (%)	
		No.	Amount		No.	Amount	No.	Amount
Kalutara	1990	35	138,335	3,952	32	134,080	96.9	
	1991	43	229,997	5,349	34	202,727	88.1	
	1992	31	186,892	6,029	27	167,617	89.7	
	1993	23	105,855	4,602	19	97,935	92.5	
	1994	19	83,575	4,399	11	60,970	73.0	
Galle	1990	272	1,057,417	3,888	259	1,020,871	96.5	
	1991	365	1,745,501	4,782	328	1,581,360	90.6	
	1992	263	1,361,406	5,176	227	1,215,227	89.3	
	1993	297	1,666,143	5,610	228	1,377,125	82.7	
	1994	219	1,538,166	7,024	95	770,408	50.1	
Matara	1990	178	848,814	4,769	162	787,181	92.7	
	1991	208	1,285,923	6,182	160	1,055,660	82.1	
	1992	149	880,517	5,910	123	789,462	89.7	
	1993	129	717,682	5,563	90	546,196	76.1	
	1994	85	453,015	5,330	47	252,516	55.7	
Hambantota	1990	1,618	16,617,350	10,270	1,479	15,671,535	94.3	
	1991	2,817	43,804,618	15,550	1,991	33,053,327	75.5	
	1992	2,196	34,549,973	15,733	1,689	28,588,842	82.7	
	1993	1,879	30,217,159	16,082	1,449	23,797,449	78.8	
	1994	1,592	29,010,274	18,223	750	13,851,748	47.7	

Note: Bank of Ceylon.

App. 2.2-48 Recovery Rates of Cultivation Loans Granted for Subsidiary Food Crops  
under the New Comprehensive Rural Credit Scheme

Bank	Year	Loans Granted						Recovered Recovery Rates (%)	
		Chillies	Red Onions	Potatoes	Vegetables	Others	Total	Total	Total
People's Bank	1990	18,461 (32.4)	2,824 (5.0)	32,789 (57.6)	22 ( - )	2,879 (5.0)	57,070 (100)	46,702	82.0
	1991	44,946 (52.7)	3,756 (4.4)	21,886 (25.7)	131 (0.2)	14,538 (17.0)	85,340 (100)	62,149	72.9
	1992	15,714 (29.5)	4,598 (8.7)	24,681 (46.4)	- ( - )	8,197 (15.4)	53,275 (100)	40,555	75.9
	1993	17,339 (34.5)	2,502 (5.0)	24,540 (48.9)	- ( - )	5,801 (11.6)	50,270 (100)	16,139	32.2
	1994	- ( - )	- ( - )	- ( - )	- ( - )	- ( - )	- ( - )	-	-
Bank of Ceylon	1990	12,276 (13.0)	8,285 (8.8)	70,931 (75.3)	821 (0.9)	1,933 (2.0)	94,344 (100)	81,982	86.9
	1991	21,458 (20.3)	9,579 (9.1)	46,238 (43.8)	5,164 (4.9)	23,108 (21.9)	105,625 (100)	69,528	65.9
	1992	19,405 (22.1)	11,232 (12.8)	48,777 (55.7)	2,114 (2.4)	6,102 (7.0)	87,723 (100)	64,225	73.3
	1993 <sup>1)</sup>	22,524 (29.2)	9,545 (12.4)	39,820 (51.7)	2,480 (3.2)	2,664 (3.5)	77,130 (100)	46,911	60.8
	1994 <sup>2)</sup>	7,099 (27.2)	1,470 (5.6)	16,163 (62.0)	636 (2.4)	726 (2.8)	26,191 (100)	3,375	12.9

Notes: 1) Revised figures.

2) Incomplete data.

3) Figures in parenthesis show comparison with total as 100.

Source: Annual Report 1993, Central Bank of Sri Lanka.

App. 2.2-49 Deposits and Advances of Bank of Ceylon Sub-Offices at Agrarian Services Centres

(Unit Rs. )

District	Year	Deposits		Advances	
		No.	Amount	No.	Amount
			Average		Average
Kalutara	1992	3,011	15,228,249 (4.4)	327	1,743,996 (0.8)
	1993	3,318	22,021,607 (4.2)	321	1,479,416 (0.5)
Galle	1992	1,185	5,515,476 (1.6)	10	559,223 (0.2)
	1993	1,166	6,597,761 (1.2)	9	555,080 (0.2)
Matara	1992	1,447	6,029,315 (1.8)	66	597,623 (0.3)
	1993	1,801	8,209,369 (1.5)	64	632,676 (0.2)
Sri Lanka	1992	-	344,119,452 (100)	-	226,829,889 (100)
	1993	-	530,165,344 (100)	-	290,292,520 (100)

Note: Figures in parenthesis show comparison with total as 100.

Source: Bank of Ceylon.

App. 2.2-50 Loans Granted under Development Credit Schemes

(Unit: Rs. 1,000)

District	Scheme	Loans Granted*		Duc Amount	Recovered		Recovery Rate (%)
		No.	Amount		No.	Amount	
Kalutara	Self-Employment Schemes	6,204	56,089	44,030	1,816	31,899	72.4
	Farm Machinery and Equipment Schemes	10	1,357	700	1	454	64.9
	Agricultural Inputs and Supplies Schemes	4	21	16	0	14	87.5
	Perennial Crop Production Schemes	11	692	168	0	111	66.1
	Livestock and Dairy Development Schemes	61	909	825	30	691	83.8
	Fisheries Schemes	133	22,227	13,369	45	12,301	92.0
	Janasaviya Trust Fund	109	527	172	24	157	91.3
Galle	Self-Employment Schemes	4,062	42,216	33,449	1,327	27,361	81.8
	Farm Machinery and Equipment Schemes	37	3,136	2,361	23	2,354	99.7
	Agricultural Inputs and Supplies Schemes	8	86	61	6	56	91.8
	Perennial Crop Production Schemes	174	4,069	599	8	505	84.3
	Livestock and Dairy Development Schemes	54	644	592	36	558	94.3
	Fisheries Schemes	277	18,540	12,101	89	11,096	91.7
	Janasaviya Trust Fund	36	285	71	0	28	39.4
Matara	Self-Employment Schemes	7,343	76,927	61,747	1,746	44,168	71.5
	Farm Machinery and Equipment Schemes	50	3,126	2,214	9	1,995	90.1
	Agricultural Inputs and Supplies Schemes	107	570	221	97	150	67.9
	Perennial Crop Production Schemes	94	9,863	2,278	4	1,889	82.9
	Fisheries Schemes	182	20,391	11,081	27	7,978	72.0
	Janasaviya Trust Fund	35	213	48	0	43	89.6
	Self-Employment Schemes	6,449	67,756	55,020	2,361	43,272	78.6
Hambantota	Farm Machinery and Equipment Schemes	469	14,658	12,811	304	11,425	89.2
	Agricultural Inputs and Supplies Schemes	15	220	169	13	165	97.6
	Livestock and Dairy Development Schemes	58	231	231	15	126	54.5
	Fisheries Schemes	39	4,720	3,316	16	3,118	94.0
	Janasaviya Trust Fund	24	54	54	13	39	72.2

Notes: 1) \* Cumulative.

2) As of June 30, 1994.

Source: Bank of Ceylon.

**App. 2.2-51 Rates on Deposits (1994)**

Item	Period	Annual Rate (%)
1. Fixed Deposits	3 months	11
	6 months	11.5
	12 and 24 months	12.5
	12 months (Minimum Deposits Rs. 25,000)	
2. Savings Deposits	Ordinary Savings	10
	Investment Savings	11
	Endowment Savings	12
	Co-operative Sector	13
3. Extended Savings Deposits	6 months	11.5
	12 months	13
	24 months	13
4. Co-operative Sector	12 months	14
	24 months	14.5
5. Deposits at 7 Days Notice	Minimum Deposit Rs. 25,000	7
6. Certificate of Deposits	6 months	11.5
	12 months	13
	24 months	13
7. Negotiable Savings Certificates	12 months (Offer Rate)	11.5
	12 months (Effective Rate)	13
8. Non-Transferable Savings Certificates	12 months (Offer Rate)	11.5
	12 months (Effective Rate)	13

Source: Bank of Ceylon.

**App. 2.2-52 Rates on Advances (1994)**

Item	People's bank	
	Term of Repayment	Annual Rate (%)
1. Agriculture (Paddy Cultivation Fund)	180 days	16
2. Animal Husbandry	8 years	26
3. Purchase of Agricultural Equipment	5 years	26
4. New Comprehensive Rural Credit Fund	240 days	16
5. Janasaviya Trust Fund	6 - 36 months	20
6. Small-scale Industries	7 years	24

Source: People's Bank.



App. 2.2-53 Location of Veterinary Offices (1994)

Scheme	D.S. Division	Veterinary Office Range	No. of Veterinary Offices by District
1. Liyangastota Scheme	Ambalantota Hambantota	Hambantota (No. 104)	3 offices (Hambantota, Tangalle, Tissamaharama) in Hambantota district
2. Muruthawela Reservoir Scheme	Tangalle Angunakolapelessa Weeraketiya	Tangalle (No. 105)	
3. Badagiriya Scheme	Hambantota	Hambantota (No. 104)	
4. Kachigala Ara Scheme	Ambalantota	Hambantota (No. 104)	
5. Benthara Ganga Right Bank Scheme	Walallawita Matugama	Matugama (No. 138)	4 offices (Horana, Kalutara, Matugama, Bulathsinhala) in Kalutara district
6. Polwatte Ganga Scheme	Weligama	Matara (No. 108)	3 offices (Deniyaya, Matara, Kekanadura) in Matara district 4 offices (Ambalangoda, Elpitiya, Galle, Hiniduma) in Galle district
7. Thangalu Welyaya Scheme	Tangalle	Tangalle (No. 105)	

Source: Department of Animal Production and Health.

App. 2.2-54 Number of Livestock and Poultry

District	Year	(Unit: Head)					
		Cattle	Buffaloes	Goats	Pigs	Chickens	Ducks
Kalutara	1990	40,800 (2.8)	31,000 (3.8)	11,300 (2.7)	4,400 (5.4)	684,300 (8.3)	500 (2.7)
	1991	41,100 (2.4)	31,200 (3.8)	12,500 (2.7)	3,800 (4.6)	551,900 (6.7)	500 (2.9)
	1992	39,500 (2.5)	28,900 (3.2)	13,200 (2.5)	3,800 (4.2)	656,000 (7.4)	400 (2.2)
	1993	39,800 (2.3)	29,300 (3.6)	13,800 (2.4)	4,200 (4.7)	720,000 (7.8)	300 (1.6)
Galle	1990	34,500 (2.4)	16,600 (2.0)	9,400 (2.3)	700 (0.9)	300,100 (3.6)	300 (1.6)
	1991	35,500 (2.1)	17,500 (2.1)	10,400 (2.3)	600 (0.7)	310,300 (3.8)	200 (1.2)
	1992	32,700 (2.0)	15,500 (1.7)	10,100 (1.9)	600 (0.7)	308,800 (3.5)	200 (1.1)
	1993	27,500 (1.6)	11,700 (1.4)	9,400 (1.6)	500 (0.6)	290,300 (3.1)	300 (1.6)
Matara	1990	34,500 (2.4)	15,900 (1.9)	2,200 (0.5)	200 (0.2)	156,600 (1.9)	100 (0.5)
	1991	33,400 (2.0)	14,900 (1.8)	5,100 (1.1)	200 (0.2)	191,700 (2.3)	100 (0.6)
	1992	33,500 (2.1)	14,200 (1.6)	4,800 (0.9)	200 (0.2)	188,000 (2.1)	200 (1.1)
	1993	33,500 (2.0)	11,000 (1.3)	3,600 (0.6)	200 (0.2)	163,300 (1.8)	100 (0.5)
Hambantota	1990	105,400 (7.4)	103,900 (12.6)	14,600 (3.5)	1,300 (1.6)	138,800 (1.7)	100 (0.5)
	1991	96,200 (5.7)	99,300 (12.0)	9,700 (2.1)	900 (1.1)	126,100 (1.5)	200 (1.2)
	1992	93,300 (5.8)	95,900 (10.7)	13,900 (2.6)	1,600 (1.8)	122,900 (1.4)	300 (1.6)
	1993	93,300 (5.4)	95,900 (11.7)	13,900 (2.4)	2,100 (2.3)	105,600 (1.1)	51 (0.3)
Sri Lanka	1990	1,433,400 (100)	822,700 (100)	414,700 (100)	81,000 (100)	8,250,100 (100)	18,400 (100)
	1991	1,689,800 (100)	825,000 (100)	460,000 (100)	83,500 (100)	8,260,900 (100)	17,300 (100)
	1992	1,603,800 (100)	896,600 (100)	528,300 (100)	91,200 (100)	8,852,000 (100)	18,300 (100)
	1993	1,715,800 (100)	821,360 (100)	582,600 (100)	90,100 (100)	9,263,400 (100)	18,900 (100)

Note: Figures in parenthesis show comparison with Sri Lanka as 100.

Source: Department of Animal Production and Health.

**App. 2.2-55 Pasture and Fodder Establishment**

(Unit: Ha)

District/Province	Pasture			Fodder		
	1993	1994*	1995**	1993	1994*	1995**
Kalutara	5	-	4	-	-	1
Western Province	44	31	39	7	5	21
Galle	-	1	3	-	-	2
Matara	3	-	7	1	-	6
Hambantota	5	3	3	-	1	-
Southern Province	8	4	13	1	1	8
Sri Lanka	240	328	377	50	33	153

Notes: 1) \* implies progress up to August 1994.

2) \*\* implies target figures.

Source: Agricultural Implementation Programmes, 1993-94 and 1994-45,  
Ministry of Agricultural Development and Research, 1993.

**App. 2.2-56 Prices of Livestock and Poultry (1994)**

Price	Beef (Rs/Kg)	Mutton (Rs/Kg)	Pork (Rs/Kg)	Egg (Rs/Piece)	Chicken (Rs/Head)	Duck (Rs/Head)
Wholesale Price	70 - 80	135	90	2.20 - 3.60	90	80
Retail Price	75 - 85	140	95	2.44 - 3.88	100	90

Source: Department of Animal Production and Health.

**App. 2.2-57 Catch by Fishing Type** (Unit: MT)

District	1990				1993				
	Coastal Fishing <sup>1)</sup>	Seine Fishing <sup>2)</sup>	Total	Coastal Fishing <sup>1)</sup>	Seine Fishing <sup>2)</sup>	Total	Coastal Fishing <sup>1)</sup>	Seine Fishing <sup>2)</sup>	Total
Kalutara	4,530 (68.1)	2,124 (31.9)	6,654 (100)	4,383 (49.6)	4,454 (50.4)	4,454 (100)	4,383 (49.6)	4,454 (50.4)	4,454 (100)
Galle	8,919 (69.2)	3,966 (30.8)	12,885 (100)	8,197 (59.5)	5,568 (40.5)	5,568 (100)	8,197 (59.5)	5,568 (40.5)	5,568 (100)
Matara	8,880 (82.1)	1,941 (17.9)	10,821 (100)	12,438 (95.9)	537 (4.1)	537 (100)	12,438 (95.9)	537 (4.1)	537 (100)
Hambantota (Tangalle)	6,493 (56.8)	4,943 (43.2)	11,436 (100)	4,717 (35.5)	8,578 (64.5)	8,578 (100)	4,717 (35.5)	8,578 (64.5)	8,578 (100)
Sri Lanka	93,804 (60.0)	62,607 (40.0)	157,411 (100)	76,331 (46.8)	86,837 (53.2)	86,837 (100)	76,331 (46.8)	86,837 (53.2)	86,837 (100)

Notes: 1) includes seer, trevally, blood fish (tuna, etc.), shark, skates, etc.  
 2) includes herrings, sardine, etc.

Source: Statistical Abstract 1994, Department of Census and Statistics.

**App. 2.2-58 Average Retail and Producer Prices of Fish** (unit: Rs/Kg)

Fish	Retail Price		Producer Price			
	All Island	Colombo City	All Island	Island		
	1992	1993*	1992	1993*		
Seer (Thora)	149.6	155.5	139.94	164.2	105.72	96.96
Trevally (Paraw)	119.5	119.6	93.89	110.3	78.61	67.27
Tuna (Kelawalla)	101.7	106.4	64.93	81.25	64.24	65.92
Skip Jack (Balaya)	88.06	91.37	56.35	65.63	56.66	56.92
Sail Fish (Talapath)	115.8	120	98.82	111.6	76.35	80.00

Note: \* Provisional.

Source:

App. 2.2-59 Road Kilometerage (1994)

(Unit: Km)

District	Land Area (Km <sup>2</sup> )	Population (No.)	Road Class					Total		Density				
			A	B	C*	D*	E*	A+B	A-E	Km/Km <sup>2</sup>		Population/Km		
										A+B	A-E	A+B	A-E	
Kalutara	1,588.6	961,000	57.81	60.93	-	-	-	-	118.74	-	0.07	-	8,093	-
Galle	1,635.6	971,000	96.89	365.18	318.04	320.82	52.80	1,153.73	462.07	0.28	0.71	2,101	842	
Matara	1,282.5	797,000	140.55	223.09	254.10	234.04	-	851.78	363.64	0.28	0.66	2,192	936	
Hambantota	2,579.3	531,000	115.47	271.41	204.94	318.40	-	910.22	386.88	0.15	0.35	1,373	583	
Sri Lanka*	64,453.6	17,619,000	4,288.91	6,570.82	4,922.96	9,078.33	515.97	25,376.99	10,859.73	0.47	0.39	1,622	692	

Notes: 1) \* estimates in 1992.

2) "A" Class: All roads within the network of trunk roads connecting the national capital with the provisional capitals and also connecting these capitals with one and other. Also included are other major roads (all roads paved and bitumen surfaced with carriage way between 24ft to 36ft and platform width 36 ft to 56 ft).

"B" Class: Main roads connecting other important towns and also providing important links within the trunk route system (metalled and bitumen with a small percentage gravelled).

"C" Class: Other road such as agricultural roads and local roads (single carriage way of 12ft width and a platform width 22ft mostly metalled but with a small percentage gravelled).

"D" Class: Gravelled road with 8 - 10ft width surface generally motorable during dry weather only.

"E" Class: Bridle paths, generally unmotorable but some are jeepable.

Sources: 1) Road Development Authority.

2) Southern Province in Figures 1993, Planning Secretariat, Southern Provincial Council.

App. 2.2-60 Capital Investment for Water Supply and Drainage Schemes

(Unit: Rs. Million)

Source	1992	1993	1994	1995*
Consolidated Fund	817.5	1,271.7	845.2	1,279.4
Foreign Fund	1,699.7	1,705.2	1,615.5	1,755.0
IDA	443.6	359.0	351.9	270.4
ADB	419.5	776.5	630.0	625.0
France	448.5	53.0	180.0	197.9
OECF (Japan)	54.9	100.0	125.0	305.0
JICA (Japan)	-	-	-	30.0
China	178.2	158.2	104.5	-
FINNIDA	115.0	96.0	159.0	-
Others	40.0	162.5	65.1	326.7
Total	2,517.2	2,976.9	2,460.7	3,034.4

Note: \* Provisional.

Source: National Water Supply and Drainage Board.

App. 2.2-61 Water Supply Coverage (1992)

(Unit: %)

Scheme/District	D.S. Division	Total Coverage	Piped Schemes	Tube Wells with Hand Pumps	Protected Dug Wells	Unprotected Sources
1. Liyangastota Scheme	Ambalantota	52	38	6	8	48
	Hambantota	39	19	1	19	61
2. Muruthawela Reservoir Scheme	Tangalle	57	46	1	10	43
	Angunakolapeless	85	13	54	18	15
	Weeraketiya	55	10	8	37	45
3. Badagiriya Scheme	Hambantota	39	19	1	19	61
4. Kachigala Ara Scheme	Ambalantota	52	38	6	8	48
5. Benthara Ganga Right Bank Scheme	Walallawita	N.A.	N.A.	N.A.	N.A.	N.A.
	Matugama	44	-	-	44	56
6. Polwatte Ganga Scheme	Weligama	53	4	-	49	47
7. Thangalu Welyaya Scheme	Tangalle	57	46	1	10	43
Kalutara District		54	9	1	44	46
Galle District		41	3	1	37	59
Matara District		36	9	27	-	64
Hambantota District		55	22	7	26	45

Source: National Water Supply and Drainage Board.

**App. 2.2-62 Electrification (1994)**

<b>District</b>	<b>No. of Households</b>	<b>No. of Beneficiaries</b>	<b>Electrification (%)</b>
Kalutara	222,706	141,968	63.7
Galle	211,417	95,971	45.4
Matara	175,443	76,591	43.7
Hambantota	121,543	28,175	23.2
Sri Lanka	3,829,490	1,691,818	44.2

Source: Ceylon Electricity Board.

App. 2.2-63 Telecommunications (1994)

Scheme/District	D.S. Division	Land		Population	Exchange	Switching	Primary	Direct Exchange	Density	
		Area	(Km <sup>2</sup> )						Lines (DEL)	Population
1. Liyangastota Scheme	Ambalantota	248.0	64,820	1	512	800	320	4.94	0.78	
2. Muruthawela Reservoir Scheme	Hambantota	476.8	44,746	1	448	800	424	9.48	1.12	
3. Badagiriya Scheme	Tangalle	153.4	66,535	1	500	600	364	5.47	0.42	
4. Kachigala Ara Scheme	Angunakolapelessa	169.7	42,334	1	250	350	72	1.7	2.36	
5. Bentharaganga Right Bank Scheme	Weeraketiya	208.3	61,075	1	250	200	50	0.82	4.17	
6. Polwatte Ganga Scheme	Hambantota	476.8	44,746	1	448	800	424	9.48	1.12	
7. Thangalu Weliyaya Scheme	Ambalantota	248.0	64,820	1	512	800	320	4.94	0.78	
Kalutara District	Walallawita	215.0	50,318	-	N.A.	N.A.	N.A.	-	-	
Galle District	Matugama	120.5	72,265	1	456	1,900	399	5.22	0.3	
Matara District	Weligama	52.2	67,773	1	200	200	140	2.07	0.37	
Hambantota District	Tangalle	153.4	66,535	1	500	600	364	5.47	0.42	
		1,588.6	961,000*	16	6,816	7,900	4,890	5.09	0.32	
		1,635.6	971,000*	14	4,615	6,070	3,199	3.29	0.51	
		1,282.5	797,000*	17	2,126	2,966	1,817	2.28	0.71	
		2,579.3	531,000*	13	3,622	5,450	2,183	4.11	1.18	

Note: \* estimated in 1993.

Source: Ministry of Posts and Telecommunications.

App. 2.2-64 Education (1993)

Scheme/District	D.S. Division	Land Area (Km <sup>2</sup> )	Population (No.)	Schools (No.)			Density		
				Primary	Secondary	Collegiate	Total	Schools/1,000 Population	Km <sup>2</sup> /School
1. Liyangastota Scheme	Ambalantota	248.0	64,820 *	27	25	7	59	0.91	4.20
2. Muruthawela Reservoir	Hambantota	476.8	44,746 *	37	28	5	70	1.56	6.81
Scheme	Tangalle	153.4	66,535 *	39	32	9	80	1.20	1.92
Scheme	Angunakolapelessa	169.7	42,334 *	26	22	5	53	1.25	3.20
Scheme	Weeraketiya	208.3	61,075 *	48	40	12	100	1.64	2.08
Scheme	Hambantota	476.8	44,746 *	37	28	5	70	1.56	6.81
4. Kachigala Ara Scheme	Ambalantota	248.0	64,820 *	27	25	7	59	0.91	4.20
5. Benthara Ganga Right Bank Scheme	Walallawita	215.0	50,318 *	37	27	3	67	1.33	3.21
Scheme	Matugama	120.5	72,265 *	44	31	8	83	1.15	1.45
6. Polwatte Ganga Scheme	Weligama	52.2	67,773 *	29	24	10	63	0.93	0.83
Scheme	Tangalle	153.4	66,535 *	39	32	9	80	1.20	1.92
7. Thangalu Weliyaya Scheme	Tangalle	1,588.6	961,000	457	352	99	908	0.94	1.75
Kalutara District		1,655.6	971,000	484	384	125	993	1.02	1.65
Galle District		1,282.5	797,000	366	316	108	790	0.99	1.62
Matara District		2,579.3	531,000	301	251	78	630	1.19	4.09
Hambantota District									

Note: \* estimated in 1994.

Source: Ministry of Education and Higher Education.



App. 2.2-65 Medical Services (1992)

Scheme/District	D.S. Division	Land Area (Km <sup>2</sup> )	Population		Name of Hospitals				Total	Number of Beds	Density		
			(No.)	(Km <sup>2</sup> )	Base Hospital	District Hospital	Peripheral Unit	Rural Hospital			Maternity Home/ Central Dispensary	Hospitals/ 1,000 Population	Km <sup>2</sup> / Hospital
1. Liyangastota	Ambalantota	248.0	64,820*	0	0	1	0	0	1	61	0.02	248.0	0.94
Scheme	Hambantota	476.8	44,746*	1	0	0	0	0	1	156	0.02	476.8	3.49
2. Muruthawela	Tangalle	153.4	66,535*	0	1	0	0	0	1	121	0.02	153.4	1.82
Reservoir	Angunakolapelessa	169.7	42,334*	0	0	1	0	0	1	32	0.02	169.7	0.76
Scheme	Weeraketiya	208.3	61,075*	0	0	0	0	1	1	17	0.02	208.3	0.28
3. Badaginya	Hambantota	476.8	44,746*	1	0	0	0	0	1	156	0.02	476.8	3.49
Scheme													
4. Kachigala Ara	Ambalantota	248.0	64,820*	0	0	1	0	0	1	61	0.02	248.0	0.94
Scheme													
5. Bentbara Ganga	Wallawita	215.0	50,318*	-	-	-	-	-	N.A.	N.A.	-	-	-
Right Bank	Matugama	120.5	72,265*	-	-	-	-	-	N.A.	N.A.	-	-	-
Scheme													
6. Polwate Ganga	Weligama	52.2	67,773*	0	1	0	0	0	1	148	0.02	52.2	2.18
Scheme													
7. Thangalu	Tangalle	153.4	66,535*	0	1	0	0	0	1	121	0.02	153.4	1.82
Weliyaya Scheme													
Kalutara District		1,588.6	961,000**	-	-	-	-	-	0	N.A.	-	-	-
Galle District		1,635.6	971,000**	1	6	8	6	21	42	1,584	0.04	38.9	1.63
Matara District		1,282.5	797,000**	1	2	6	7	19	35	2,355	0.04	36.6	2.95
Hambantota District		2,579.3	531,000**	1	5	5	4	16	31	1,066	0.06	83.2	2.01

Note: \* and \*\* estimated in 1994 and 1993, respectively.

Source: Southern Province in Figures 1993, Planning Secretariat, Southern Provincial Council.

App. 2.2-66 Vital Statistics

Item	Kalutara	Galle	Matara	Hantantota	Sri Lanka
Birth Rate per 1,000 Population (1992)	15.8	20.1	20.2	16.3	20.1
Death Rate per 1,000 Population (1992)	5.6	5.8	5.4	3.7	5.6
Maternal Mortality Rate per 1,000 Live Birth (1988)	0.3	0.3	0.2	-	0.4
Infant Mortality Rate per 1,000 Live Births (1991)	16.5	12.1	21.6	6.4	17.2

Source: Statistical Abstract 1994, Department of Census and Statistics.

App. 2.2-67 Socio-economic Situation (1994)

Scheme	D.S. Division	Population (No.)	Households (No.)	Unemployed Population <sup>1)</sup> (No.)	Poverty Alleviation Programme			Projects Funded with Janasaviya Trust Fund
					Food Stamp Recipients (No. of Households)	Janasaviya Recipients (No. of Households)	Total Recipients (%)	
1. Liyangastota Scheme	Ambalantota	64,820	14,112	14,796 (22.8%)	8,064 (57.1%)	-	57.1	Small Tank Rehabilitation Project, Rural Road Construction & Rehabilitation Project, etc.
	Hambantota	44,746	10,702	5,674 (12.7%)	1,824 (17.0%)	3,729 (34.9%)	51.9	Small Tank & Canal Rehabilitation Project, Rural Road Rehabilitation Project, Potable Water Supply Project, etc.
2. Muruthawela Reservoir	Tangalle	66,535	14,226	10,120 (15.2%)	1,707 (12.0%)	3,962 (27.8%)	39.8	Small Tank Rehabilitation Project, Agricultural Well Construction Project, Rural Road Construction Project, etc.
	Angurakolapelessa	42,334	9,850	11,679 (27.6%)	5,943 (60.3%)	-	60.3	Small Tank Rehabilitation Project, Agricultural Well Construction Project, Potable Water Supply Project, etc.
	Weeraketiya	61,075	13,150	11,346 (18.6%)	9,706 (73.8%)	-	73.8	Small Tank Rehabilitation Project, Agricultural Well Construction Project, etc.
3. Badaginya Scheme	Hambantota	44,746	10,702	5,674 (12.7%)	1,824 (17.0%)	3,729 (34.9%)	51.9	Small Tank & Rehabilitation Project, Rural Road Rehabilitation Project, Potable Water Supply Project, etc.
4. Kachigala Ara Scheme	Ambalantota	64,820	14,112	14,796 (22.8%)	8,064 (57.1%)	-	57.1	Small Tank Rehabilitation Project, Rural Road Construction & Rehabilitation Project, etc.
5. Bentara Ganga Right Bank Scheme	Walallawita	50,318	12,350	N.A. (10.2%) <sup>2)</sup>	973 (7.9%)	3,948 (31.9%)	39.8	Small Canal Digging Project, Rural Road Rehabilitation Project, etc.
	Mangama	72,265	18,850	N.A. (10.2%) <sup>2)</sup>	8,814 (46.8%)	-	46.8	None
6. Polwate Ganga Scheme	Weligama	67,773	14,423	10,863 (16.0%)	9,539 (66.1%)	-	66.1	Small Canal Rehabilitation Project, Rural Road Construction Project, etc.
7. Tangalu Welyaya Scheme	Tangalle	66,535	14,226	10,120 (15.2%)	1,707 (12.0%)	3,962 (27.8%)	39.8	Small Tank Rehabilitation Project, Agricultural Well Construction Project, Rural Road Construction Project, etc.

Notes: 1) Figures in parenthesis show proportion of the total population.

2) Figures in parenthesis are average estimates of Kalutara district.

Source: Each D.S. office.

### App. 2.3-1 Farmgate Price of Rice

Price Structure	Unit	1994 Price	2000 Price
CIF Price (Colombo Port)	US\$/MT	216	174
Foreign Exchange Rate (US\$ 1=Rs. 50)	Rs/MT	10,800	8,700
Port Charge	"	+225	+225
Distributor's Margin	"	+1,607	+1,295
Transport and Handling (Port - Wholesalers)	"	+150	+150
Transport (Farm - Wholesalers)	"	-459	-459
Price Ex-mill	"	12,323	9,911
Milling Adjustment (0.68)		8,380	6,739
Milling Cost Less By-product Value	Rs/MT	-469	-469
Economic Farmgate Price	"	7,911	6,270
Financial Farmgate Price	"	7,420	7,420

- Note:
- 1) The 2000 prices for the above products were estimated based on the World Bank's projected international market price (1994 constant price). For base data, reference was made to "Commodity Markets and the Developing Countries", World Bank Quarterly, November 1994.
  - 2) Port charges were calculated at Rs. 265 multiplied by SCF of 0.85.
  - 3) Distributor's margin was calculated at 17.5% of CIF price, multiplied by SCF of 0.85.
  - 4) Assuming an average transportation distance of 200 Km from Colombo to the Project areas, the transport cost was calculated at Rs. 2.7/t-km multiplied by SCF of 0.85.

**App. 2.3-2: Farmgate Price of Urea (N 46%) :**

Price Structure	Unit	1994 Price	2000 Price
CIF Price (Colombo Port)	US\$/MT	246	267
Foreign Exchange Rate (US\$ 1=Rs. 50)	Rs/MT:	12,300	13,350
Port Charges	"	+299	+299
Distributor's Margin	"	+2,120	+2,304
Transport and Handling (Port - Wholesalers)	"	+150	+150
Transport (Farm - Wholesalers)	"	+459	+459
Economic Farmgate Price	"	15,328	16,562
Economic Farmgate Price in Nutrients	"	33,322	36,004
Financial Farmgate Price	"	13,000	13,000

- Notes:
- 1) The 1994 price for urea imported from Indonesia or Bangladesh was estimated on the basis of the subsidy rate in effect during the 1994/95 Maha season.
  - 2) The 2000 price for urea was estimated based on the World Bank's projected international market price (1994 constant price). For base data, reference was made to "Commodity Markets and the Developing Countries", World Bank Quarterly, November 1994.
  - 3) Port charges were calculated at Rs. 352 multiplied by SCF of 0.85.
  - 4) Distributor's margin was calculated at 20.3% of CIF price, multiplied by SCF of 0.85.
  - 5) Assuming an average transportation distance of 200 Km from Colombo to the Project areas, the transport cost was calculated at Rs. 2.7/t-km multiplied by SCF of 0.85.

### App. 2.3-3 Farmgate Price of Triple Super Phosphate (P<sub>2</sub>O<sub>5</sub> 46%)

Price Structure	Unit	1994 Price	2000 Price
CIF Price (Colombo Port)	US\$/MT	211	229
Foreign Exchange Rate (US\$ 1=Rs. 50)	Rs/MT	10,550	11,450
Port Charges	"	+225	+225
Distributor's Margin	"	+1,289	+1,402
Transport and Handling (Port - Wholesalers)	"	+150	+150
Transport (Farm - Wholesalers)	"	+459	+459
Economic Farmgate Price	"	12,673	13,686
Economic Farmgate Price in Nutrients	"	27,550	29,752
Financial Farmgate Price	"	14,000	14,000

- Notes:
- 1) The 1994 price for TSP imported from Tunisia was estimated on the basis of the subsidy rate in effect during the 1994/95 Maha season.
  - 2) The 2000 price for TSP was estimated based on the World Bank's projected international market price (1994 constant price). For base data, reference was made to "Commodity Markets and the Developing Countries", World Bank Quarterly, November 1994.
  - 3) Port charges were calculated at Rs. 265 multiplied by SCF of 0.85.
  - 4) Distributor's margin was calculated at 14.4% of CIF price, multiplied by SCF of 0.85.
  - 5) Assuming an average transportation distance of 200 Km from Colombo to the Project areas, the transport cost was calculated at Rs. 2.7/t-km multiplied by SCF of 0.85.

### App. 2.3-4 Farmgate Price of Murate of Potash (K<sub>2</sub>O 60%)

Price Structure	Unit	1994 Price	2000 Price
CIF Price (Colombo Port)	US\$/MT	161	176
Foreign Exchange Rate (US\$ 1=Rs. 50)	Rs/MT	8,050	8,800
Port Charges	"	+225	+225
Distributor's Margin	"	+1,213	+1,324
Transport and Handling (Port - Wholesalers)	"	+150	+150
Transport (Farm - Wholesalers)	"	+459	+459
Economic Farmgate Price	"	10,097	10,958
Economic Farmgate Price in Nutrients	"	16,828	18,263
Financial Farmgate Price	"	11,000	11,000

- Notes:
- 1) The 1994 price for MOP imported from South Korea was estimated on the basis of the subsidy rate in effect during the 1994/95 Maha season.
  - 2) The 2000 price for MOP was estimated based on the World Bank's projected international market price (1994 constant price). For base data, reference was made to "Commodity Markets and the Developing Countries", World Bank Quarterly, November 1994.
  - 3) Port charges were calculated at Rs. 265 multiplied by SCF of 0.85.
  - 4) Distributor's margin was calculated at 17.7% of CIF price, multiplied by SCF of 0.85.
  - 5) Assuming an average transportation distance of 200 Km from Colombo to the Project areas, the transport cost was calculated at Rs. 2.7/t-km multiplied by SCF of 0.85.

### App. 2.3-5 Farmgate Price of V-Mixture, TDM and NPK

Fertilizer	Price for Evaluation	Farmgate Price (Rs/MT)	
		1994	2000
V-Mixture (N:4, P:30, K:12)	Economic Price	11,617	12,758
	Financial Price	13,000	13,000
TDM (N:30, P: 0, K:20)	Economic Price	13,363	14,454
	Financial Price	13,500	13,500
NPK (N:5, P:15, K:15)	Economic Price	8,323	9,002
	Financial Price	13,500	13,500

Note: The 1994 and 2000 economic prices were estimated based on Tables from 2.3-2 through 2.3-4.



### App. 2.3-6 Breakdown of Construction Cost

(Unit: Rs.1,000)

Scheme/Item	Financial	Conversion Factor	Economic
<b>Liyangastota Scheme</b>			
(1) Construction Cost	334,380	0.85	284,223
(2) Land Acquisition	1,670	0.85	1,420
(3) Engineering Service	26,750	0.85	22,738
(4) Administration	16,720	0.85	14,212
(5) Physical Contingency	50,150	0.85	42,627
(6) Price Contingency	42,970	0	0
<b>Total</b>	<b>472,640</b>		<b>365,220</b>
<b>Muruthawela Reservoir Scheme</b>			
(1) Construction Cost	342,270	0.85	290,929
(2) Land Acquisition	1,710	0.85	1,454
(3) Engineering Service	27,380	0.85	23,273
(4) Administration	17,110	0.85	14,544
(5) Physical Contingency	51,340	0.85	43,639
(6) Price Contingency	43,980	0	0
<b>Total</b>	<b>483,790</b>		<b>373,839</b>
<b>Badagiriya Scheme</b>			
(1) Construction Cost	37,320	0.85	31,722
(2) Land Acquisition	190	0.85	162
(3) Engineering Service	2,990	0.85	2,541
(4) Administration	1,870	0.85	1,590
(5) Physical Contingency	5,580	0.85	4,743
(6) Price Contingency	4,800	0	0
<b>Total</b>	<b>52,750</b>		<b>40,758</b>
<b>Benthara Ganga Right Bank Scheme</b>			
(1) Construction Cost	122,760	0.85	104,346
(2) Land Acquisition	610	0.85	519
(3) Engineering Service	9,820	0.85	8,347
(4) Administration	6,140	0.85	5,219
(5) Physical Contingency	18,420	0.85	15,657
(6) Price Contingency	15,780	0	0
<b>Total</b>	<b>173,530</b>		<b>134,088</b>
<b>Polwatte Ganga Scheme</b>			
(1) Construction Cost	115,630	0.85	98,285
(2) Land Acquisition	580	0.85	493
(3) Engineering Service	9,250	0.85	7,863
(4) Administration	5,780	0.85	4,913
(5) Physical Contingency	17,340	0.85	14,739
(6) Price Contingency	14,860	0	0
<b>Total</b>	<b>163,440</b>		<b>126,293</b>
<b>Thangalu Welyaya Scheme</b>			
(1) Construction Cost	83,530	0.85	71,001
(2) Land Acquisition	420	0.85	357
(3) Engineering Service	6,680	0.85	5,678
(4) Administration	4,180	0.85	3,553
(5) Physical Contingency	12,540	0.85	10,659
(6) Price Contingency	10,730	0	0
<b>Total</b>	<b>118,080</b>		<b>91,248</b>

**App. 2.3-7 (1/6) Annual Changes in Cropped Area and Yield Under Llyangastota Scheme**

Item		1	2	3	4	5	6	7	8	9	10-25
<b>1. Cropped Area (Ha)</b>											
(1) Paddy	(FW/O)	9,458	9,458	9,458	9,458	9,458	9,458	9,458	9,458	9,458	8,985
	(FW)	4,729	4,729	4,729	4,729	4,729	11,630	11,630	11,630	11,630	11,630
(2) Chillies	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	612	612	612	612	612
(3) Reeds	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
<b>2. Average Yield (Kg/Ha)</b>											
(1) Paddy	(FW/O)	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,400	3,060
	(FW)	3,400	3,400	3,400	3,400	3,400	5,500	5,500	5,500	5,500	5,500
(2) Chillies	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	1,000	1,000	1,000	1,000	1,000
(3) Reeds	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-

Note: FW/O and FW represent the future without project case and the future with project case.

**App. 2.3-7 (2/6) Annual Changes in Cropped Area and Yield  
Under Muruthawela Reservoir Scheme**

Item		1	2	3	4	5	6	7	8	9	10-25
<b>1. Cropped Area (Ha)</b>											
(1) Paddy	(FW/O)	8,141	8,141	8,141	8,141	8,141	8,141	8,141	8,141	8,141	7,734
	(FW)	4,071	4,071	4,071	4,071	4,071	10,310	10,310	10,310	10,310	10,310
(2) Chillies	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	1,080	1,080	1,080	1,080	1,080
(3) Reeds	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
<b>2. Average Yield (Kg/Ha)</b>											
(1) Paddy	(FW/O)	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,150
	(FW)	3,500	3,500	3,500	3,500	3,500	5,500	5,500	5,500	5,500	5,500
(2) Chillies	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	1,000	1,000	1,000	1,000	1,000
(3) Reeds	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-

Note: FW/O and FW represent the future without project case and the future with project case.

App. 2.3-7 (3/6) Annual Changes in Cropped Area and Yield Under Badagiriya Scheme

Item		1	2	3	4	5	6	7	8	9	10-25
<b>1. Cropped Area (Ha)</b>											
(1) Paddy	(FW/O)	844	844	844	844	844	844	844	844	844	802
	(FW)	422	422	422	422	422	984	984	984	984	984
(2) Chillies	(FW/O)	42	42	42	42	42	42	42	42	42	40
	(FW)	21	21	21	21	21	422	422	422	422	422
(3) Reeds	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
<b>2. Average Yield (Kg/Ha)</b>											
(1) Paddy	(FW/O)	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,240
	(FW)	3,600	3,600	3,600	3,600	3,600	5,500	5,500	5,500	5,500	5,500
(2) Chillies	(FW/O)	500	500	500	500	500	500	500	500	500	450
	(FW)	500	500	500	500	500	1,000	1,000	1,000	1,000	1,000
(3) Reeds	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-

Note: FW/O and FW represent the future without project case and the future with project case.

App. 2.3-7 (4/6) Annual Changes in Cropped Area and Yield Under Benthara Ganga Right Bank Scheme

Item		1	2	3	4	5	6	7	8	9	10-25
<b>1. Cropped Area (Ha)</b>											
(1) Paddy	(FW/O)	630	630	630	630	630	630	630	630	630	599
	(FW)	315	315	315	315	315	1,255	1,255	1,255	1,255	1,255
(2) Chillies	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
(3) Reeds	(FW/O)	20	20	20	20	20	20	20	20	20	20
	(FW)	10	10	10	10	10	48	48	48	48	48
<b>2. Average Yield (Kg/Ha)</b>											
(1) Paddy	(FW/O)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,250
	(FW)	2,500	2,500	2,500	2,500	2,500	5,000	5,000	5,000	5,000	5,000
(2) Chillies	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
(3) Reeds	(FW/O)	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
	(FW)	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000

Note: FW/O and FW represent the future without project case and the future with project case.

App. 2.3-7 (5/6) Annual Changes in Cropped Area and Yield Under Polwatte Scheme.

Item		1	2	3	4	5	6	7	8	9	10-25
<b>1. Cropped Area (Ha)</b>											
(1) Paddy	(FW/O)	560	560	560	560	560	560	560	560	560	532
	(FW)	280	280	280	280	280	840	840	840	840	840
(2) Chillies	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
(3) Reeds	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	28	28	28	28	28
<b>2. Average Yield (Kg/Ha)</b>											
(1) Paddy	(FW/O)	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	2,700
	(FW)	3,000	3,000	3,000	3,000	3,000	5,000	5,000	5,000	5,000	5,000
(2) Chillies	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
(3) Reeds	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	4,000	4,000	4,000	4,000	4,000

Note: FW/O and FW represent the future without project case and the future with project case.

App. 2.3-7 (6/6) Annual Changes in Cropped Area and Yield Under Thangalu Welyaya Scheme

Item		1	2	3	4	5	6	7	8	9	10-25
<b>1. Cropped Area (Ha)</b>											
(1) Paddy	(FW/O)	474	474	474	474	474	474	474	474	474	450
	(FW)	237	237	237	237	237	671	671	671	671	671
(2) Chillies	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
(3) Reeds	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	20	20	20	20	20
<b>2. Average Yield (Kg/Ha)</b>											
(1) Paddy	(FW/O)	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	2,700
	(FW)	3,000	3,000	3,000	3,000	3,000	5,000	5,000	5,000	5,000	5,000
(2) Chillies	(FW/O)	-	-	-	-	-	-	-	-	-	-
	(FW)	-	-	-	-	-	-	-	-	-	-
(3) Reeds	(FW/O)	0	0	0	0	0	0	0	0	0	0
	(FW)	0	0	0	0	0	4,000	4,000	4,000	4,000	4,000

Note: FW/O and FW represent the future without project case and the future with project case.

App. 2.3-8 (1/2) Crop Budgets of Paddy at Full Development

Item	Price for Evaluation <sup>1)</sup>	Unit	Unit Price / Conversion factor	Liyanggaon Scheme			Munibaowla Reservoir Scheme			Bulagryya Scheme			Bombura Gandhi Right Bank Scheme			Polwarde Ganga Scheme			Thungalu Walyaya Scheme		
				P <sup>2)</sup>	FW/O <sup>3)</sup>	FW <sup>4)</sup>	P	FW/O	FW	P	FW/O	FW	P	FW/O	FW	P	FW/O	FW	P	FW/O	FW
<b>1. Gross Production Value</b>																					
(1) Yield	F	Kg/Ha	Rs.7.42/Kg	3,400	3,080	5,500	3,150	5,500	3,600	3,240	5,500	2,500	2,250	5,000	3,000	2,700	5,000	3,000	2,700	5,000	
(2) Production Value	E	Rs/Ha		25,228	22,705	40,810	23,373	40,810	26,712	24,041	40,810	18,550	16,695	37,100	22,260	20,034	37,100	22,260	20,034	37,100	
(3) By-product Value				21,318	19,136	34,485	19,751	34,485	22,572	20,315	34,485	15,675	14,108	31,350	18,810	16,929	31,350	18,810	16,929	31,350	
- Bran	F	Rs/Ha		406	367	660	420	378	660	452	389	660	300	270	600	300	324	600	300	324	
	E		(0.85)	347	312	561	357	321	561	387	331	561	255	230	510	306	275	510	306	275	
- Chaff	F	Rs/Ha		267	240	431	274	247	431	242	224	431	196	176	392	235	212	392	235	212	
	E		(0.85)	227	204	366	233	210	366	240	216	366	167	150	333	200	180	333	200	180	
Sub-total	F	Rs/Ha		675	607	1,091	694	625	1,091	714	643	1,091	466	446	992	595	536	992	595	536	
	E			574	516	927	590	531	927	607	547	927	422	380	843	506	455	843	506	455	
Total (2) + (3)	F	Rs/Ha		25,905	23,312	41,901	24,664	41,901	27,426	24,664	41,901	19,046	17,141	38,092	22,855	20,570	38,092	22,855	20,570		
	E			21,892	19,702	35,472	22,535	20,282	35,472	23,179	20,862	35,472	16,097	14,488	32,193	19,316	17,384	32,193	19,316		
<b>2. Production Cost</b>																					
(1) Seeds <sup>4)</sup>	F	Rs/Ha		869	869	1,250	853	1,250	1,227	1,227	1,250	750	750	1,250	900	900	1,250	900	900		
	E		(0.85)	739	739	1,063	725	1,063	1,043	1,043	1,063	638	638	1,063	765	765	1,063	765	765		
(2) Fertilizer	F	Rs/Ha		4,508	4,508	5,400	2,881	5,400	3,111	3,111	5,400	3,600	3,600	5,410	4,900	4,900	5,410	4,900	4,900		
	E		(1.12)	3,049	3,049	6,048	3,227	6,048	3,484	3,484	6,048	4,032	4,032	6,059	5,376	5,376	6,059	5,376	5,376		
(3) Agro-chemicals	F	Rs/Ha		2,958	2,958	2,958	1,896	1,896	2,294	2,294	2,294	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400		
	E		(0.85)	2,514	2,514	2,514	1,603	1,603	1,950	1,950	1,950	1,190	1,190	1,190	1,190	1,190	1,190	1,190	1,190		
(4) Labour	F	Rs/Ha		6,400	6,400	8,800	8,800	8,800	9,120	9,120	9,120	12,080	12,080	12,080	12,080	12,080	12,080	12,080	12,080		
- Family Labour <sup>5)</sup>	E		(0.85)	5,440	5,440	7,548	7,548	7,548	7,752	7,752	7,752	10,268	10,268	10,268	10,268	10,268	10,268	10,268	10,268		
- Hired Labour	F	Rs/Ha		1,970	1,970	1,970	1,879	1,879	2,081	2,081	2,081	3,680	3,680	3,680	3,680	3,680	3,680	3,680	3,680		
	E		(0.825)	1,637	1,637	1,637	1,551	1,551	1,724	1,724	1,724	3,064	3,064	3,064	3,064	3,064	3,064	3,064	3,064		
(5) Other <sup>6)</sup>	F	Rs/Ha		6,236	6,236	6,236	6,669	6,669	7,925	7,925	7,925	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500		
	E		(0.85)	5,306	5,306	5,306	5,669	5,669	6,736	6,736	6,736	3,825	3,825	3,825	3,825	3,825	3,825	3,825	3,825		
Total (1) + (5)	F	Rs/Ha		23,041	23,041	24,314	23,048	23,048	26,558	26,558	26,558	28,870	28,870	28,870	27,360	27,360	27,360	27,360	27,360		
	E			19,965	19,965	21,288	19,571	22,730	22,189	22,189	24,773	21,517	21,517	21,517	22,988	22,988	22,988	22,988	22,988		
3. Net Value	F	Rs/Ha		8,877	6,064	22,996	11,402	9,205	23,726	6,603	21,060	4,620	2,765	20,860	6,940	4,754	20,860	6,940	4,754		
	E			6,793	4,661	18,637	9,922	7,728	19,303	5,878	17,464	4,426	2,859	17,649	6,090	4,209	17,649	6,090	4,209		

Notes: 1) F and E represent financial and economic prices, respectively.  
 2) P, FW/O and FW represent the present case, the future without project case, and the future with project case, respectively.  
 3) Including home-produced seeds.  
 4) Applying a definition of one man-day for an adult male being equal to 1.0 man-day, and the same for an adult female and a child, respectively, being equal to 0.7 man-day and 0.5 man-day, the contributions to total man-days of work generated by a single household are considered to be 50% by adult males, 30% by adult females and 20% by children.  
 5) Including machinery and draft animals.

App. 2.3-8(2/2) Crop Budgets of Chillies and Reeds at Full Development

Item	Price for Evaluation <sup>1)</sup>	Unit	Unit Price / Conversion Factor	Chillies						Reeds										
				Liyangastota Scheme		Munthauwala Reservoir Scheme		Badgirriya Scheme		Benthara Ganga Right Bank Scheme		Polwatte Ganga Scheme		Tangala Weliyaya Scheme						
				P	PW/O	P	PW/O	P	PW/O	P	PW/O	P	PW/O	P	PW/O					
1. Gross Production Value																				
(1) Yield	F	Kg/Ha		1,000	-	-	-	500	450	1,000	4,000	4,000	-	-	-	-	-	-	-	
(2) Production Value	E	Rs/100Kgs./Rs.-4/Kg	(0.85)	100,000	85,000	100,000	85,000	50,000	45,000	100,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000
Total	F	Rs/Ha		100,000	85,000	100,000	85,000	50,000	45,000	100,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000
E				85,000	74,250	85,000	74,250	42,500	38,250	85,000	13,600	13,600	13,600	13,600	13,600	13,600	13,600	13,600	13,600	13,600
2. Production Cost																				
(1) Seeds/Planting Material <sup>2)</sup>	F	Rs/Ha		1,600	-	-	-	1,600	1,600	1,600	1,000	1,000	1,000	-	-	-	-	-	-	-
E			(0.85)	1,360	-	-	-	1,360	1,360	1,360	850	850	850	-	-	-	-	-	-	-
(2) Fertilizer	F	Rs/Ha		10,800	-	-	-	6,000	6,000	10,800	-	-	-	-	-	-	-	-	-	-
E			(1.12)	12,096	-	-	-	6,720	6,720	12,096	-	-	-	-	-	-	-	-	-	-
(3) Agro-chemicals	F	Rs/Ha		2,500	-	-	-	2,500	2,500	2,500	-	-	-	-	-	-	-	-	-	-
E			(0.85)	2,125	-	-	-	2,125	2,125	2,125	-	-	-	-	-	-	-	-	-	-
(4) Labour	F	Rs/Ha		28,000	-	-	-	28,000	28,000	28,000	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800	4,800
- Family Labour <sup>3)</sup>	E		(0.85)	23,800	-	-	-	23,800	23,800	23,800	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080	4,080
- Hired Labour	F	Rs/100Man-day		13,500	-	-	-	13,500	13,500	13,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
E			(0.425)	5,738	-	-	-	5,738	5,738	5,738	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275	1,275
(5) Other <sup>4)</sup>	F	Rs/Ha		1,800	-	-	-	1,800	1,800	1,800	-	-	-	-	-	-	-	-	-	-
E			(0.85)	1,530	-	-	-	1,530	1,530	1,530	-	-	-	-	-	-	-	-	-	-
Total ((1) - (5))	F	Rs/Ha		58,200	-	-	-	53,400	53,400	58,200	8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800	8,800
E				46,649	-	-	-	41,273	41,273	46,649	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205	6,205
3. Net Value	F	Rs/Ha		69,800	-	-	-	24,600	19,600	69,800	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
E				62,151	-	-	-	25,027	20,777	62,151	11,475	11,475	11,475	11,475	11,475	11,475	11,475	11,475	11,475	11,475

Notes: 1) F and E represent financial and economic prices, respectively.  
2) P, PW/O and FW represent the present case, the future without project case, and the future with project case, respectively.  
3) including home-produced seeds.  
4) Applying a definition of one man-day for an adult male being equal to 1.0 man-day, and the same for an adult female and a child, respectively, being equal to 0.7 man-day and 0.5 man-day, the contributions to total man-days of work generated by a single household are considered to be 50% by adult males, 30% by adult females, and 20% by children.  
5) including nursery cost.

### App. 2.3-9 Annual Net Incremental Benefit

Year	Liyangastota Scheme	Muruthawela Reservoir Scheme	Badagiriya Scheme	Benthara Ganga Right Bank Scheme	Polwatte Ganga Scheme	Thangalu Welyaya Scheme
1	-53,100	-61,476	-6,253	-8,346	-8,162	-6,125
2	-126,144	-136,244	-14,405	-35,164	-33,420	-24,375
3	-144,405	-154,935	-16,442	-41,869	-39,735	-28,938
4	-126,144	-136,244	-14,405	-35,164	-33,420	-24,375
5	-89,622	-98,860	-10,328	-21,755	-20,791	-15,250
6	195,888	190,116	35,896	20,474	12,160	9,341
7	195,888	190,116	35,896	20,474	12,160	9,341
8	195,888	190,116	35,896	20,474	12,160	9,341
9	195,888	190,116	35,896	20,474	12,160	9,341
10	219,050	211,819	38,341	21,588	13,373	10,369
11	219,050	211,819	38,341	21,588	13,373	10,369
12	219,050	211,819	38,341	21,588	13,373	10,369
13	219,050	211,819	38,341	21,588	13,373	10,369
14	219,050	211,819	38,341	21,588	13,373	10,369
15	219,050	211,819	38,341	21,588	13,373	10,369
16	219,050	211,819	38,341	21,588	13,373	10,369
17	219,050	211,819	38,341	21,588	13,373	10,369
18	219,050	211,819	38,341	21,588	13,373	10,369
19	219,050	211,819	38,341	21,588	13,373	10,369
20	219,050	211,819	38,341	21,588	13,373	10,369
21	219,050	211,819	38,341	21,588	13,373	10,369
22	219,050	211,819	38,341	21,588	13,373	10,369
23	219,050	211,819	38,341	21,588	13,373	10,369
24	219,050	211,819	38,341	21,588	13,373	10,369
25	219,050	211,819	38,341	21,588	13,373	10,369

App. 2.3-10 Farm Incomes

Scheme	Average Farm Size (Ha)	Owner Cultivators				Tenant Cultivators				
		Present ①	Future Without Project ②	Incremental Income		Present ①	Future Without Project ②	Future With Project ③	Incremental Income	
				③ - ①	③ - ②				③ - ①	③ - ②
Liyangastota Scheme	1.3	17,249 (17,249)	11,572 (11,572)	48,248 (39,175)	53,925 (44,852)	6,488 (6,488)	1,349 (1,349)	52,277 (43,204)	45,789 (36,716)	50,928 (41,855)
Muruthawela Reservoir Scheme	0.8	12,500 (12,500)	9,262 (9,262)	29,053 (19,245)	32,291 (22,483)	6,826 (6,826)	3,872 (3,872)	34,367 (24,559)	27,541 (17,733)	30,495 (20,687)
Badagiriya Scheme	1.1	15,125 (13,361)	10,377 (9,039)	70,409 (21,893)	75,157 (26,215)	7,407 (5,643)	3,044 (1,706)	76,536 (26,256)	69,129 (20,613)	73,492 (24,550)
Benthara Ganga Right Bank Scheme	0.7	2,285 (2,111)	1,375 (1,201)	17,043 (16,799)	17,953 (17,709)	539 (365)	-285 (-459)	15,850 (15,432)	15,311 (15,067)	16,135 (15,891)
Polwatte Ganga Scheme	0.6	4,188 (4,188)	2,710 (2,710)	14,886 (14,526)	16,364 (16,004)	1,895 (1,895)	532 (532)	15,635 (15,275)	13,740 (13,380)	15,103 (14,743)
Thangalu Welyaya Scheme	1.0	9,214 (9,214)	5,958 (5,958)	30,323 (29,655)	33,579 (32,911)	2,142 (2,142)	-756 (-756)	29,527 (28,859)	27,385 (26,717)	30,283 (29,615)

Note : Figures in parenthesis indicate farm incomes for paddy cultivation.



## **ANNEX-3 ENVIRONMENT**

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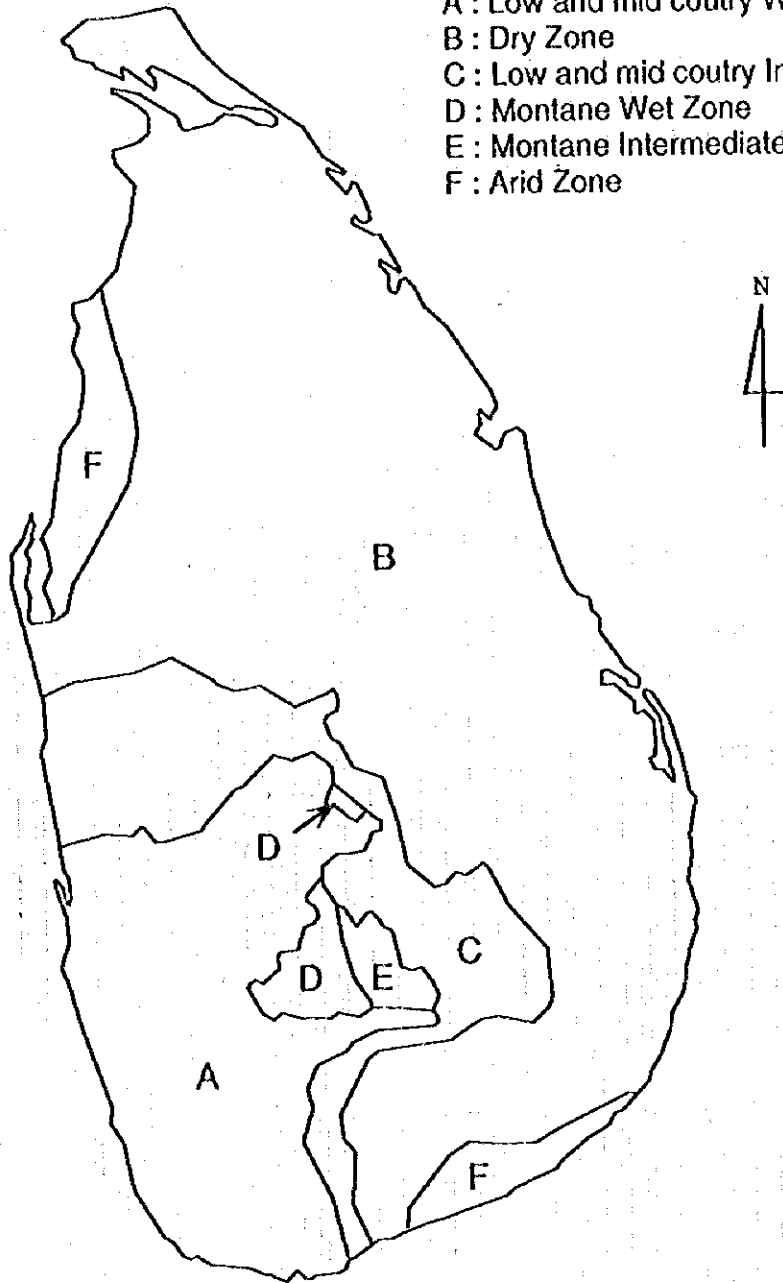
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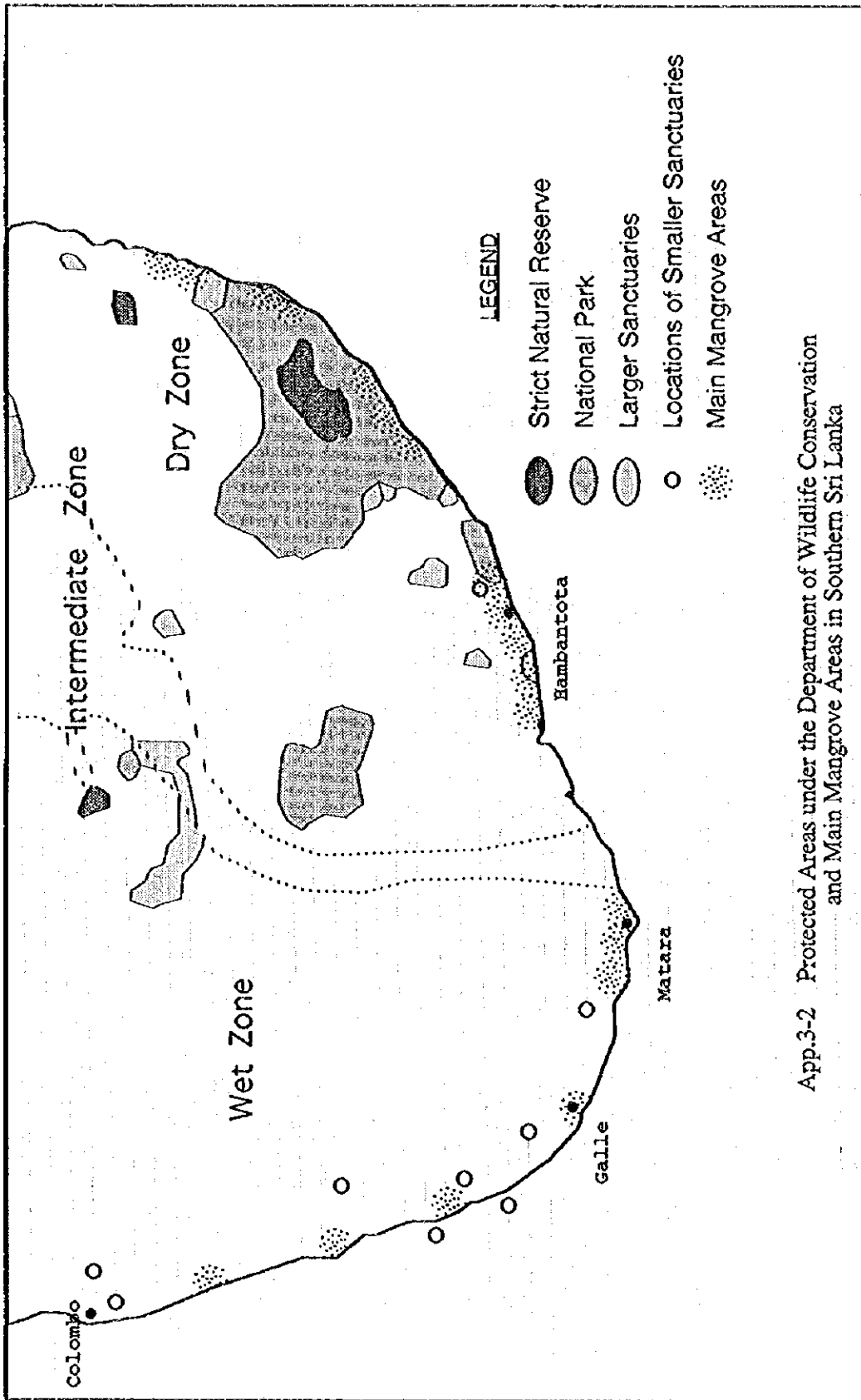
**LEGEND**

- A : Low and mid coutry Wet Zone
- B : Dry Zone
- C : Low and mid coutry Intermediate Zone
- D : Montane Wet Zone
- E : Montane Intermediate Zone
- F : Arid Zone

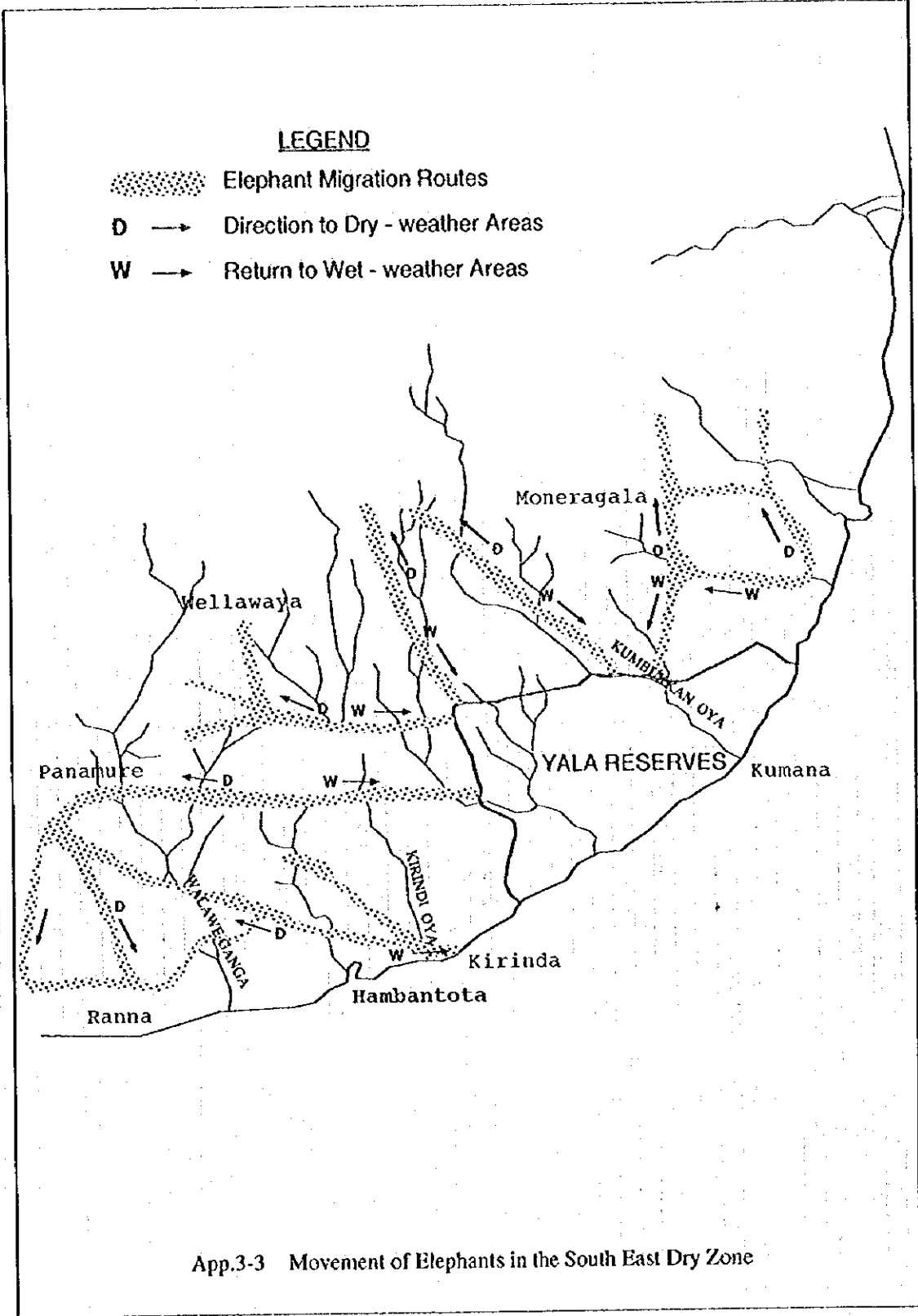


**App.3-1 Bioclimatic Zone of Sri Lanka**

Source: Climate and Natural Vegetation of Sri Lanka, Marga Institue 1984



App.3-2 Protected Areas under the Department of Wildlife Conservation and Main Mangrove Areas in Southern Sri Lanka



App 3-4 Existing Fishery of Each Scheme

Scheme	Tank/Lagoon	Area (Ac.)	Depth (m)	Catch Season	Catch Change in past 10 years	Number of Fisherman	Number of boats		Monthly Production (kg/month)						Monthly Income (Rp./month)												
							No engine	With engine	Fish catch			Prawn			Crab			Fish catch			Prawn			Crab			
									Families	Fresh w.	Brackish w.	Marine	Catch	Fresh w.	Brackish w.	Marine	Catch	Fresh w.	Brackish w.	Marine	Catch	Fresh w.	Brackish w.	Marine	Catch		
Liyangastota*	Ridiyagama Reservoir	1,100	2-5	Through out the Year	decreased	150	45	-	20,250	-	-	-	-	-	607,500	-	-	-	-	-	-	-	-	-	-	-	-
Muruthawela*	Muruthawela Wewa	1,530	16	Through out the Year	decreased	120	16	-	3,308	-	-	-	-	-	43,009	-	-	-	-	-	-	-	-	-	-	-	-
	Udukurwala Wewa	522	3	Through out the Year	decreased	124	20	-	9,189	-	-	-	-	-	119,455	-	-	-	-	-	-	-	-	-	-	-	-
Badagiriya*	Badagiriya Tank	9,050	2-5	Dec. to May	decreased	121	13	-	3,120	-	-	-	-	-	46,800	-	-	-	-	-	-	-	-	-	-	-	-
	Embilika Kalapuwa	92	2-4	Dec. to May	decreased	86	7	-	1,260	-	-	299	175	-	18,900	-	-	8,978	-	-	-	-	-	-	-	-	-
	Malala Lewaya	991	2-5	Dec. to May	decreased	126	32	-	6,400	-	-	1,600	1,500	-	96,000	-	-	48,000	-	-	-	-	-	-	-	-	-
	Koholankala lewaya	531	2-3	Through out the Year	decreased	20	4	-	-	-	-	67	-	-	-	-	-	2,000	-	-	-	-	-	-	-	-	-
	Lunaganweterna	7,438	25	- do -	decreased	280	37	-	21,800	-	-	-	-	-	284,000	-	-	-	-	-	-	-	-	-	-	-	-
Kachigala*	Kalanetiya Kalapuwa	1,400	5	Through out the Year	decreased	40	10	-	267	-	-	133	1,067	-	8,000	-	-	6,000	-	-	-	-	-	-	-	-	-
	Lunama Kalapuwa	47	3	Through out the Year	decreased	30	8	-	400	-	-	92	117	-	12,000	-	-	4,125	-	-	-	-	-	-	-	-	-
Bembura***	Bembura Ganga Estuary	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Deduwa Lake	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polwatte**	Borala Tank	40	5	-	-	4	1	-	75	-	-	-	-	0	3,188	-	-	-	-	-	-	-	-	-	-	0	-
	Garanduwa Kalapuwa	125	2.5	-	-	30	3	-	400	-	-	500	100	150	17,000	-	-	20,000	-	-	-	-	-	-	-	30,000	16,875
	Polwatte Ganga Estuary	-	3	-	No change	25	10	-	500	-	-	600	100	50	21,520	-	-	36,000	-	-	-	-	-	-	-	30,000	5,625
Tangalla*	Rekawa Lagoon	595	2-5	Dec. to May	decreased	285	53	-	-	-	-	3,000	6,000	-	-	-	-	6,000	-	-	-	-	-	-	-	6,000	-

Remarks: \*) Data in 1994 is provided by the Tangalle Fishery Extension Office.

\*\*) Data in 1994 is provided by the Manara Fishery Extension Office.

\*\*\*) Data is from Bantota Estuary Wetland Site Report.

### App.3-5 Results of Questionnaire on Fishery Environment

#### 1. Basic Items

- 1) Your Name?
- 2) Your Occupation?
- 3) Number of your family?
- 4) How long have you lived here?

Answer No.	Fisherman's name	Scheme or Place	Occupation	family member	year
1	Mr.S.H.Upasena	Kalametiya Lagoon	fishermen, labour	4	2 generations
2	Mr.W.G.Peter	Kalametiya Lagoon	fisherman	5	56
3	Mr.A.P.Chandrasena	Koholankala/Bundalla	fisherman	6	over 25
4	Mr.L.Jayasinghe	Badagriya Reservoir	fisherman, labour	6	34
5	Mr.V.Piyasena	Muruthawela Tank	fisherman, labour	5	25

#### 2. Daily Life and Fishing Environment

##### 2-1. Daily Life

- 1) How much is the average daily and monthly income(in Rs) by fishing and by family altogether?
- 2) How many days do you catch fish averagely in a month?
- 3) What is the average total daily fish catch(in kg)?

Answer No.	Monthly fishing income(Rs)	Monthly family income(Rs)	Catch days(d/m)	Daily fish catch(kg)
1	2,000 - 3,000	NA	15	5 to 8
2	NA	NA	20	20
3	3,000	NA	10 - 15	50 - 100
4	NA	1,000 - 5,000	daily	100 - 200
5	1,000 - 2,000	NA	NA	50 - 100

- 4) Please indicate the fish species, each fish catch(in kg), catch areas and catch methods.

Answer No.	Fish species	Fish catch(kg)	Catch area	Method
1	fresh water fish	NA	lagoon, stream, river	NA
	brackish water fish	NA	- do -	NA
	prawn	3 - 4	- do -	NA
2	brackish water fish	small	lagoon	cast net, hand-lone
	coastal fish	20 - 30	coastal, off-shore	dugout-boat, drift net
3	fresh water fish	NA	lagoon	dugout boat, stake net, cast net
	brackish water fish	NA	- do -	- do -
	prawn	NA	- do -	stake net, cast net
	coastal fish	NA	off-shore and deep sea	dugout-boat, drift net, etc.
	lobster	NA	- do -	- do -
4	fresh water fish	NA	tank	dugout-boat, stake net, cast net
5	fresh water fish	NA	tank	cast net, hand line

- 5) How many persons are necessary to catch fish together?  
 6) What time do you catch fish in a day?  
 7) When is the catching season in a year?

Answer No.	Catching persons no.	Catching time	Catching season
1	NA	7 - 11 a.m.	not definite
2	2 men / boat	5 - 10 a.m.	Dec. - May
3	2 - 3	4-10a.m. & 17-22p.m.	Nov. - Mar.
4	NA	in night time	Oct.- Dec.
5	2	in day time	Nov. - Jan.

- 8) What are you engaged in during the off-season of fishing, and then daily income(in Rs)?

Answer No.	Job in off-season	daily income(Rs)
1	manual labour	100
2	NA	NA
3	migrate to catch fish	NA
4	labour	100
5	manual labour	60 -

- 9) How many fishermen and fishery families are there?  
 10) How many boats are there?  
 11) Have catches increased or decreased in the past 5-10 years, and why?

Answer No.	No. of fishermen	No. of fishery families	No. of boat	Fish catch
1	200	30	NIL	decreased
2	over 500	50	5	decreased
3	20	12	3	NA
4	300 - 400	50	50	decreased
5	100	50	6	decreased

- 12) Are you receiving a food stamp?  
 13) Do you wish to continue fishing as you are now in the future?  
 14) What will become subjects or problems as your family continue fishing?

Answer No.	Food stamp reception	Fishing in the future	Subjects or Problems
1	Yes	Yes	decreasing fish
2	Yes	Yes	competition with large nylon net, powerful boats
3	Yes	Yes	boat with engine, nets
4	Yes	Yes	land maintenance, excessive catching of small fish
5	Yes	No	insufficient income (prefer to agriculture)



## 2-2. Fishery Organization

- 1) Are you a member of any fisherman's group or organization?
- 2) Have you ever had any frictions or problems with others, especially farmers?

Answer No.	Participation	Friction	Subjects or Problems
1	No	No	
2	Yes	Yes	against the Fishery society
3	Yes	No	
4	Yes	No	
5	Yes	Yes	against another fishermen

## 2-3. Environmental Change

- 1) Have you noticed anything about improvement of river and canal structures such as anicuts, wiers, banks, etc.?
- 2) Have you noticed anything about water quality and water flow in the river?
- 3) Have you noticed anything about fishes and animals near your house?

Answer No.	About the structures	About river water	About fishes and animals
1	No	too much fresh water	fish and prawn decreased
2	siltation	less fish in the lagoon	visitor kill birds illegally
3	No	NA	NA
4	No	less inflow	the lack of water may affect habitat of animals
5	NA	NA	less and less fishes

- 4) What areas below are necessary to be protected in order to sustain fishing operation?

Answer No.	Areas to be protected
1	lagoon, mangrove swamp, stream and river
2	lagoon, mangrove swamp, estuary, stream and river, bay and coastal shoals, coral reef
3	lagoon, mangrove swamp, estuar, bay and coastal shoals, off-shore and deep sea, coral reef
4	stream and river, reserboir and tank
5	reservoir and tank

## 2-4. Others

- 1) Do you have any awareness that it is important to protect rare or endangered fishes and animals?
- 2) Do you have any awareness that mangrove woods play an important role in sustaining the aquatic ecology?
- 3) Do you have any awareness that river mouths, lagoons and swamps play an important role in sustaining the natural environment?
- 4) Do you have any awareness that coral reefs play an important role in sustaining the marine ecology?

Answer No.	About rare species	About mangroves	About lagoon, etc.	About coral reefs
1	Yes	Yes	Yes	Yes
2	Yes	Yes	Yes	Yes
3	Yes	Yes	Yes	Yes
4	Yes	No	Yes	No
5	Yes	Yes	Yes	Yes

### App.3-6 Results of Questionnaire on Woman's Affairs

#### 1. Basic Items

- 1) Your Name?
- 2) Your Occupation?
- 3) How long have you lived here?
- 4) What is your religion?

Answer No.	Woman's name	Scheme or Place	Occupation	year	Religion
1	Mrs.Guanawathy	Badagiriya	House wife	10	Buddhism
2	Fisher family woman	Kachigara Ara	NA	10 - 20	- do -
3	Mrs.Sumanswathy	Tangalu Welyaya	NA	20	- do -
4	Mrs.Munasinghe	Badagiriya	Poultry farming	37	- do -
5	Mrs.Jashunona, else	Benthara ganga	House wife	50 - 60	- do -
6	Mrs.Leelwathy, else	Polwate ganga	NA	over 20	- do -

#### 2. Daily Life and Farming Environment

- 1) How much is your monthly income and the monthly income by your family?

Answer No.	your income (Rs)	family income (Rs)
1	NA	2,000 - 3,000
2	NA	NA
3	NA	1,500 - 2,500
4	2,500	3,000
5	NA	3,000
6	NA	NA

No.	Income (Rs)	yours	family
1	over 4,000	0	0
2	3,000 - 3,999	0	2
3	2,000 - 2,999	1	2
4	1,000 - 1,999	0	0
5	lower than 1,000	0	0
6	no answer	5	2

- 2) What job do you have and where do you work on it?

Answer No.	Your job
1	No job
2	No job
3	No job
4	Poultry farming at home
5	Making mats, working in rubber lands, upland cultivation
6	No job

3) At present, what monthly income(in Rs) do you consider as necessary to live comfortably?

Income (Rs)	Number
over 7,000	0
6,000 - 6,999	3
5,000 - 5,999	3
less than 5,000	0

4) Please mark the adequate role or duties in a standard day of husband,wife,children and elderly people respectively.

Work	Husband	Wife
1 cultivation	2	1
2 agro-chemicals spraying	1	
3 fertillier application	1	
4 hervesting	1	2
5 home gardening	3	4
6 cooking		5
7 washing		5
8 nursing		1
9 feeding livestock		
10 other household		4
11 shopping	2	1
12 neighbors troubles		
13 marketing crops	3	1
14 expense of daily foods	2	1
15 fetching water, fuel woods		3
16 labour work	2	2
17 self employment		1

Please list up the others all, then write and mark the hardest works as a woman.

work	Number
Fetching water	5
Fetching fuel wood	5
Chopping fuel wood	1
Washing	3
Harvesting Pang seed for mat making	1
Labour work	1
total	16

5) Have you ever had any frictions or problems on water use or land use etc. between you and others?

	Number
1 Yes	0
2 No	6
3 I don't know	0

6) How about your daily time schedule?

Answer No.	Working time
1	from 5 a.m. to 8 p.m.
2	5 a.m. to 8 p.m.
3	5 a.m. to 9 p.m.
4	
5	5 a.m. to 9 p.m.
6	5 a.m. to 9 p.m.

7) At what sort of time can you relax and enjoy yourself?

Answer No.	Working time
1	After meals
2	No time to relax
3	No time to relax
4	No time to relax
5	In between house-work
6	No time to relax

8) Is there any organization or project supporting women?

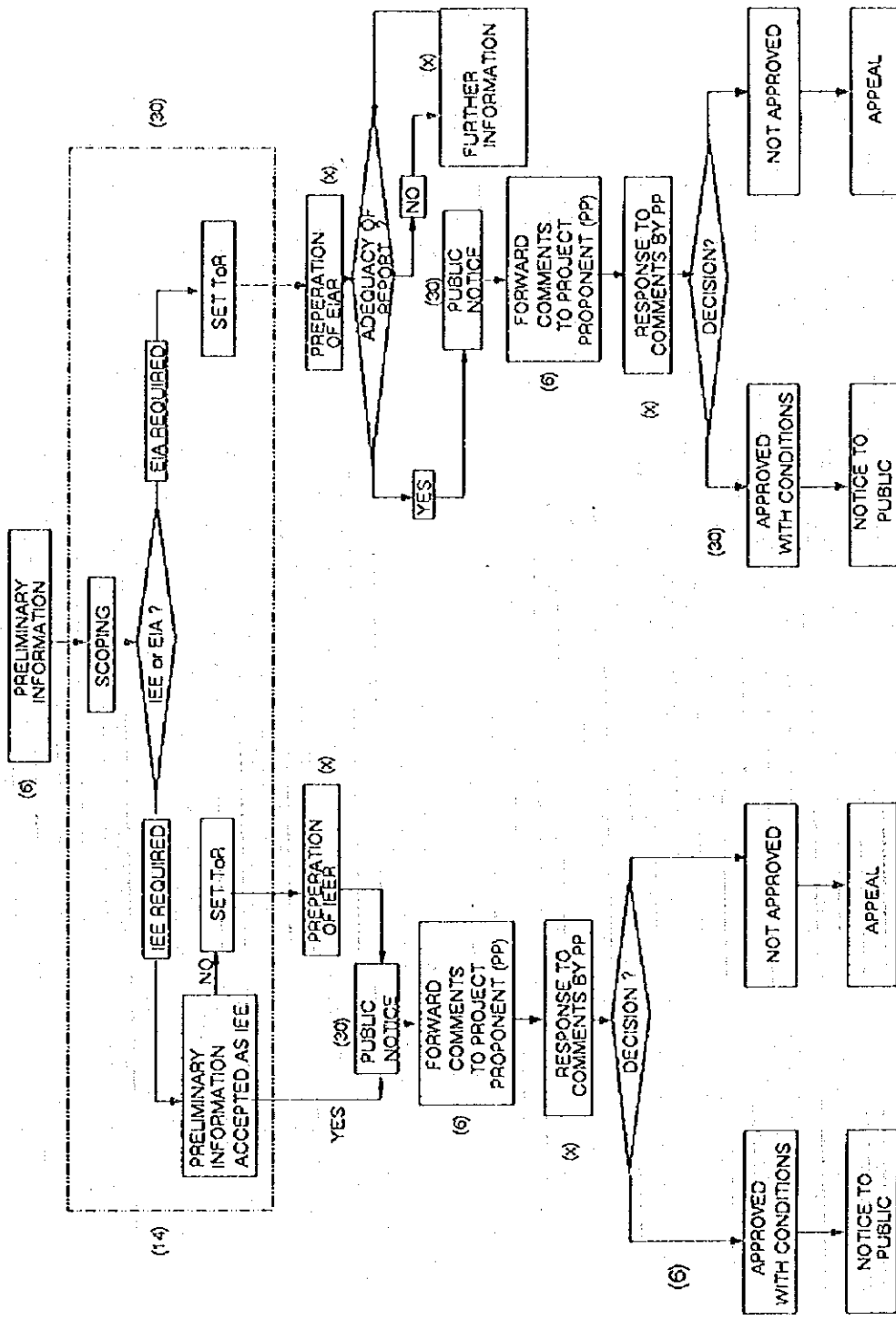
	Number	Remarks
1 Yes	1	Rural Women's Development Organization
2 No	3	
3 I don't know	2	

9) Have you ever participated any vocational training for women

	Number
1 Yes	0
2 No	6
3 I don't know	0

10) Do you play any responsible rolls in farming as one of your family?

	Number	Remarks
1 Yes	4	when in labour works, harvesting and weeding, etc.
2 No	2	
3 I don't know	0	



NOTE : Bracketed figures indicate MAXIMUM number of days

wadow/CEA

App. 3-8 Present Water Supply Scheme

Irrigation Scheme	Water Supply Scheme	Source	Intake	Design Population	Design Demand (m <sup>3</sup> /day)	Present Population	Year of Commissioning
Liyangastota	Ambalantota - Hambantota Ridiyagama	Walawe Ganga Ridiyagama Tank	direct	52,000	5,600	23,000	1982
Muruthawela Reservoir	Walasmulla Weerakeriya	Kirama Oya Udukiriwela Tank	direct	3,640	304	1,446	1978
Badagiriya	-	-	-	-	-	-	1974
Kachigala Ara	Hungama	Kachigala Ara	direct	5,700	364	9,000	1981
Benthara Ganga RB	-	-	-	-	-	-	-
Polwatte Ganga	Weligama	Polwatte Ganga	direct	not known	3,000	-	1995
Thangalu Weliyaya	Thangalle	Kirama Oya and Shallow groundwater boreholes	direct and boreholes	not known	2,800	10,200	1953

App. 3-9 Valuation of Wetlands

	BUNDALA		BENTOTA	
	values	comments	values	comments
Attributes (non-use values; preservation values) Biological Diversity				
Scenic/Landscape Beauty	5	High floral and faunal richness	3	Species lists incomplete; high bio-diversity not expected
Historical or Cultural Value	4	Situated in National Park; pleasant surroundings	2	Common scenery for SW Sri Lanka
Scientific Value	2	Some archaeological sites present	1	No significance reported in wetland
Uniqueness	5	Baseline data established; significance for monitoring high	2	Some importance for mangrove communities
Functions (indirect use value)	5	Endemic, rare or endangered birds, mammals and reptiles present	1	No rare or threatened species recorded; no unique wetland
Water Quantity Regulation	2	Some flood buffer capacity	2	Some flood buffer function
Water Quality Regulation	1	No significance	2	Sedimentation but little impact on downstream area
Habitat for "Fish"	2	Some nursery function, low species diversity	3	High number of fish species recorded; breeding likely
Habitat for Wildlife	5	Large numbers of birds and mammals use the wetland	2	Some wildlife recorded; breeding unknown
Uses (direct use values)				
Plant Production	4	Wood extraction; cattle feed	3	Sedge cultivation; tree products
Animal Production	4	Cattle; fisheries	2	Artisanal fish collection
Mineral Production	5	Salt and shells; potential for garnet sand	1	Not reported
Water Storage or Supply; energy	2	For salt production	1	No significance
Tourism / Recreation	5	On the programme of tour operators; bird watching	3	Some importance or regional level
Research / Education	4	Census work is carried out; visitor's centre planned for	2	Low potential
Waste (Water) Disposal	4	Drainage water inflow	2	Local waste dumping in river
Land Development	2	Some cultivation present	1	One plan forwarded; cancelled on environmental grounds

App. 3-10 Results of Questionnaire on Farming Environment (Type-I)

I. Basic Items

1) Organization name?

2) Farmer's name?

Scheme	Answer No.	FO's name	Farmer's name
Liyangastota Scheme	1	D-3 Wickramanayaka Canal /	S.E.A.P.Amaradasa
	2	Walipatanwila South Keth Ela /	A.Nandasiri
	3	D-7 Walawa Watta /	S.E.P.Punchiinho
	4	Thawaluwila Pennakoongama /	P.Sudusingha
	5	Three Sinha /	J.A.Gamage
	6	Tennakoongama Yaya /	A.M.Jayasooriya
	7	Ihara Jansegama /	D.A.Wijsekara
	8	Wile Yaya Ela /	K.H.Jamis Silva
	9	Pingama /	A.H.William Silva
	10	Dawage Ela Aluth Yaya Kiula /	W.G.Sugathadasa
	11	Hedwinna Samagi /	W.Siriwardana
	12	Kabaldatta yaya North /	G.L.A.Ariyadasa
Muruthawela Reservoir Scheme	1	Vijaya Tract 3 D4 /	V.G.Karunadasa
	2	Samagi D1 Upper /	A.E.Ariyasinghe
	3	Sinhagiri Tract 2 /	K.Dinoris
	4	Samagi /	D.S.Senarath
	5	Muruthawela Tract 2 D1(Lower) /	M.K.Gunapala
	6	Muruthawela Tract 2 D5 /	P.L.Pemadasa
	7	Muruthawela Tract 3 D6 /	W.A.Penadasa Abeyratne
	8	Muruthawela Tract 3 D7 /	A.L.David
Badagiriya Scheme	1	D.C.4 Badagiriya /	K.Ekanayaka
	2	No.3 Bedum Era /	S.J.Munasinghe
	3	Badagiriya No.2 /	G.Wannigama
	4	D.C.1 Badagiriya /	K.M.Shelton
	5	Badagiriya No.1 Bedum Ela /	J.R.D.Siripala
	6	No.2 Bedum Era /	K.L.D.David
	7	No.3 Bedum Era /	S.Andaraweera
Polwatte Ganga Scheme	1	Deripitiya West /	H.Ramyalatha
	2	Munamalpe Muthuhara /	J.Pathirana
	3	Palalla Weligama /	W.H.Kularatna
	4	Meeruppa Borala /	P.Ranawaka
	5	Borala /	S.W.Punyaolasa
	6	Jamburagoola East /	M.K.S.Munaweera



## 2. Daily Life and Farming Environment

### 2-1. General Items

1) Have crop productions increased or decreased over the past 5~10years?

	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 increased	2	2						4
2 increased a little	1	1	3			2		7
3 no change		1	1			3		5
4 decreased a little	8	2	2			1		13
5 decreased	1	2	1					4
6 no answer								0
<b>total</b>	<b>12</b>	<b>8</b>	<b>7</b>			<b>6</b>		<b>33</b>

2) At present, what monthly income(in Rs) do you consider as necessary to live comfortably?

No.	Income (Rs)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	over 10,000	3	2						5
2	8,000 - 9,999						3		3
3	7,000 - 7,999		1						1
4	6,000 - 6,999	3	1	1			1		6
5	5,000 - 5,999	3	1	3					7
6	4,000 - 4,999	1	1	1			1		4
7	3000 - 3,999	2	1	1			1		5
8	less than 3,000		1	1					2
<b>total</b>		<b>12</b>	<b>8</b>	<b>7</b>			<b>6</b>		<b>33</b>

3) What will become subjects or problems as your family and your organization continue farming?

Subject or Problem	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 irrigation	10	8	6			6		30
2 drainage	6		2			5		13
3 expansion of agricultural land	6	4	4			2		16
4 to strengthen of farm machines and instruments	11	6	4			5		26
5 instruction of agricultural technology and farming	10	6	3					21
6 usege of agro-chemicals and pesticide	8	6	4			5		23
7 removal of salinity	7	3	6			5		21
8 elevation of everyday life standards	11	5	6			6		28
9 land use rights	8	4	3			1		16
10 illegal water use	4	7	4			1		16
11 forest clearing and chena in upper basin	3	2	4			3		12
12 improvement of canal structures	12	8	7			6		33
13 improvement of house	11	7	7			6		31
14 other			1					1
<b>total</b>	<b>107</b>	<b>66</b>	<b>61</b>			<b>53</b>		<b>287</b>

4) Please mark the adequate role or duties in a standard day of husband,wife,children and elderly people respectively.

Adult males

	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 cultivation	1	0	7			6		32
2 agro-chemicals spraying	10	0	4			4		26
3 fertilizer application	1	0	5			5		29
4 harvesting	10	0	7			5		30
5 home gardening	1	0	7			6		32
6 cooking	1	0				1		2
7 washing	3	0				3		4
8 nursing	6	3	2			1		14
9 feeding livestock	6	0	1			1		11
10 other household	4	2				5		17
11 shopping	10	7	6			6		29
12 neighbors troubles	8	4	3			5		18
13 marketing crops	10	4	6			5		29
14 expense of daily foods	12	0	7			6		33
15 others								0
N	113	75	55			53		296

Adult females

	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 cultivation	10	6	5			5		26
2 agro-chemicals spraying	3					1		3
3 fertilizer application	2					1		3
4 harvesting	9	7	5			5		26
5 home gardening	1	0	7			3		27
6 cooking	12	0	7			6		33
7 washing	1	0	7			6		32
8 nursing	10	0	5			6		27
9 feeding livestock	3	1	3			4		6
10 other household	7	3	3			4		19
11 shopping	9	5	5			3		22
12 neighbors troubles	3	1	1			2		7
13 marketing crops	3	1				2		6
14 expense of daily foods	5							5
15 others								
N	98	54	46			43		243

Children

	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 cultivation	8	7	5			4		24
2 agro-chemicals spraying	3	2	2					8
3 fertilizer application	4	1	2					7
4 harvesting	9	6	5			4		24
5 home gardening	0	0	6			3		23
6 cooking	5	5	6			3		24
7 washing	5	5	1			3		18
8 nursing	3	2	1			2		8
9 feeding livestock	3	2				1		6
10 other household	4	2				1		6
11 shopping	1	2	4			2		9
12 neighbors troubles								1
13 marketing crops		2	1			1		6
14 expense of daily foods	2							
15 others								
N	57	38	29			23		147

Elderly people

	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 cultivation	4	5	3			3		15
2 agro-chemicals spraying	4	1	1			3		9
3 fertilizer application	1	1	1			1		4
4 harvesting	6	5	3			4		18
5 home gardening	2	1	1			1		5
6 cooking								
7 washing								
8 nursing	3		2			1		6
9 feeding livestock	3		2					6
10 other household	4							4
11 shopping								
12 neighbors troubles								
13 marketing crops						1		2
14 expense of daily foods	1							
15 others								
N	28	13	13			15		69

2-2. Soil

1) Do you suffer from salinity problem on farming?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	7	6	6	/	/	5	/	24
2	No	5	2		/	/	1	/	8
3	I don't know				/	/		/	
	total	12	8	6	/	/	6	/	32

2) How about the water quality of drinking water?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	normal	7	4	6	/	/	5	/	22
2	salty a little	5	3		/	/		/	9
3	salty		1		/	/	1	/	2
4	nasty				/	/		/	
5	other				/	/		/	
6	no answer				/	/		/	
	total	12	8	7	/	/	6	/	33

2-3. Flood

1) Do you suffer from flood damage in your farm? How many times a year, and how deep(in ft.)?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	8	8	7	/	/	5	/	13
2	No	4			/	/	1	/	20
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

\*1) Flood season, flood times and flood depth in case of "Yes"

Scheme	Flood season												Flood times (times/year)	Flood depth (ft.)
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Liy.				2	2					3	4	2	0.1 - 48	3 - 30
Pol.					4	3	2						0.5 - 2	3 - 10

2-4. Farm Input

1) What percentage of the farmers in your organization is using fertilizer?

No.	users ratio (%)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	90 - 100	11	8	5	/	/	6	/	30
2	80 - 89			1	/	/		/	1
3	70 - 79	1			/	/		/	1
4	60 - 69				/	/		/	
5	50 - 59				/	/		/	
6	40 - 49				/	/		/	
7	less than 40				/	/		/	
total		12	8	6	/	/	6	/	32

2) What percentage of the farmers in your organization is using organic matters?

No.	users ratio (%)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	more than 59				/	/		/	
2	50 - 59				/	/	1	/	1
3	40 - 49				/	/		/	
4	30 - 39	1			/	/		/	1
5	20 - 29	2		1	/	/	2	/	5
6	10 - 19				/	/	1	/	1
7	0 - 9	9	8	6	/	/	2	/	25
total		12	8	7	/	/	6	/	33

3) Do you expect much more fertilizer application in the future?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	5	4	2	/	/	3	/	14
2	No	6	3	5	/	/	3	/	17
3	I don't know	1	1		/	/		/	2
total		12	8	7	/	/	6	/	33

4) What percentage of the farmers in your organization is using pesticide and weedicide?

No.	users ratio (%)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	90 - 100	10	7	6	/	/	6	/	29
2	80 - 89				/	/		/	
3	70 - 79	2			/	/		/	2
4	60 - 69				/	/		/	
5	less than 60				/	/		/	
total		12	7	6	/	/	6	/	31

5) Do you expect much more usage of agro-chemicals in the future?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	6	5	3	/	/	3	/	17
2	No	6	2	3	/	/	3	/	14
3	I don't know		1	1	/	/		/	2
total		12	8	7	/	/	6	/	33

2-6. Water Use, Land Use, Settlement

1) Is there any influences on your farming by forest clearing and chena in upper basin?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	2	4	5	/	/	2	/	12
2	No	10	4	2	/	/	4	/	20
3	I don't know				/	/		/	1
total		12	8	7	/	/	6	/	33

2) Are there illegal water uses within your FO's area?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	4	8	6	/	/			18
2	No	8		1	/	/	6		15
3	I don't know				/	/			
	total	12	8	7	/	/	6		33

\*1) Examples of illegal water use in Liyangastota Scheme and Muruthawela Reservoir Scheme is not known in detail, but as examples in Badagiriya Scheme indulged use by farmers.

3) Are there illegal land use within your FO's area?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	2	5	4	/	/	1		12
2	No	10	3	3	/	/	5		21
3	I don't know				/	/			
	total	12	8	7	/	/	6		33

\*1) Examples in Liyangastota Scheme and Badagiriya Scheme isn't known, but in Muruthawela Reservoir Scheme intrusion into other's fields

4) Have you ever had any frictions or problems on water use or land use between your organization and others?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	3	3	1	/	/			7
2	No	9	5	6	/	/	6		26
3	I don't know				/	/			
	total	12	8	7	/	/	6		33

\*1) Examples in Muruthawela Reservoir Scheme are quota of insufficient water supply and illegal land use, in Liyangastota Scheme excessive and indulged water use, and in Badagiriya Scheme quota of water among the FO members

## 2-7. Fishery

1) Please show the number of fishermen and fish farmings facilities near your area,if possible.

-- omitted due to almost no answer --

## 2-8. Wild Life

1) Have you ever suffered any damages from wildlife?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	11	2	6	/	/	4		23
2	No	1	5	1	/	/	2		9
3	I don't know				/	/			1
	total	12	8	7	/	/	6		33

\*1) Creatures which have caused damages in case of "Yes"

Scheme	bore	monkey	snake	bee	ant	rat	elephant	cattle	total
Liy.	2	1	7		1	3		7	21
Mur.	1		1					2	2
Bad.	5	2	3		1	2	4	18	18
Pol.		1				1		2	4
total	8	4	11		2	6	4	9	45

2) Do you hunt, trap or harvest any type of wildlife use in your daily life?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	1	1	1	/	/	6	/	3
2	No	11	7	6	/	/	6	/	30
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

3) Have you ever seen a wild elephant in past 2-3years near your area?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	1	5	6	/	/	6	/	12
2	No	11	3	1	/	/	6	/	21
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

4) Is there "chena" (shifting cultivation) near your area?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	2	2	3	/	/	6	/	7
2	No	10	6	4	/	/	6	/	26
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

2-9. Life Standard

1) How many farm families in your organization are receiving food stamps?

Answer No.	Liy	Mur	Bad	Kch	Ben	Pol	Tha
1	10	35	0	/	/	28	/
2	10	45	0	/	/	125	/
3	0	50	0	/	/	75	/
4	63	38	0	/	/	45	/
5	15	54	0	/	/	20	/
6	25	45	115	/	/	60	/
7	400	36	20	/	/		/
8	10	68		/	/		/
9	--			/	/		/
10	10			/	/		/
11	--			/	/		/
12	0			/	/		/

2) Please estimate how many percentage of families who don't belong to your organization are receiving food stamps?

Answer No.	Liy	Mur	Bad	Kch	Ben	Pol	Tha
1	--	10	20	/	/	60	/
2	60	20	80	/	/	2	/
3	90	15	15	/	/	75	/
4	8	40	95	/	/	15	/
5	50	--	30	/	/	30	/
6	5	80	50	/	/	75	/
7	25	20	80	/	/		/
8	90	--		/	/		/
9	--			/	/		/
10	many			/	/		/
11	--			/	/		/
12	0			/	/		/

3) How many farm families in your organization own wells or are supplied with pipe water?

Answer No.	Liy	Mur	Bad	Kch	Ben	Pol	Tha
1	54	25	47	/	/	560	/
2	260	20	no water	/	/	130	/
3	36	99	500	/	/	327	/
4	102	42	160	/	/	280	/
5	86	3	all	/	/	40	/
6	70	25	196	/	/	80	/
7	60	60	all	/	/		/
8	60	25		/	/		/
9	(10%)			/	/		/
10	40			/	/		/
11	30			/	/		/
12	10			/	/		/

4) How many farm families in your organization live in tile-roofed houses?

Answer No.	Liy	Mur	Bad	Kch	Ben	Pol	Tha
1	32	7	15	/	/	10	/
2	80	15	all			140	
3	10	10	196			90	
4	70	30	160			90	
5	15	10	50			40	
6	60	45	160			75	
7	300	40	131				
8	30	45					
9	29						
10	20						
11	40						
12	40						

5) How many farm families in your organization are having facilitated with electricity?

Answer No.	Liy	Mur	Bad	Kch	Ben	Pol	Tha
1	22	0	5	/	/	10	/
2	30	0	10			155	
3	0	0	175			107	
4	40	0	90			20	
5	0	0	100			35	
6	60	0	100			60	
7	200	0	20				
8	20	0					
9	25						
10	20						
11	10						
12	20						

6) How many buffalos and cattle do your members own totally? \*1)

Answer No.	Liy	Mur	Bad	Kch	Ben	Pol	Tha	
1	100	0	100	70	60	0	/	
2	90	30	50	20	few	0		50
3	20	0	175	75	2500	1000		1250
4	70	40	50	20	2000	1000		750
5	125	100	25	0	4000	3000		?
6	10	0	100	40	50	15		70
7	500	200	445	225	350	150		40
8	400	300	180	150				60
9	?	?						?
10	450	200						?
11	100	0						?
12	20	10						?
total	1885	880	1125	600	8960	5165	1740	
							825	

\*1) Left ; total(buffalo+cattle), right ; buffalo

\*2) ? ; unknown

2-10. Education

1) Are all the children attending school?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	11	7	6	/	/	5	/	29
2	No	1	1	1			1		4
3	I don't know								
total		12	8	7			6		33

2) Are the children of tenant farmers all attending school?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	10	5	4	/	/	5	/	24
2	No	2	2	1			1		5
3	I don't know *1)		1	3					
total		12	8	7			6		33

\*1) Including "No answer" due to no tenant farmers

2-11. Health

1) What kinds of diseases do you worry about in your daily life?

	Disease	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Malaria	6	8	10	/	/	1	/	25
2	Filariasis				/	/	2	/	2
3	Anaemias				/	/		/	
4	Abortions				/	/		/	
5	Normal Deliveries				/	/		/	
6	Injury and Poisoning				/	/		/	
7	Heart disease				/	/		/	
8	Respiratory disease				/	/		/	
9	Pulmonary disease				/	/		/	
10	Nervous disease				/	/		/	
11	Malignant neoplasm				/	/		/	
12	others *1)	18	14	9	/	/	10	/	51
	(Cold & Fever)	15	12	5	/	/	9	/	41
13	no answer				/	/		/	
	total	24	22	19	/	/	13	/	78

\*1) Measles, Mumps, Chicken pox, High blood pressure, Skin disease and Cold and fever, etc.

2-12. Infrastructure

1) What is the source of your drinking water?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	water service system	4		6	/	/		/	10
2	well	10	8	3	/	/	6	/	27
3	other	2			/	/		/	2
	total	16	8	9	/	/	6	/	39

2) What infrastructure and facilities does your organization need in particular?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	road	11	6	6	/	/	6	/	29
2	bridge	10	6	5	/	/	4	/	25
3	FO house	11	7	7	/	/	6	/	31
4	dispensary	10	7	3	/	/	5	/	25
5	school	2	1		/	/	1	/	4
6	electricity	10	8	4	/	/	1	/	23
7	water supply pipeline	11	8	2	/	/	3	/	24
8	well	4	4	3	/	/	2	/	13
9	post-office	6	4	2	/	/	3	/	15
10	cinema	3	4	4	/	/	1	/	12
11	market	5	2	7	/	/	2	/	16
12	washing and bathing place	8	7	5	/	/	5	/	25
13	training center	7	7	3	/	/	3	/	20
14	village temple	1	5		/	/		/	6
15	other	2	5	2	/	/	2	/	11
	total	101	81	53	/	/	44	/	279

2-13. Woman's Affair (Please answer by woman, if possible. Otherwise answer by yourself.)

1) What are the daily works by adult women? Please list up them all and circle the hardest works as woman.

-- reference to Question 2-1.4)

2) Do women earn any other income than by farming? And then what job and how much monthly?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	7			/	/	5	/	12
2	No	5	8	7	/	/	1	/	21
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

\*1) Example are labour work in Liyangastota Scheme and coir work in Polwatte Ganga Scheme



3) At what sort of time can women relax and enjoy yourself? \*1)

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	No such time	2		2	/	/		/	5
2	After all work is over	6	4	4	/	/	2	/	16
3	In the afternoon	4	4	1	/	/	2	/	11
4	No answer				/	/		/	
	total	12	8	7	/	/	6	/	33

\*1) Almost all answers were replied by male famers

4) Is there any organization or project supporting women?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	3		3	/	/	3	/	9
2	No	9	8	4	/	/	3	/	24
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

\*1) Examples are Ministr of Fisheries, Sanasa, Janashakthi Bank in Liyangastota Scheme, Jana Shakthi Bank in Badagiriya Scheme, Sarvodya group, Janasavi, Co-op, Sanasa in Polwatte Scheme

5) Have you (or your wife) ever participated any vocational training for women?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes *1)	2		3	/	/	2	/	7
2	No	10	8	4	/	/	4	/	26
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

\*1) Examples are the training on nutrition, dress making in Liyangastota Scheme, on nutrition in Badagiriya Reservoir Scheme and on nutrition, home gardening in Polwatte Scheme

2-14. others

1) Do you have any awareness that using agro-chemical and fertilizer may contaminate river water?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	9	8	6	/	/	5	/	28
2	No	3		1	/	/	1	/	5
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

2) Do you have any awareness that some irrigation system can have an adverse impact on fishery people downstream?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	6	2	5	/	/	1	/	14
2	No	6	3	2	/	/	3	/	14
3	I don't know		3		/	/	2	/	5
	total	12	8	7	/	/	6	/	33

3) Do you have any awareness that excessive groundwater exploitation, forest clearing and chena can damage to the natural environment?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	10	8	7	/	/	5	/	30
2	No	2			/	/	1	/	3
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

4) Do you have any awareness that protection of swamps and forests is important for conserving the natural environment?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	11	8	7	/	/	5	/	31
2	No	1			/	/	1	/	2
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

5) Do you have any awareness that daily maintenance and management of canal system is necessary after rehabilitation of canal structure?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes	12	8	7	/	/	6	/	33
2	No				/	/		/	
3	I don't know				/	/		/	
	total	12	8	7	/	/	6	/	33

### App. 3-11 Results of Questionnaire on Farming Environment (Type-II)

1. Your Organization Name

	Liy	Mur	Bad	Kch	Ben	Pol	Tha
No of answers	1	1	1	1	11	8	5

2. Number of the Organization members

3. Please answer questions below about your organization.

1) What will become subjects or problems as your family and your organization continue farming?

Subject or Problem	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 irrigation					3	7	5	15
2 drainage					10	5	5	20
3 expansion of agricultural land						1		1
4 to strengthen of farm machines and instruments					1	5	3	9
5 instruction of agricultural technology and farming						2	3	6
6 usege of agro-chemicals and pesticide					9	1	2	12
7 removal of salinity					2	5	4	11
8 elevation of everyday life standards						4	3	7
9 land use rights							1	1
10 illegal water use						1	1	2
11 alteration of land use in the watershed							1	1
12 improvement of agricultural structures						2	3	5
13 other							2	2
total					26	33	32	91

2) Have crop yields increased or decreased over the past 5 to 10 years?

	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1 increased							2	2
2 increased a little					1		1	2
3 no change								
4 decreased a little					4	1		5
5 decreased					5	4	1	10
6 no answer					1			1
total					11	7	5	23

3) At present, what monthly income(in Rs) do you consider as necessary to live comfortably?

No.	Income (Rs)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	over 10,000					2	2		4
2	8,000 - 9,999							1	1
3	7,000 - 7,999						2		2
4	6,000 - 6,999								
5	5,000 - 5,999					7	1	2	10
6	4,000 - 4,999					2		2	4
7	3,000 - 3,999								
8	less than 3,000								
total						11	7	5	23

4) What percentage of the farmers in your organization is using agro-chemicals?

No.	users ratio (%)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	90 - 100					6	5	2	13
2	80 - 89								
3	70 - 79					1	2	2	5
4	60 - 69								
5	50 - 59					1			1
6	40 - 49					2		1	3
7	less than 40								
total						11	7	5	23
average (%)						80	91	75	

5) Do you think that use quantity of agro-chemicals per farmer is increasing in the future

5) Do you think that use quantity of agro-chemicals per farmer is increasing in the future

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes					3	2	2	7
2	No					1	4	1	6
3	I don't know					7	1	2	10
	total					11	7	5	23

6) What percentage of the farmers in your organization is using pesticide or weedicide?

No.	users ratio (%)	Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	90 - 100					5	4		10
2	80 - 89					3	1		5
3	70 - 79					1	2		4
4	60 - 69								
5	50 - 59								
6	40 - 49								
7	less than 40								
	total					11	7	3	21
	average (%)					81	89	83	84

7) Do you think that use quantity of pesticide and weedicide per farmer is increasing in the future?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes					2	2	2	6
2	No					1	4	2	7
3	I don't know					8	1	1	10
	total					11	7	5	23

8) Were there any frictions or problems between your organization and others concerning with water usage, water use rights, or water quality etc.?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes					3	1	2	6
2	No					7	6	3	16
3	I don't know					1			1
	total					11	7	5	23

9) Are there illegal farmers in your area?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Yes					4			4
2	No					2	7	4	13
3	I don't know					5			6
	total					11	7	5	23

10) Which infrastructure and facilities does your organization need in particular?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	road					7	7	5	19
2	bridge					4	6	2	12
3	house					6	2		8
4	hospital					2			3
5	school					5	1		5
6	electricity					4			4
7	water supply pipeline					2	3	4	9
8	well					5	2	1	8
9	post-office					3	1		4
10	amusement facility					1	3		4
11	market					1	2	1	4
12	washing and bathing place					2	2	2	6
13	others					1	2	1	4
	total					43	31	16	90

11) If you know, please write the number of fishery families in the area below.

-- Omitted --

12) What kinds of diseases do you worry about in your daily life?

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	Malaria						1	2	3
2	Filariasis								
3	Anaemias						2		2
4	Abortions								
5	Normal Deliveries					3			3
6	Injury and Poisoning					3	1		4
7	Heart disease							1	1
8	Respiratory disease								
9	Pulmonary disease								
10	Nervous disease							1	1
11	Malignant neoplasm								
12	others								
13	no answer					6	3	2	11
	total					12	7	6	25

13) Please indicate the principal role or duties in a standard day of adult males, adult females, children and elderly people respectively.

Adult males

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	cultivation					10	5	5	20
2	harvesting					3	2	1	6
3	home gardening					2	4	1	7
4	cooking								
5	pesticide spraying					1	2	3	6
6	washing								
7	nursing								
8	feeding livestock						1	1	2
9	other household					1	1	1	3
10	shopping					3	1	3	7
11	negotiation with neighbors					1		2	3
12	payment and accounting					5		3	8
13	others					1		3	4
	total					27	16	23	66

Adult females

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	cultivation					4	1		5
2	harvesting					8	5	4	17
3	home gardening					2	2	4	14
4	cooking					8	5	5	18
5	pesticide spraying					1			1
6	washing					8	1	4	13
7	nursing					3		2	5
8	feeding livestock					3		1	4
9	other household					3	3	3	9
10	shopping					3	3	1	7
11	negotiation with neighbors					1		1	3
12	payment and accounting					3			3
13	others							1	1
	total					53	21	26	100

Children

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	cultivation					1			1
2	hervesting								
3	home gardening					2	2	1	5
4	cooking								
5	pesticide spraying								
6	washing								
7	nursing					1			1
8	feeding livestock							3	3
9	other household					2		1	3
10	shopping						1		1
11	negotiation with neighbors								
12	payment and accounting								
13	others					1	4		5
	total					7	7	5	19

Elderly people

		Liy	Mur	Bad	Kch	Ben	Pol	Tha	total
1	cultivation					1		1	2
2	hervesting							1	1
3	home gardening					1		1	2
4	cooking					2		1	3
5	pesticide spraying								
6	washing								
7	nursing								
8	feeding livestock					1		1	2
9	other household						2	1	3
10	shopping					1			1
11	negotiation with neighbors							3	3
12	payment and accounting								
13	others					1			1
	total					8	2	9	19

App-3-12 Southern Region Land Use

Urban Land	Land Use Category	Wet-zone				Dry-zone		Southern Region total
		Kalutara District (ha)	Galle District (ha)	Matara District (ha)	total (ha)	Hambantota District (ha)	(%)	
Agricultural Land	Build-up Land	1,360	580	610	2,551	180	2,731	0.4
	Associated Non-agricultural Land	10	160	10	180	2,250	2,430	0.3
	Homesteads	35,230	46,500	39,120	120,900	38,290	159,190	22.2
	Tree and Other Perennial Crops	3,380	16,000	20,130	39,522	70	39,592	5.5
	Rubber	51,210	16,000	6,230	73,482	0	73,482	10.3
	Coconut	2,170	2,370	5,210	9,753	8,850	18,603	2.6
	Cinnamon	250	6,280	2,600	9,134	0	9,134	1.3
	Mixed Tree and Other Perennial Crops	2,840	1,210	3,640	7,693	1,660	9,353	1.3
	Oilpalm	0	1,050	40	1,071	0	1,071	0.1
	Paddy	27,870	28,070	16,890	72,864	32,010	104,874	14.6
Forest Land	Cropland	14,840	16,320	9,690	40,869	69,330	110,199	15.4
	Natural Forest	60	70	80	210	1,040	1,250	0.2
	Forest Plantations	14,430	20,790	14,250	49,492	23,600	73,092	10.2
	Open Forest	1,410	2,070	2,990	6,472	25,290	31,762	4.4
Rangeland	Dense Forest	770	740	1,430	2,941	2,050	4,991	0.7
	Scrubland	650	960	3,070	4,681	39,970	44,651	6.2
	Grassland	80	910	200	1,191	1,950	3,141	0.4
Wetland	Forested	220	470	20	710	270	980	0.1
	Non-Forested	460	490	480	1,431	930	2,361	0.3
Water	Marsh	2,210	3,550	1,310	7,074	11,270	18,344	2.6
	Barren Land	310	590	250	1,151	3,540	4,691	0.7
	Total Area	159,760	165,160	128,250	453,370	262,550	715,920	100.0

References: Colombo and Kalutara District Land Use Map 1981-1984. The Survey Department

Galle / Matara District Land Use Map 1983. The Survey Department

Hambantota District Land Use Map 1983. The Survey Department

App-3-13 Land Use of the A.G.A. Divisions belonging to Watershed of Each Scheme

Urban Land	Land Use Category	Liyangastota Scheme		Munithawela Scheme		Badaginya Scheme		Kachigala Am Scheme		Bentham Ganga Right Bank Scheme		Polwatte Ganga Scheme		Thungale Welyaya Scheme	
		(ha)	(%)	(ha)	(%)	(ha)	(%)	(ha)	(%)	(ha)	(%)	(ha)	(%)	(ha)	(%)
Agricultural Land	Build-up Land	80	0.1	100	0.1	10	0.0	70	0.2	240	0.3	60	0.3	60	0.2
	Associated Non-agricultural Land	0	0.0	0	0.0	2,060	4.2	0	0.0	0	0.0	10	0.0	0	0.0
	Homesteads	15,180	18.9	33,480	40.0	2,860	5.8	3,810	9.4	16,220	21.0	7,730	35.2	10,980	35.9
	Tree and Other Perennial Crops	1,430	1.8	160	0.2	0	0.0	0	0.0	2,280	3.0	3,790	17.2	90	0.3
	Tea	0	0.0	30	0.0	0	0.0	0	0.0	20,520	26.6	1,510	6.9	30	0.1
	Rubber	870	1.1	8,700	10.4	160	0.3	730	1.8	1,050	1.4	1,030	4.7	6,150	20.1
	Coconut	0	0.0	80	0.1	0	0.0	0	0.0	870	1.1	470	2.1	80	0.3
	Cinnamon	0	0.0	0	0.0	0	0.0	0	0.0	870	1.1	470	2.1	80	0.3
	Mixed Tree and Other Perennial Crops	700	0.9	1,490	1.8	0	0.0	610	1.5	1,920	2.5	200	0.9	1,110	3.6
	Oilpalm	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	70	0.3
Forest Land	Cropland	14,320	17.8	15,380	18.4	4,940	10.1	14,470	35.6	17,390	22.5	2,970	13.5	4,760	15.5
	Sparsely Used Cropland	34,170	42.5	17,620	21.0	21,620	44.2	12,340	30.3	6,120	7.9	1,650	7.5	5,030	16.4
	Other Cropland	870	1.1	520	0.6	0	0.0	630	1.5	10	0.0	30	0.1	350	1.1
	Dense Forest	2,180	2.7	520	0.6	110	0.2	180	0.4	7,030	9.1	1,190	5.4	0	0.0
	Open Forest	610	0.8	30	0.0	350	0.7	0	0.0	1,130	1.5	390	1.8	30	0.1
	Forest Plantations	540	0.7	1,000	1.2	770	1.6	490	1.2	220	0.3	290	1.3	0	0.0
	Scrubland	3,900	4.9	1,770	2.1	12,480	25.5	3,830	9.4	270	0.4	270	1.2	320	1.0
	Grassland	400	0.5	220	0.3	210	0.4	390	1.0	70	0.1	0	0.0	90	0.3
	Forested	50	0.1	200	0.2	0	0.0	50	0.1	160	0.2	20	0.1	200	0.7
	Non-Forested	280	0.3	40	0.0	130	0.3	320	0.8	520	0.7	10	0.0	0	0.0
Wetland	Water	4,300	5.4	2,260	2.7	2,180	4.5	2,400	5.9	950	1.2	220	1.0	1,180	3.9
	Barren Land	460	0.6	160	0.2	1,040	2.1	360	0.9	160	0.2	70	0.3	160	0.5
	Total Area	80,340	100.0	83,760	100.0	48,920	100.0	40,880	100.0	77,130	100.0	21,980	100.0	30,620	100.0
A.G.A. Divisions belonging to Watersheds		Hambantota Dist., Ambalanota		Hambantota Dist., Hambantota		Hambantota Dist., Hambantota		Hambantota Dist., Ambalanota Angunakola-pelessa		Kalutara Dist., Kalutara, Tocumuna South, Pisedumbokorale West - do - South		Matara Dist., Welligam Korale West		Hambantota Dist., Tangalla, Beliatta	
		Rampapura Dist., Kolonna		Matara Dist., Kanda Boda, Patuwa East		Hambantota Dist., Beliatta, Weerakeetiya, Karuwana, Tangalla, Angunakola-pelessa		Galle Dist., Benetota Walialla-wiri, Korale West - do - East - do - South		Galle Dist., Talpe, Patuwa North		Matara Dist., Kanda Boda, Patuwa East			

Reference: Colombo and Lalutara District Land Use Map 1981-1984, The Survey Department  
 Galle / Matara District Land Use Map 1983, The Survey Department  
 Hambantota District Land Use Map 1983, The Survey Department  
 Rampapura District Land Use Map 1981-1984, The Survey Department



**App. 3-14 Soil Losses from Cultivated Land**

	tons/hectare/year
<b>(a) Mid-country Wet Zone (Peradeniya)</b>	
Soil type: Red Brown Latasol.	
Old seedling tea (no conservation)	40.00
Well managed tea (contour drains)	00.24
Kandyan mixed home gardens	00.05
<b>(b) Up-country Wet Zone (Talawakelle)</b>	
Soil type: Red Yellow Podsol	
Bare, Clean weeded clonal tea	52.60
One-year old clonal tea with much	00.07
<b>(c) Mid-country Intermediate Zone (Hanguranketa)</b>	
Soil type: Immature Brown Loam	70.00
Tobacco (No conservation)	38.00
Capsicum (No conservation)	18.00
Carrots (No conservation)	
<b>(d) Low-country Dry Zone (Maha Illuppallama)</b>	
Soil type: Reddish Brown Earths	
Sorghum/Pigeon Pea	21.30
Sorghum/Pigeon Pea (with mulch)	03.90
Cotton	22.20
Cotton with mulch	02.00
<b>iii. Field estimates of soil under chena in mid-country</b>	
Tobacco in 45 percent slope	200.00
Newly cleared chena plot on 45 percent slope at Panamure (Ratnapura District)	
Mean Annual rate of soil loss over a period of 40 years	100.00

Source: Soil Conservation Division, Department of Agriculture - Stocking (1986)