mentioned above. A list of necessary projects and programs is shown in Table 5.6-2 by each district.

### 5.6.3 Farm Land Conservation Plan

# (1) Land to be Treated in the Up-country Area

The land to be treated is defined the area classified by the following three classes in accordance with the Indicative Land Use Map prepared by the Land Use Policy and Planning Division (LUPPD).

- Class-2: areas where are now intensively used and careful soil conservation management s needed with slope of 30-60 %,

- Class-3: areas which are now intensively used, but these should not

normally be used with slope of more than 60 %, and

- Class-8: areas where are now under-utilized, but these are unsuitable for smallholder settlement and most parts suitable for forestry plantations or tree crops under supervised estate conditions with slope of 30-60 %.

According to the Indicative Land Use Map, the area being categorized by Class-2 is 161,300 ha or 8 % of the total Study area, and it is distributed largely in Kandy and Kegalla districts. The area of Class-3 is 79,700 ha or 4 % of the total Study area, and it is distributed mostly in Ratnapura and Kandy districts. While, the area of Class-8 is 82,500 ha or 4 % of the total Study area, and it is distributed mostly in Kandy and Badulla districts. Totally, almost 323,500 ha of the land (about 17 % of the Up-country area) are to be treated with appropriate land conservation measures in the Study area as shown below.

	Lands to be	Treated in the	Up-country A	rea (ha)
District	Class-2	Class-3	Class-8	Total
A. Matale	16,500	3,300	10,200	30,000
B. Kandy	34,500	15,200	16,800	66,500
C. Nuwara Eliya	23,000	5,200	5,100	33,300
D. Badulla	23,300	11,000	22,500	56,800
E. Moneragala	12,300	8,000	9,300	29,600
F. Kegalia	29,400	7,700	7,500	44,600
G. Ratnapura	22,300	29,300	11,100	62,700
Up-country.Total	161,300	79,700	82,500	323,500
011.31	TICLA CL. 1 C		. T 11 .1	Y 1 Y Y

source: Calculated by JICA Study Team based on the Indicative Land Use Map

### (2) Actual Target of the Project

As mentioned above, the total 323,500 ha of land are to be treated with appropriate land conservation measures in the Up-country area. However, this figure includes plantation estates to be excluded in this Project, and it contains fragmentary scattered lands to be treated being not likely to suitable for formulation of proper schemes. Therefore, the actual land area to be treated in the Up-country is determined by formulation of farm land conservation schemes as extent as possible excluding the plantation estates.

By overlaying mesh data of the current land use conditions on the Indicative Land Use Map, 110 farm land conservation schemes are identified in the Up-country area. Its total area is about 123,000 ha, and covers 38% of the total area to be treated which is shown by the Indicative Land Use Map. Thus, the actual land area to be treated is 123,600 ha in the Up-country as shown below. A list and location of the identified schemes is shown in Table 5.6-3 (1)-(3) and Fig. 5.6-2 (1)-(7).

District No	. of Schemes	Covered Area(ha)
A. Matale	19	21,000
B. Kandy	23	32,200
C. Nuwara Eliya	12	10,300
D. Badulla	19	22,900
E. Moneragala	8	9,700
F. Kegalla	7	5,200
G. Ratnapura	22	22,300
<b>Up-country Total</b>	110	123,600
	110	

source: JICA Study Team

# (3) Priority Divisions of Farm Land Conservation

Based on the Indicative Land Use Map, the acreage of Class-2, Class-3 and Class-8 is calculated by each administrative division for preliminary selection of the priority areas, and its result is shown in Table 5.6-4 (1)-(2). Divisions which have the widest area to be treated are Uda Dumbara (Kandy D.), Haldummulla (Badulla D.) and Ratnapura (Ratnapura D.) as shown below. Since the divisions listed below could include the priority areas to be treated, this result should be considered for determination of the Case Study Area of the Project.

Name of Division	Area to be Treated(ha)
Uda Dumbara (Kandy D.)	14,200
Haldummulla (Badulla D.)	10,200
Ratnapura (Ratnapura D.)	10,100
Deraniyagala (Kegalla D.)	9,900
Meda Dumbara (Kandy D.)	9,800
Laggala (Matale D.)	8,700
Yatiyantota (Kegalla D.)	8,600
Madulla (Moneragala D.)	8,500
Kalawana (Ratnapura D.)	8,200
Imbulpe (Ratnapura D.)	8,100
Total	96,300
	Uda Dumbara (Kandy D.) Haldummulla (Badulla D.) Ratnapura (Ratnapura D.) Deraniyagala (Kegalla D.) Meda Dumbara (Kandy D.) Laggala (Matale D.) Yatiyantota (Kegalla D.) Madulla (Moneragala D.) Kalawana (Ratnapura D.) Imbulpe (Ratnapura D.) Total

source: JICA Study Team

### (4) The Master Plan of Farm Land Conservation

The final goal of farm land conservation is to attain sustainable development conditions on farm lands in the Up-country area by completion of a land conservation treatment on the areas being seriously degraded. Although 110 farm land conservation schemes covering 123,600 ha of land to be treated are identified, it would be too much ambitious to set this whole figure as a target of the 10-years Master Plan (1994-2003). Therefore, the Master Plan is formulated by the schemes which are located in the priority divisions (25 divisions) having the area to be treated more than 5,000 ha. In the 25 priority divisions, 52 farm land conservation schemes are identified and these schemes

cover 69,000 ha of lands to be treated as summarized below. The list of farm land conservation schemes to be implemented during the Master Plan period is shown in Table 5.6-5.

District	Name of Division	Covered Area(ha)
A. Matale	4	8,300
B. Kandy	13	24,200
C. Nuwara Eliy	/a 12	10,300
D. Badulla	9	10,900
E. Moneragala	4	5,100
F. Kegalla	3	2,200
G. Ratnapura	7	8,000
Up-country To	tal 52	69,000

source: JIČA Study Team

The total investment costs for implementation of these 52 schemes are estimated about Rs. 4,652 million indicatively based on the collected data related to unit price of farm land conservation.

## (5) Executive Agency of the Master Plan

The executive agency of the Master Plan is the National Agricultural Diversification and Settlement Authority (NADSA) in the Ministry of Agriculture Development and Research (M/AD&R). The NADSA is established in 1978 under the State Agriculture Corporations Act No.11 of 1972, and its functions are as follows;

- i) Formulation of plans for agricultural diversification, settlement development and integrated watershed management, and coordination and execution of such plans by the Corporation or through government or non-government agencies in such areas that may be specified by the Minister from time to time,
- ii) Management of all lands vested in, or transferred to the Corporation with a view to ensuring optimum productivity, environment protection, land and water resource conservation, and settlement development,
- iii) Processing and marketing of agricultural produce.
- iv) Establishment, maintenance and operation of plant, equipment and machinery for agricultural diversification and settlement development, and
- Carrying out of all such measures, as are deemed necessary in the execution of agricultural diversification, settlement development and watershed management in the areas specified in paragraph i).

The NADSA has its own administrative and technical offices, and has dealt with about 3,200 ha of forest lands and 2,800 ha of farm lands including about 7,000 households in Kandy and Kegalla districts so far. At present, the NADSA plans to cope with about 20,000 ha of lands including about 47,000 households in whole districts of the Project area. Thus, it is considered that the NADSA has the enough capability for implementation of the Master Plan as the responsible executive agency.

# TABLES

Table 5.2-1 POTENTIAL LAND FOR DEVELOPMENT

		Central		1	Uva	Sabala	Sabalagamnwa	Total
	Matale	Kandy	Nuwara	Badulla	Monaragala	Kegalla	Ratnapura	(km2)
Class 4								
Sparcely Used Cropland		0	0	115	668	0	160	1.386
Open Forest	4	0	<u>ო</u>	112	206	0	9	200
Scrubland	118	0	2	51	134	0	17	322
Grassland	6	0	0	2	32	0	7	45
Sub-Total	353	0	5	280	1,271	0	185	2,094
Class 5								
Sparcely Used Cropland	27	80	3	10	40	S	76	168
Open Forest	m	S	4	4	55	0	'n	92
Scrubland	4	4	4	B	29	0	4	2 4
Grassland		0	-	0	15	0	•	18
Sub-total	35	14	14	17	139	5	98	310
Total	388	14	19	297	1,410	5	271	2,404

# Table 5.2-2

# MONTHLY RUNOFF AND SPECIFIC DISCHARGE

River Basin	Kalu Ganaga			Station	Ellagawa 030	)S	I	rainage Are	a	1,393 1	m2			
Description	<del>.</del>	Jan .	Feb :	Mer	Apr	May	auL	Jul	Aug	Sep	Oct	Nov	Dec	Total
Precipitation	10,00	148	178	334	334	484	454	301	322	309	488	347	210	390
Run-off	m3/sec	51.90	41.20	50.60	102.80	175.90	184,70	134.70	106.50	136.30	179.20	176.00	101.90	450
0 10 TO 4	mm av a	100	72	97	191	338	344	259	205	254	345	327	196	272
Specific Discharge Runoff Ratio	m3/s/km2 %	0.037 67.57%	0.030 40.45%	0.036 29.04%	0.074 57.19%	0.126 69.83%	0.133 75.77%	0.097 86.05%	0.076 63.66%	0.098 82.20%	0.129 70.70%	0,126 94,24%	0.073 93.33%	69.79%
		· · · · · ·												
River Basia	Kirindi Oya			Station	Wellawaya 2	203		rainage Are	a	160 k				
Description		Jan	Feb	Mar	Apr	Мву	Jun	Jul	Λυg	Sep	Oct	Nov	Dec	Total
Precipitation	mm	126	112	227	310	158	81	58	49	66	234	329	230	1980
Run-off	m3/sec	4.93	4.23	4.22	7.23	5.54	2.43	2.12	1.71	2.39	4.95	9.20	736	
	eum.	83	64	71	117	93	39	35	29	39	83	149	123	921
Specific Discharge	m3/s/km2	0.031	0.026	0.026	0.045	0.035	0.015	0.013	0.011	0.015	0.031	0.058	0.016	
Runoff Ratio	46	65.87%	57.14%	31.28%	37.74%	58.86%	48.15%	60.34%	59.18%	59.09%	35.47%	45.29%	53.48%	46.72%
River Basin	Menik Ganga	1		itation	Kataragama 2	601		rainage Are	a .	787 k	m2			
Description		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Precipitation	mon	165	42	174	133	52	38	13	50	75	366	259	193	1560
Run-off	m3/sec	8.28	4.03	4.65	11.39	6.60	1.22	1.33	0.82	1.56	9.17	20.91	16.61	
	enta	28	12	16	38	22	4	. 5	3	5	31	69	57	290
Specific Discharge	m3/s/km2	0.011	0.005	0.006	0.014	800.0	0.002	0.002	0.001	0.002	0.012	0.027	0.021	
Runoff Ratio	%	16.97%	28.57%	9.20%	28.57%	42.31%	10.53%	38.46%	6.00%	6.67%	8.47%	26.64%	29.53%	18.59%
										··········				
River Basin	Kumbukkan				Nakkala 3102			rainage Are		216 k		ot reliable!		
Description	<del></del>	Jan	Feb	Mar	Apr	May	Jun 27	Jul	Aug	Sep	Oct	Nov	Dec	Total
Precipitation	mm	194	101	109	83	70	27	52	28	85	179	132	220	1280
Run-off	m3/sec	8.58	6.27	5.54	6.13	5.28	3.30	3.23	2.38	2.90	4.82	7.79	9,77	65.99
P 10 . D	mm	106	70	69	74	65	40	40	30	35	60	93	121	803
Specific Discharge	m3/s/km2	0.040	0.029	0.026	0.028	0.024	0.015	0.015	0.011	0.013	0.022	0.036	0.045	40.00.00
Runoff Ratio	<b>%</b>	54.64%	69.31%	63.30%	89.16%	92.86%	148.15%	76.92%	107.14%	41.18%	33.52%	70.45%	55.00%	62.73%
River Basin	Wila Oya		5	itation	Wedagama 35	i01	D	rainage Are	a .	404 k	m2			
Description		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Precipitation	mm	139	118	179	84	125	48	65	62	112	270	177	222	1601
Run-off	m3/sec	13.64	4.69	2.6	2.86	1.13	0.19	0.05	0	0	0.26	. 4.1	8.4	
	eten	90	28	17	18	7	1	0	0	Ó	2	26	. 56	245
Specific Discharge	m3/s/km2	0.034	0.012	0.006	0.007	0.003	0.000	0.000	0.000	0.000	0.001	0.010	0.021	
Runoff Ratio	96	64.75%	23.73%	9.50%	21.43%	5.60%	2.08%	0.00%	0.00%	0.00%	0.74%	14.69%	25.23%	15.30%
	**				·									
River Basin	Heda Oya				Siyambalandu			rainage Area		295 k		***	n.	70 . 1
Description	· · · · · · · · · · · · · · · · · · ·	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Precipitation	mm 21	179	152	230	108	161	62	84	80	144	347	227	286	2060
Run-off	m3/sec	17.96	10.17	4.77	9.24	2.63	0.58	0.52	0.3	0.29	1.78	9.2	16.7	
	mm	163	83	43	81	. 24	. 5	5	3	. 3	16	81	152	659
Specific Discharge	m3/s/km2	0.061	0.034	0.016	0.031	0.009	0.002	0.002	0.001	0.001	0.006	0.031	0.057	** **
Runoff Ratio	%	91.06%	54.61%	18.70%	75.00%	14.91%	8.06%	5.95%	3.75%	2.08%	4.61%	35.6%%	53.15%	31.99%
River Basin	Gal Oya			tation	Inginiyegala 4	401	: D	reinage Ares		995 ka	m2			
River Basin Description	Gal Oya	Jan	Ş Feb	itation	Inginiyagala 4 Apr	1401 May	D Jun	reinage Ares Jul		995 ki	m2 Oct	Nov	Dec	Total
Description	Gal Oya	Jan 321							Aug 34			Nov 198	Dec 472	Total 2200
Description			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct			
Description Precipitation	mm	321	Feb 172	Mar 114	Apr 169	May 103	յսո 53	Jul 98	Aug 34	Sер 172	Oct 294	198	472	
Description Precipitation	mm m3/sec	321 51.2	Feb 172 77.4	Mar 114 38.3	Apr 169 36.8	May 103 18.8	Jun 53 7.7	Jul 98 6.3	Aug 34 7	Sep 172 5.8	Oct 294 26.8	198 56.4	472 76.9	2200
Description Precipitation Run-off	mm m3/sec	321 51.2 138	Feb 172 77.4 188	Mar 114 38.3 103	Apr 169 36.8 96	May 103 18.8 51	Jun 53 7.7 20	Jul 98 6.3 17	Aug 34 7 19	Sep 172 5.8 15	Oct 294 26.8 72	198 56.4 147	472 76.9 207	2200
Description Precipitation Run-off Specific Discharge Runoff Ratio	mm m3/sec mm m3/s/km2	321 51.2 138 0.051	Feb 172 77.4 188 0.078 109.30%	Mar 114 38.3 103 0.038 90.35%	Apr 169 36.8 96 0.037 56.80%	May 103 18.8 51 0.019 49.51%	Jun 53 7.7 20 0.008 37.74%	Jul 98 6.3 17 0.006 17.35%	Aug 34 7 19 0.007 55.88%	Scp 172 5.8 15 0.006 8.72%	Oct 294 26.8 72 0.027 24.49%	198 56.4 147 0.057	472 76.9 207 0.077	2200 1073
Description Precipitation Run-off Specific Discharge Runoff Ratio	mm m3/sec mm m3/s/km2	321 51.2 138 0.051 42.99%	Feb 172 77.4 188 0.078 109.30%	Mar 114 38.3 103 0.038 90.35%	Apr 169 36.8 96 0.037 56.80%	May 103 18.8 51 0.019 49.51%	Jun 53 7.7 20 0.008 37.74%	Jul 98 6.3 17 0.006 17.35%	Aug 34 7 19 0.007 55.88%	5cp 172 5.8 15 0.006 8.72%	Oct 294 26.8 72 0.027 24.49%	198 56.4 147 0.057 74.24%	472 76.9 207 0.077 43.86%	2200 1073 48.77%
Description Precipitation Rum-off Specific Discharge Runoff Ratio River Basin Description	mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99%	Feb	Mar 114 38.3 103 0.038 90.35%	Apr 169 36.8 96 0.037 56.80% Periay Atu 51 Apr	May 103 18.8 51 0.019 49.51%	Jun 53 7.7 20 0.008 37.74% D	Jul 98 6.3 17 0.006 17.35%	Aug 34 7 19 0.007 55.88%	172 5.8 15 0.006 8.72%	Oct 294 26.8 72 0.027 24.49%	198 56.4 147 0.057 74.24%	472 76.9 207 0.077 43.86%	2200 1073 48.77% Total
Description Precipitation Run-off Specific Discharge Runoff Ratio River Basin Description Precipitation	mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99%	Feb 172 77.4 188 0.078 109.30% 5	Mar 114 38.3 103 0.038 90.35% (tation Mar 96	Apr 169 36.8 96 0.037 56.80% Periay Aru 51 Apr 81	May 103 18.8 51 0.019 49.51%  01 May 35	Jun 53 7.7 20 0.008 37.74% D	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43	Aug 34 7 19 0.007 55.88% Aug 70	172 5.8 15 0.006 8.72% 119 ko	Oct 294 26.8 72 0.027 24.49% m2 Oct 200	198 56.4 147 0.057 74.24% Nov	472 76.9 207 0.077 43.86%	2200 1073 48.77%
Description Precipitation Run-off Specific Discharge Runoff Ratio River Basin Description Precipitation	mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99% Jan 314 11.49	Feb 172 77.4 188 0.078 109.30% 5 Feb 200 6.78	Mar 114 38.3 103 0.038 90.35% station Mar 96 2.44	Apr 169 36.8 96 0.037 56.80% Periay Azu 51 Apr 81 0.62	May 103 18.8 51 0.019 49.51%  01 May 35 0.34	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43 0.13	Aug 34 7 19 0.007 55.88% Aug 70 0.09	172 5.8 15 0.006 8.72% 119 ko Sep 54 0.33	Oct 294 26.8 72 0.027 24.49% m2 Oct 200 0.64	198 56.4 147 0.057 74.24% Nov 321 3.79	472 76.9 207 0.077 43.86% Dec 484 12.05	2200 1073 48.77% Total
Description Precipitation Rum-off Specific Discharge Runoff Ratio  River Basin Description Precipitation Run-off	mm m3/sec mm m3/s/km2 %  Unnichchai  mm m3/sec mm	321 51.2 138 0.051 42.99% Jan 314 11.49 259	Feb 172 77.4 188 0.078 109.30% 5 Feb 200 6.78 138	Mar 114 38.3 103 0.038 90.35% Mar 96 2.44 55	Apr 169 36.8 96 0.037 56.80% Periay Aru 51 Apr 81 0.62 14	May 103 18.8 51 0.019 49.51%  01  May 35 0.34 8	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08 2	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43 0.13 3	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2	172 5.8 15 0.006 8.72% 119 ks Scp 54 0.33 7	Oct 294 26.8 72 0.027 24.49% Oct 200 0.64 14	198 56.4 147 0.057 74.24% Nov 321 3.79 83	472 76.9 207 0.077 43.86% Dec 484 12.05 271	2200 1073 48.77% Total
Description Precipitation Run-off Specific Discharge Runoff Ratio	mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99% Jan 314 11.49	Feb 172 77.4 188 0.078 109.30% 5 Feb 200 6.78	Mar 114 38.3 103 0.038 90.35% station Mar 96 2.44	Apr 169 36.8 96 0.037 56.80% Periay Azu 51 Apr 81 0.62	May 103 18.8 51 0.019 49.51%  01 May 35 0.34	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43 0.13	Aug 34 7 19 0.007 55.88% Aug 70 0.09	172 5.8 15 0.006 8.72% 119 ko Sep 54 0.33	Oct 294 26.8 72 0.027 24.49% m2 Oct 200 0.64	198 56.4 147 0.057 74.24% Nov 321 3.79	472 76.9 207 0.077 43.86% Dec 484 12.05	2200 1073 48.77% Total
Description Precipitation Rum-off Specific Discharge Runoff Ratio River Basia Description Precipitation Run-off Specific Discharge	mm m3/sec mm m3/s/km2 % Unnichchai mm m3/sec mm m3/s/km2	321 51.2 138 0.051 42.99% Jan 314 11.49 259 0.097	Feb 172 77.4 188 0.078 109.30% 5 Feb 200 6.78 138 0.057	Mar 114 38.3 103 0.038 90.35% itation 96 2.44 55 0.021	Apr 169 36.8 96 0.037 56.80% Periay Azu 51 Apr 81 0.62 14	May 103 18.8 51 0.019 49.51%  01  May 35 0.34 8 0.003	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08 2 0.001	98 6.3 17 0.006 17.35%  valinage Area Jul 43 0.13 3 0.001	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001	172 5.8 15 0.006 8.72% 119 kg Sep 54 0.33 7 0.003	Oct 294 26.8 72 0.027 24.45% Oct 200 0.64 14 0.605	198 56.4 147 0.057 74.24% Nov 321 3.79 83 0.032	472 76.9 207 0.077 43.86% Dec 484 12.05 271 0.101	2200 1073 48.77% Total 1919
Description Precipitation Rum-off Specific Discharge Runoff Ratio  River Basin Description Precipitation Run-off Specific Discharge Runoff Ratio	mm m3/sec mm m3/s/km2 % Unnichchai mm m3/sec mm m3/s/km2	321 51.2 138 0.051 42.99% 1an 314 11.49 259 0.097 82.48%	Feb 172 173 188 0.078 109.30% S Feb 200 6.78 138 0.057 69.00%	Mar 114 38.3 103 0.038 90.35% itation Mar 96 2.44 55 0.021 57.29%	Apr 169 36.8 96 0.037 56.80% Periay Aru 51 Apr 81 0.62 14 0.005 17.28%	May 103 18.8 51 0.019 49.51% 001 May 35 0.34 8 0.003 22.86% 001	Jun 53 7.7 20 9.008 37.74% D Jun 21 0.08 2 0.001 9.52%	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43 0.13 3 0.001 6.98%	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001 2.86%	Sep 172 5.8 15 0.006 8.72% 119 ko Sep 54 0.33 7 0.003 12.96%	Oct 294 26.8 72 0.027 24.49% m2 Oct 200 0.64 14 0.605 7.00% m2	198 56.4 147 0.057 74.24% Nov 321 3.79 83 0.032 25.86%	472 76.9 207 0.077 43.86% Dec 484 12.05 271 0.101 55.99%	2200 i073 48.77% Total 1919 856 44.61%
Description Precipitation Rum-off Specific Discharge Runoff Ratio River Basin Description Precipitation Run-off Specific Discharge Runoff Ratio River Basin Runoff Retio River Basin Description	mm m3/sec mm m3/s/km2 % Unnichchai mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99% Jan 314 11.49 259 0.097 82.48%	Feb 172 173 188 0.078 109.30% S Feb 2000 6.78 138 0.057 69.00% S Feb	Mar 114 38.3 103 0.038 90.35%  itation Mar 96 2.44 55 0.021 57.29%	Apr 169 36.8 96 0.037 56.80% Periny Aru 51 Apr 81 0.62 14 0.005 17.28%	May 103 18.8 51 0.019 49.51%  01 May 35 0.34 8 0.003 22.86%	Jun 53 7.7 20 9.008 37.74% D Jun 21 0.001 9.52% D Jun D Jun 9.52%	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43 0.13 3 0.001 6.98%	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001 2.86% Aug	172 5.8 15 0.006 8.72% 119 ks Sep 54 0.33 7 0.003 12.96%	Oct 294 26.8 72 0.027 24.49% m2 200 0.64 14 0.005 7.00% m2 Oct 0.64 0.65 7.00%	198 56.4 147 0.057 74.24%  Nov 321 3.79 83 0.032 25.86%	472 76.9 207 0.077 43.86%  Dec 484 12.05 271 0.101 55.99%	2200 1073 48.77% Total 1919 856 44.61%
Description Precipitation Rum-off Specific Discharge Runoff Ratio  River Basin Description Precipitation Run-off Specific Discharge Runoff Ratio  River Basin Description River Basin Description Precipitation River Basin	mm m3/sec mm m3/s/km2 %  Unnichchai mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99% Jan 314 11.49 259 0.097 82.48%	Feb 172 173 183 0.078 109.30% 5 Feb 200 6.78 138 0.057 69.00% 5 Feb 212	Mar 114 38.3 103 0.038 90.35% itation Mar 90 90 60 2.44 55 0.021 57.29% itation Mar	Apr 169 368 96 0.037 56.80% Periay Aru 51 Apr 81 0.62 14 0.005 17.28% Weengoda 520 Apr 86	May 103 18.8 51 0.019 49.51% 001 May 35 0.34 8 0.003 22.86% 11 May 37	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08 2 0.001 9.52% D Jun 23	Jul 98 6.3 17 0.006 17.35%  rainage Area Jul 43 0.13 3 0.001 6.98%	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001 2.86%	Sep 172 5.8 15 0.006 8.72% 119 kg Sep 54 0.33 7 0.003 12.96% 225 kg Sep 57	Oct 294 26.8 72 0.027 24.45% Oct 200 6.64 14 0.605 7.00% Oct 212	198 56.4 147 0.057 74.24%  Nov 321 3.79 83 0.032 25.86%  Nov 339	472 76.9 207 0.077 43.86% Dec 484 12.05 271 0.101 55.99%	2200 1073 48.77% Total 1919 856 44.61%
Description Precipitation Rum-off Specific Discharge Runoff Ratio  River Basin Description Precipitation Run-off Specific Discharge Runoff Ratio  River Basin Description Precipitation River Basin Description Precipitation Run-off	mm m3/sec mm m3/s/km2 %  Unnichehai mm m3/sec mm m3/sec mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99% Jan 314 11.49 259 0.097 82.48%	Feb 172 173 168 0.078 109 30% 5 Feb 200 6.78 138 0.057 69.00% 5 Feb 212 7.57	Mar 114 38.3 103 0.038 90.35% http://doi.org/10.00000000000000000000000000000000000	Apr 169 368 96 0.037 56.80% Periay Aru 51 Apr 81 0.62 14 0.005 17.28% Weragola 52( Apr	May 103 18.8 51 0.019 49.51% 001 May 35 0.34 8 0.003 22.86% 011 May 37 0.70	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08 2 0.001 9.52% D Jun 23 0.29	Jul 98 6.3 1.7 0.006 17.35%  vainage Aree Jul 43 0.13 3 0.001 6.98%	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001 2.86% Aug 74 0.28	\$\frac{172}{5.8}\$ \$15 0.006 8.72%  119 ke \$\frac{54}{0.33}\$ 0.003 12.96%  225 ke \$\frac{225}{57}\$ 0.26	Oct 294 26.8 72 0.027 24.49%    Det 200 0.64 14 0.605 7.00%    m2	198 56.4 147 10.057 74.24%  Nov 321 3.79 83 0.032 25.86%  Nov 339 4.74	472 76.9 207 43.86%  Dec 484 12.05 271 0.101 55.99%  Dec 512	2200 1073 48.77% Total 1919 856 44.61% Total 2030
Description Precipitation Rum-off Specific Discharge Runoff Ratio  River Basin Description Precipitation Run-off Specific Discharge Runoff Ratio  River Basin Description Precipitation River Basin Description Precipitation River Basin Description Precipitation Run-off Run-off	mm m3/sec mm m3/s/km2 %  Unnichchai mm m3/s/c mm m3/s/km2 %  Mundeni Aru mm m3/sec mm	321 51.2 138 0.051 42.99% 142.99% 143.14 11.49 259 0.097 82.48% 15an 332 16.33 194	Feb 172 173 188 0.078 109 30% 5 Feb 200 6.78 138 0.057 69.00% 5 Feb 212 7.57 81	Mar   114   38.3   103   0.038   90.35%	Apr 169 36.8 96 0.037 56.80% Periay Aru 51 Apr 81 0.62 14 0.005 17.28% Weragola 526 Apr 86 1.70	May 103 18.8 51 0.019 49.51%  May 35 0.34 8 0.003 22.86%	Jun 53 7.7 20 9.008 37.74% D Jun 21 0.08 2 0.001 9.52% D Jun 23 0.29 3	Jul 98 6.3 17 0.006 17.35%  vainage Area Jul 43 0.13 3 0.001 6.98%  rainage Area Jul 45 0.16 2	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001 2.86% Aug 74 0.28 3	\$\frac{172}{5.8}\$ \$15 0.006 8.72%  119 ko \$\frac{54}{0.33}\$ 7 0.003 12.96%  225 ko \$\frac{57}{0.26}\$ 3	Oct 294 26.8 72 0.027 24.49% m2 0.005 7.00% m2 0ct 212 1.51 18	Nov 321 3.79 83 0.032 25.86% Nov 339 4.74	472 769 207 43.86%  Dec 484 12.05 271 0.101 55.99%  Dec 512 15.77 188	2200 1073 48.77% Total 1919 856 44.61%
Description Precipitation Rum-off Specific Discharge Runoff Ratio  River Basin Description Precipitation Run-off Specific Discharge Runoff Ratio  River Basin Description Precipitation River Basin Description Precipitation Run-off	mm m3/sec mm m3/s/km2 %  Unnichehai mm m3/sec mm m3/sec mm m3/sec mm m3/s/km2 %	321 51.2 138 0.051 42.99% Jan 314 11.49 259 0.097 82.48%	Feb 172 173 168 0.078 109 30% 5 Feb 200 6.78 138 0.057 69.00% 5 Feb 212 7.57	Mar 114 38.3 103 0.038 90.35% http://doi.org/10.00000000000000000000000000000000000	Apr 169 368 96 0.037 56.80% Periay Aru 51 Apr 81 0.62 14 0.005 17.28% Weragola 52( Apr	May 103 18.8 51 0.019 49.51% 001 May 35 0.34 8 0.003 22.86% 011 May 37 0.70	Jun 53 7.7 20 0.008 37.74% D Jun 21 0.08 2 0.001 9.52% D Jun 23 0.29	Jul 98 6.3 1.7 0.006 17.35%  vainage Aree Jul 43 0.13 3 0.001 6.98%	Aug 34 7 19 0.007 55.88% Aug 70 0.09 2 0.001 2.86% Aug 74 0.28	\$\frac{172}{5.8}\$ \$15 0.006 8.72%  119 ke \$\frac{54}{0.33}\$ 0.003 12.96%  225 ke \$\frac{225}{57}\$ 0.26	Oct 294 26.8 72 0.027 24.49%    Det 200 0.64 14 0.605 7.00%    m2	198 56.4 147 10.057 74.24%  Nov 321 3.79 83 0.032 25.86%  Nov 339 4.74	472 76.9 207 43.86%  Dec 484 12.05 271 0.101 55.99%  Dec 512	2200 1073 48.77% Total 1919 856 44.61%

Table 5.2-3 POTENTIAL DEVELOPMENT AREA OF ABANDONED IRRIGATION SCHEMES (1/2)

0.	Name of Project	D	istrict	Division	Command Area	Numbers of	Estimated Cost	Year of Study
	**************************************				(ha)	Farm Family	Rs.	Made
1	Elle Kandura	Đ.	adulla	Mapakada	28.32	35	2,400,000	1992
	Pussella Kandura		adulla	Mapakada	40.46	50	= :	
	Udubadana Tank		adulla	Welimada	60,00	70	1,900,000	1997
4			adulla	Bandarawela	40.00	250	4,000,000	199
	Elhenthalawa-Aluketiyawa		adulla	Ridimaliyaddda	25.00	230	2,000,000	199
6			adulla	Welimada			1,750,000	199
	Karawila Landa Anicut		adulia adulla	Meegahakiula	40.00 20.00	210 20	1,500,000	
8			adulla	Mahiyangana	30.00	30	2,000,000	
U		b-total	auuna	Maniyangana	283.78	30	2,000,000	•
9	Wanahapuwa Wewa	Ka	andy	Pathahewaheta	24.47	45	2,000,000	1988
10	Gal Mal Oya Amuna	Ka	andy	Meda Dumbara	12.00	30	400,000	
11	Kirigalpotta Amuna	Ka	andy	Uda Dumbara	20.00	50	650,000	
	sul	b-total			56.47			
12	Korakahagolla Tank	М	atale	Dambulla	60.00	150	3,200,000	1989
	Ridie Ella Scheme		atale	Dambulla	60.00	120	2,000,000	1702
	Bambaragaha Meewalapitiya Wewa		atale	Naula	22.00	40	1,000,000	
15			atale	Wilgamuwa	14.22	25	500,000	
	Topwalapitiya Wewa		atale	wilagamuwa	60.98	98	3,650,000	
**		b-total		······································	217.20	70	5,050,000	
17	W							
17			onaragala	Siyambalanduwa	72.87	60	3,000,000	1988
	Manumgala Wewa		onaragala	Monaragala	40.00	100	2,800,000	1989
19	Morabedda Wewa		опагадаја	Medagama	60.00	100	3,500,000	1990
	Moragoliagema Tank		onaragala	Medagama	60.00	100	3,500,000	1990
	Sepala Wewa		onaragala	Wellawaya	16.19	40		
	Malewana Wewa Ethili Wewa		onaragala	Wellawaya	16.19	40		
			onaragala •	Wellawaya	17.00	42		
	Kohombakote Wewa		onaragala	Wellawaya	30.36	75		
	Matalu Wewa		onaragala	Wellawaya	72.87	180		
	Koonwelana Wewa		опагадаја	Wellawaya	40.49	100		
	Uda Wewa		onaragala	Buttala	12.15	30		
	Akkaravissa Wewa		onaragala	Tanamalwila	12.15	30		
	Juilgahakanatta Wewa		onaragala	Wellawaya	26.72	36	:	
	Batala Ara Wewa		onaragala	Wellawaya	15.38	18		
	Galkada Ara Wewa		onaragala	Monaragala	66.00	66	2,100,000	
32	Khedetta Wewa	MC 5-total	onaragala	Wellawaya	20.24 578.61			
	3110				570.01			
33	Uma Oya Flood Protection		wara Eliya	Nuwara Eliya	30.00	70	800,000	
	sub	-total			30.00			
		Total			1,166.06			

Table 5.2-3 POTENTIAL DEVELOPMENT AREA OF ABANDONED IRRIGATION SCHEMES (2/2)

	Major/Minor Schemes						
No.	Name of Project	District	Division	Command Area	Numbers of	Estimated Cost	Year of Study
				(ha)	Farm Family	Rs.	Made
	Lake Gregory-Silmiyapura Reservoir	Badulla	Welimada	110.00	175	15,000,000	. 1000
	Kuda-Oya Wewa	Badulla	Ridimaliyadda	112.00	173	9,500,000	1992
	Kowarika Scheme Improvement	Badulla	Kandaketiya	120.00	250		1992
	Ranpulawala Wewa-Badulu Oya Scheme	Badulla	Migahakiyula	685.00	1,000	6,000,000	
	Bamunu Ella Wewa	Badulla	Mahiyangana	125.00	150	12,000,000	
•	sub-total		Menyangana	1,152.00	. 130	12,000,000	
6	Dungolia Amuna	Kandy	Hasalaka	82,92	250	1,600,000	1992
7	Hunuketa Degalah Amuna	Kandy	Udadumbara	81.30	200	5,000,000	1992
8	Bandane Amuna	Kandy	Naula Laggala	146.34	200	6,750,000	1992
	sub-total	·		310.56			
9	Morogalla Anicut	Matale	Laggala Palegama	81.30	200	7,500,000	1992
10	Moragahaulpotha Anicut	Matale	Wilgamuwa	81.30	45	1,600,000	
	sub-total			162.60			
11	Kirioruwa Tank	Monaragala	Bibile	142.00	250	24,000,000	1978
12	Putupana Tank	Monaragala	Bibile	202.00	300	30,000,000	1978
13	Mallipotha Tank	Monaragala	Bibile	243.00	250	45,000,000	1979
14	Welioya Diversion Anicut	Monaragala	Tanamalwila	1,560.00	1,500	200,000,000	1992
- 15	Alugalge Tank	Monaragala	Wellawaya	120.00	120	9,870,000	1993
16	Maila Wewa	Monaragala	Siyambalanduwa	80.00	100		
17	Mcayc Ketuwa Ara Wewa	Monaragala	Siyambalanduwa	120.00	120		
18	Kammal Badi Kandiya Wewa	Monaragala	Siyambalanduwa	324.00	324		
19		Monaragala	Bibile	324.00	250	48,000,000	
	Maha Ara Amuna	Monaragala	Wellawaya	83.40	50		
	Monerakanda Wewa	Monaragala	Wellawaya	na	na	4	
22	Maharanawaranawa Wewa	Monaragala	Tanamalwila	na	па		
	sub-total	:		3,198.40			
23	Medakumbura Tank And Augmentation Channel	Nuwara Eliya	Kotmale	203.50	200	20,000,000	1992
	sub-total			203.50			
	Katupath Oya Anicut	Ratnapura	Balangoda	304.87	600	30,000,000	1992
25	Ethgala Tank	Ratnapura	Embilipitiya	325.20	300	75,000,000	
	sub-total			630.07			
	Total			5,657.13			

IMPLEMENTATION PROGRAMME OF NEW REHABILITATION PROJECT

Table 5.3-1

Priority Name of Project	District	Division	Command Area Fart	Farm Family No.	Area per Family	Project Cost	Cost per Area Commencement	ommencement
1 Wellawa Anicut	Rathapura	Atakalanpanna	243.90	002	- 2	30.00	123.00	1007
2 Damme Ela	Ramapura	Elapatha	162.60	150	108	15,000		1991
3 Aran Amuna	Moneragala	Bibile	90:09	150	0,40	5,000		1994
4 Walagoda Anicut	Ramapura	Коютпе	182.90	300	0.61	15,000		1994
5 Hulandawa Oya Anicut	Ratnapura	Embilipitiya	121.95	100	1.22	10,000		1994
6 Horabokka Amuna	Moneragala	Wellawaya	101.21	250	0,40	7,500	74,10	1994
7 Halmillapiliewa Wewa	Moneragala	Buttala	81.00	200	0.41	2,000	61.73	1994
8 Pahala Eraula Wewa	Matale	Dambulia	81.30	300	0.27	5,000	61.50	1994
9 Radagalpotha Anicut	Matale	Laggala	81.30	100	0.81	2,000	61.50	1994
10 Batugedare Anicut	Ratnapura	Pellmadura	87.80	75	1.17	5,000	56.95	1994
11 Debara Ara Wewa	Moneragala	Wellawaya	71.17	240	0.40	5,000		1994
12 Komarika Anicut	Baculia	Migahakivula	120.00	250	0.48	6,000	50.00	1994
Sub-Total 1994			1,421.13			113,500		
13 Paragaha Arawa Anicut	Nuwara Eliya	Walapane	81.30	300	0.27	4,000	49.20	1995
14 Taldena Ela Scheme	Badulla	Sorantota	130.00	260	0.50	5,500	42.31	1995
15 Mallaththawela Radapola Amuna	Moneragala	Wellawaya	121,46	300	0.40	5,000		1995
16 Keenawela Anicut	Nuwara Eliya	Walapane	106.50	200	0.53	4,000		1995
17 Badulu Oya Wewa	Moneragala	Bibile	241.00	130	1.85	8,000		1995
18 Karavila Mailagama Detagamuwa Wewa	Moneragala	Tanamalwila	161.94	400	0.40	5,000	30.88	1995
19 Badulu Oya Anicut	Badulla	Kandaketiya	00:589	1,000	69'0	20,000	29.20	1995
20 Bodhi Ela Anicut	Nuwara Eliya	Hanguranketa	147.56	532	0.28	4,000	27.11	1995
21 Pelwatta Amuna	Moneragala	Buttala	121,46	300	0.40	3,000	24.70	1995
22 Dambarawa Wewa	Badulla	Mahiyangana	428.86	006	0.48	10,000	23.32	1995
23 Kandiyapita Wewa	Moneragala	Tanamalwila	145.75	360	0.40	3,000	20.58	1995
24 Mapakada Wewa	Badulla	Mahiyangana	376.00	009	0.63	7,500	19.95	1995
25 Debigama Reservoir	Badulla	Ridimaliyadda	154.47	160	0.97	3,000	19,42	1995
Sub-Total 1995			2,901.30			82,000		
26 Lamasuriyagama Anicut	Nuwara Eliya	Hanguranketa	138.00	400	0.35	2,000	14,49	1996
27 Bolagandawela Anicut	Nuwara Eliya	Walapane	144.71	120	1.21	2,000		1996
28 Mulhalela Anicut	Nuwara Eliya	Walapane	173.17	160	1.08	2,000	11.55	1996
29 Kahakurullanpelessa Wewa	Moneragala	Tanamalwila	101,21	250	0.40	1,000	88.6	1996
30 Demodara Perani Kandiya	Badulla	Ridimaliyadda	160.00	160	1.00	1,500	9.38	1996
31 Sorabora Wewa	Badulla	Mahiyangana	1,278.00	800	1.60	10,000	7.82	1996
32 Uma Ela	Badulla	Uva Paranagama	813.00	4,400	0.18	6,000	7.38	1996
33 Bowatenna Anicut	Marale	Laggai	117.80	246	0.48	750	6.37	1996
Sub-Total 1996			2,925.89			25,250		
Total			7,248,32			220,750.00		

Table 5.3-2

# IMPLEMENTATION PROGRAMME ON POTENTIAL DEVELOPMENT AREA

# MINOR SCHEMES

Priority	Name of Project	District	Division	Command Area Numbers of Estimated Cost Year of Study Area/Family Cost/Area Commencemen	Numbers of	Estimated Cost	Year of Study	Area/Family	Cost/Area	Commencemen	يب ا
				(Pa)	Farm Family Rs. 1,000	Rs. 1,000	Made		(Rs./ha)	Year	ı
1 100			7	e C			,			•	
	r allarant Anical Scheme	Monaragala	Siyambalanduwa	18'71	3	3,000	1988		4	1999	
2 Pus	2 Pussella Kandura	Badulla	Mapakada	40.46	50	1,900	1992		47	1999	
3 Km	<ol> <li>Kumbalwela Dambagolla Wewa Scheme</li> </ol>	Badulla	Bandarawela	40.00	250	2,000	1993		· S	2000	
4 Ko	4 Korakahagoliz Tank	Matale	Dambulla	60.00	150	3,200	1989		53	2000	
5 Mo	5 Morabedda Wewa	Monaragala	Modagama	90.00	100	3,500	1990		58	2001	
6 Mo	6 Moragollagama Tank	Monaragala	Medagama	90.09	100	3,500	1990		58	2001	
7 US	7 Udubadana Tank	Badulla	Welimada	60.00	70	4,000	1992		. 67	2002	
8 Ma	8 Manungala Wewa	Monaragala	Monaragala	40.00	92	2,800			70	2002	
9 E	9 Elhenthalawa-Aluketiyawa	Badulla	Ridimaliyaddda	25.00	20	1,750		125	70	2003	
10 Wa	<ol> <li>Wanahapuwa Wewa</li> </ol>	Kandy	Pathahewaheta	24.47	4.5	2,000	1988	0.54	83	2003	
11 EIK	11 Elle Kandura	Badulla	Mapakada	28.32	35	2,400	1992	0,81	82	2003	
	F	Total		511.12		30,050			٠		

# MAJOR/MEDIUM SCHEMES

Priority Name o	Name of Project	District	Division	Command Area	Numbers of	Command Area Numbers of Estimated Cost Year of Study Area/Family Cost/Area Commencement	Year of Study	Area/Family	Cost/Area	Соштелсе
				(ha)	Farm Family	Rs. 1,000	Made		(Rs./ha)	Year
1 Dungolla Amuna	*	Candy	Hasalaka	82.92	250	1,600	1992	0.33	19	1999
2 Bandane Amuna	24	Candy	Naula Laggala	146.34		6,750		0.73	4	1999
3 Hunuketa Degalah Amuna		Kandy	Udadumbara	81.30		5,000	1992	0.41	62	1999
4 Alugalge Tank	4	Aonaragala	Wellawaya	120.00	120	0/8'6		1.8	82	1999
5 Kuda-Oya Wewa	м	Badulla	Ridimaliyadda	112.00	140	005'6		08'0	88	
	~	Matale	Laggala Palegama	81.30		7,500		0.41	26	
7 Medakumbura Tank An	Medakumbura Tank And Augmentation Channel Nuwara Eliya Kounale	luwara Eliya	. Kornale	203.50	200	20,000		1.02	8	٠.
8 Katupath Oya Anicut		Ramapura	Balangoda	304.87		30,000		0.51	86	
9 Welioya Diversion Anicut		Monaragala	Tanamalwila	1,560.00	_	200,000		1.04	128	
10 Lake Gregory-Silmiyapura	Reservoir	Badulla	Welimada	110,00		15,000		0.63	136	
11 Putupana Tank	_	Monaragala	Bibile	202.00	300	30,000	1978	19:0	149	2003
12 Kirioruwa Tank	4	Monaragala	Bibile	142.00		24,000		0.57	169	_
13 Mallipotha Tank		Monaragala	Bibile	243.00		45,000		0.97	185	
	Total			3.389.23		404 220				

# ESTIMATED COST OF MAJOR/MEDIUM REHABILITATION

	<u> </u>				Rs.	1,000
District	Year	1993	1994	1995	1996	Total
Matale	NIRP	0	5,000	5,000	2,000	12,000
	Others	ŏ	0	0	2,000	12,000
	New Project	ŏ	10,000	ő	750	10,750
	Total	ő	15,000	5,000	2,750	22,750
	- +		10,000	5,000	2,750	22,730
Kandy	NIRP	38,765	0	0	15,000	53,765
• • • • • • • • • • • • • • • • • • •	Others	0	0	0	0	0
	New Project	. 0	0	0	0	0
	Total	38,765	0	0	15,000	53,765
Managara Eliza	NUDD	0	0	0.000	C 000	15.000
Nuwara Eliya	NIRP	0	0	9,000	6,000	15,000
	Others	0	0	0	0	0
	New Project	0	0	12,000	6,000	18,000
	Total	. 0	0	21,000	12,000	33,000
Badulla	NIRP	0	72,000	12,500	1,225	85,725
	Others	12,000	0	0	0	12,000
. *	New Project	0	6,000	46,000	17,500	69,500
	Total	12,000	78,000	58,500	18,725	167,225
Marian di	NADO			40.000		
Moneragala	NIRP	37,162	14,000	10,000	0	61,162
	EEC	56,100	30,500	27,500	0	114,100
	Others	31,500	0	0	0	31,500
	New Project	0	22,500	24,000	1,000	47,500
	Total	124,762	67,000	61,500	1,000	254,262
Ratnapura	NIRP	80,000	0	0	0	80,000
ramapara	Others	00,000	ő	0	0	00,000
	New Project	0	75,000	ő	ő	75,000
	Total	80,000	75,000	0	0 -	155,000
m . 1						
Total	NIRP	155,927	91,000	36,500	24,225	307,652
	EEC	56,100	30,500	27,500	0	114,100
	Others	43,500	0	0	0	43,500
	New Project	0	113,500	82,000	25,250	220,750
	Total	255,527	235,000	146,000	49,475	686,002

Table 5.3-4 ESTIMATED COST OF MINOR SCHEMES REHABILITATION (1/4)

Year			1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Maiale	NIRP	Over 30 ha	4,760	280	280	210	0	. 0	0	. 0	0	0	0	5,530
		5 to 30 ha	13,510	7,105	7,105	7,105	0	0	0	0	0	0	0	34,825
		Below 5 ha	0	7,105	0,103	. 0	0	. 0	0	0	0	0	0	J4,02 (
		sub-total	18,270	7,385	7,385	7,315	0	0	0	0	0	0	0	40 355
			,	.,	.,	- 1,			Ť		•	•	_	10,555
	IRDP	Over 30 ha	0	0	0	0	0	. 0	0	. 0	0	0	0	C
		5 to 30 ha	0	0	0	0	0	0	0	0	0	0	0	C
		Below 5 ha	0	0	0	0	0	0	0	0	. 0	0	0	C
		sub-total	0	0	0	0	0	, 0	0	0	0	0	0	0
	New Scheme	Over 30 ha	o	0	0	0	0	0	0	0	. 0	0	0	0
		5 to 30 ha	0	1,330	1,330	1,330	3,220	3,220	3,220	3,220	3,220	3,220	3,500	26,810
	-	Below 5 ha	0	1,715	1,715	1,715	4,130	4,130	4,130	4,130	4,130	4,130	4,375	34,300
		sub-total	0	3,045	3,045	3,045	7,350	7,350	7,350	7,350	7,350	7,350	7,875	61,110
	Total	Over 30 ha	4,760	280	280	210	0	0	0	0	0	. 0	0	5,530
		5 to 30 ha	13,510	8,435	8,435	8,435	3,220	3,220	3,220	3,220	3,220	3,220	3,500	61,635
		Below 5 ha	0	1,715	1,715	1,715	4,130	4,130	4,130	4,130	4,130	4,130	4,375	34,300
		sub-total	18,270	10,430	10,430	10,360	7,350	7,350	7,350	7,350	7,350	7,350	7,875	101,465
	<del></del>					·				<del></del>	<del> </del>			
Kandy														
	NIRP	Over 30 ha	1,855	735	735	805	0	0	0	0	0	0	0	4,130
		5 to 30 ha	20,545	8,295	8,295	8,260	. 0	0	0	0	0	0	0	45,395
		Below 5 ha	0	0	0	0	0	0	0	0.	0	0	0	0
		sub-total	22,400	9.030	9,030	9,065	0	0	0	0	. 0	. 0	0	49,525
	IRDP	Over 30 ha	0	0	0	0	0	0	0	0	. 0	0	0.	0
		5 to 30 ha	0	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	22,750
		Below 5 ha	0	2,275	2.275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	2,275	22,750
		sub-total	0	4,550	4,550	4,550	4,550	4,550	4,550	4,550	4,550	4,550	4,550	45,500
	New Scheme	Over 30 ha	0	1,820	1,820	1,820	4,375	4,375	4,375	4,375	4,375	4,375	4,655	36,365
		5 to 30 ha	0	2,940	2,940	2,940	7,000	7,000	7,000	7,000	7,000	7,000	7,560	58,380
		Below 5 ha	0	2,590	2,590	2,590	6,195	6,195	6,195	6,195	6,195	6,195	6,580	51,520
		sub-total	. 0	7,350	7,350	7,350	17,570	17,570	17,570	17,570	17,570	17,570	18,795	146,265
	Total	Over 30 ha	1,855	2,555	2,555	2,625	4,375	4,375	4,375	4,375	4,375	4,375	4,655	40,495
		5 to 30 ha	20,545	13,510	13,510	13,475	9,275	9,275	9,275	9,275	9,275	9,275	9,835	126,525
		Below 5 ha	. 0	4,865	4,865	4,865	8,470	8,470	8,470	8,470	8,470	8,470	8,855	74,270
		sub-total	22,400	20,930	20,930	20,965	22,120	22,120	22,120	22,120	22,120	22,120	23,345	241,290

Table 5.3-4 ESTIMATED COST OF MINOR SCHEMES REHABILITATION (2/4)

Year	<del></del>	<del></del>	1000	1001	1001	1004								Rs. 1,00
1 car		<del></del>	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
., ,,,,														
Nuwara Eli		O 20 b.		2.500	2.000		_		_					
	NIRP	Over 30 ha	6,440	2,590	2,590	2,625	0	0	0	0	0	0	0	14,24
		5 to 30 ha	8,330	3,360	3,360	3,395	0	0	0	0	0	0	0	18,4
		Below 5 ha	0	0	0	0	0	0	0	0	0	0	0	
		sub-total	14,770	5,950	5,950	6,020	. 0	0	0	0	0	0	0	32,69
•	IRDP	Over 30 ha	0	0	0	0	0	0	0	0	0	0	0	
		5 to 30 ha	. 0	0	0	0	0	0	0	0	0	0	. 0	
		Below 5 ha	0	0	. 0	0	0	0	0	0	0	0	0	
		sub-total	0	0	0	0	0	0	0	0	0	0	0	
	New Scheme	Over 30 ha	0	490	490	490	1,225	1 225	1 225	1.000	1 225			• • • •
	THOM GOLLEND	5 to 30 ha	0	2,170	2,170	2,170	5,215	1,225 5,215	1,225	1,225	1,225	1,225	1,295	10,11
		Below 5 ha	0	1,855	1,855	1,855	4,445	4,445	5,215 4,445	5,215	5,215	5,215	5,740	43,54
		sub-total	0	4,515	4,515	4,515	10,885	10.885	10,885	4,445 10,885	4,445	4,445	4,795	37,0
		540 10411	ū	4,013	4,515	4,515	10,005		10,003	10,003	10,885	10,885	11,830	90,68
	Total	Over 30 ha	6,440	3,080	3,080	3,115	1,225	1,225	1,225	1,225	1,225	1,225	1,295	24,30
		5 to 30 ha	8,330	5,530	5,530	5,565	5,215	5,215	5,215	5,215	5,215	5,215	5,740	61,9
		Below 5 ha	0	1,855	1,855	1,855	4,445	4,445	4,445	4,445	4,445	4,445	4,795	37,0
		sub-total	14,770	10,465	10,465	10,535	10,885	10,885	10,885	10,885	10,885	10,885	11,830	123,37
Badulla	NIRP	Over 30 ha	0	.0	0		^					_		
	MAKE	5 to 30 ha	11,410	7,210		0	0	0	0	0	0	0	0	
		Below 5 ha	11,410	7,210	7,210 0	7,245 0	0	. 0	0	0	0	0	0	33,07
		sub-total	11,410	7,210			0	0	.0	0	0	0	0	
		Sub-totat .	11,410	7,210	7,210	7,245	0	0	0	0	0	0	0	33,07
	IRDP	Over 30 ha	0	0	0	0	o	0	0	0	0	0	0	
		5 to 30 ha	1,925	1,925	1,925	1,925	1,925	1,925	1,925	0	0	0	0	13,47
		Below 5 ha	2,100	2,100	2,100	2,100	2,100	2,100	2,100	0	0	0	0	14,70
		sub-total	4,025	4,025	4,025	4,025	4,025	4,025	4,025	0	0	0	0	28,17
•	New Scheme	Over 30 ha	0	280	280	230	630	630	630	630	630	630	630	5,25
*		5 to 30 ha	0	1,155	1,155	1,155	2,800	2,800	2,800	2,800	2,800	2,800	3,045	23,31
		Below 5 ha	0	1,575	1,575	1,575	3,815	3,815	3,815	3,815	3,815	3,815	4,060	31,67
		sub-total	0	3,010	3,010	3,010	7,245	7,245	7,245	7,245	7,245	7,245	7,735	60,23
	Total	Over 30 ha	. 0	280	280	280	630	630	630	630	630	620	(20	
	- 1710,03	5 to 30 ha	13,335	10,290	10,290	10,325	4,725	4,725			630	630	630	5,25
		Below 5 ha	2,100	3,675	3,675	3,675	5,915		4,725	2,800	2,800	2,800	3,045	69,86
		sub-total	15,435	14,245	14,245	14,280		5,915	5,915	3,815	3,815	3,815	4,060	46,37
		Sub-total	13,433	14,243	14,243	14,200	11,270	11,270	11,270	7,245	7,245	7.245	7,735	121,48

Table 5.3-4 ESTIMATED COST OF MINOR SCHEMES REHABILITATION (3/4)

													]	Rs. 1,000
Year			1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Moneragala	4													
-roncinkasa	NIRP	Over 30 ha	3,745	1,645	1,645	1,575	0	0	0	0	0	0	0	8,61
		5 to 30 ha	11,445	7,980	7,980	7,910	0	0	0	0	0	0	0	35,31
		Below 5 ha	0	0	. 0	0	0	0	. 0	0	0	0	. 0	1
		sub-total	15,190	9,625	9,625	9,485	. 0	0	0	0	. 0	0	0	43,92
	IRDP	Over 30 ha	0	0	. 0	0	. 0	0	0	0	0	0	0	
		5 to 30 ha	0	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	10,50
		Below 5 ha	0	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	175	9.62
		sub-total	0	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	1,225	20,12
	New Scheme	Over 30 ha	0	0	0	0	0	0	0	0	0	0	0	
		5 to 30 ha	0	280	280	280	665	665	665	665	665	665	735	5,56
		Below 5 ha	0	0	0	0	0	0	0	0	0	0 '	1.0	
		sub-total	0	280	280	280	665	665	665	665	665	665	735	5,56
	Total	Over 30 ha	3,745	1,645	1,645	1,575	0	0	0	0	. 0	0	. 0	8,61
		5 to 30 ha	11,445	9,310	9,310	9,240	1,715	1,715	1,715	1,715	1,715	1,715	1.785	51,38
		Below 5 ha	0	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	175	9,62
		sub-total	15,190	12,005	12,005	11,865	2,765	2,765	2,765	2,765	2,765	2,765	1,960	69,61
Kegalle														
	NIRP	Over 30 ha	980	980	980	980	0	0	0	0	. 0	0	. 0	3,920
	·	5 to 30 ha	8,085	3,080	3,080	3,115	0	0	0	0	0	0	. 0	17,360
		Below 5 ha	0	0	0	0	0	0	0	0	0	0	0	
		sub-total	9,065	4,060	4,060	4,095	0	0	0	0	0	0	0	21,28
	IRDP	Over 30 ha	. 0	0	0	0	0	0	0	0	. 0	0	0	
		5 to 30 ha	2,730	2,730	0	0	0	0	. 0	0	0	0	0	5,460
		Below 5 ha	10,745	10,745	. 0	0	0	0	0	0	0	0	. 0	21,49
		sub-total	13,475	13,475	. 0	. 0	0	0	0	. 0	0	0	0	26,95
	New Scheme	Over 30 ha	0	70	. 70	70	140	140	140	140	140	140	105	1,15
		5 to 30 ha	0	0	. 0	0	0	0	0	. 0	0	0	. 0	
		Below 5 ha	0	245	245	245	595	595	595	595	595	595	665	4,97
		sub-total	0	315	315	315	735	735	735	735	735	735	770	6,12
	Total	Over 30 ha	980	1.050	1,050	1,050	140	140	140	140	140	140	105	5,07
		5 to 30 ha	10,815	5,810	3,080	3,115	0	0	0	0	0	0	0	22,82
		Below 5 ha	10,745	10,990	245	245	595	595	595	. 595	595	595	665	26,460
		Dolo J Im	10,145	10,770	213	D-10	-,,,	373	2,22		2,22	3/3	COS	20, 10

Table 5.3-4 ESTIMATED COST OF MINOR SCHEMES REHABILITATION (4/4)

														Rs. 1,000
Year		<u> </u>	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
						•								
Ratnapura	MDD	Over 30 ha	3,185	1,435	1,435	1,365	0	. 0	0	0	. 0	0	0	7,42
	NIRP	5 to 30 ha	17,675	7,910	7,910	7,875	0	0	o o	ő	ő	ő	0	41,37
		Below 5 ha	17,075	7,910	0,910	0	0	0	0	0	0	0	0	74,57
		sub-total	20,860	9,345	9,345	9,240	0	ő	0	0 -	ő	0	Ü	48,79
		Sub-totat	20,000	3,343	3,343	3,240	v	v	·	0.	Ū		·	10,77
	IRDP	Over 30 ha	0	0	0	0	0	. 0	0	0	0	0	0	
		5 to 30 ha	0	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	70	12,67
		Below 5 ha	0	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	2,730	15,33
		sub-total	0	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	28,00
	New Scheme	Over 30 ha	0	210	210	210	455	455	455	455	455	455	490	3,85
		5 to 30 ha	0	0	0	0	. 0	0	0	0	0	. 0	0	1
		Below 5 ha	0	420	420	420	980	980	980	980	980	980	1,050	8,19
		sub-total	0	630	630	630	1,435	1,435	1,435	1,435	1,435	1,435	1,540	12,04
	Total	Over 30 ha	3,185	1,645	1,645	1,575	455	455	455	455	455	455	490	11,27
	rom,	5 to 30 ha	17,675	9,310	9,310	9,275	1,400	1,400	1,400	1,400	1,400	1,400	70	54,04
		Below 5 ha	0	1,820	1,820	1,820	2,380	2,380	2,380	2,380	2,380	2,380	3,780	23,52
		sub-total	20,860	12,775	12,775	12,670	4,235	4,235	4.235	4,235	4,235	4,235	4,340	88,83
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				······································								<del> </del>	
Overall	•													
	NIRP	Over 30 ha	20,965	7,665	7,665	7,560	0	0	0	0	0	0	0	43,85
		5 to 30 ha	91,000	44,940	44,940	44,905	. 0	0	0	0	0	0	0	225,78
		Below 5 ha	- 0	0	0	0	0	0	0	0	0	0	0	
		sub-total	111,965	52,605	52,605	52,465	0	0	0	0	0	0	0	269,64
	IRDP	Over 30 ha	0	0	. 0	0	0	0	0	0	0	0	0	
		5 to 30 ha	4,655	9,380	6,650	6,650	6,650	6,650	6,650	4,725	4,725	4,725	3,395	64,85
		Below 5 ha	12,845	17,570	6,825	6,825	6,825	6,825	6,825	4,725	4,725	4,725	5,180	83,89
		sub-total	17,500	26,950	13,475	13,475	13,475	13,475	13,475	9,450	9,450	9,450	8,575	148,75
	New Scheme	Over 30 ha	. 0	2,870	2,870	2,870	6,825	6,825	6,825	6,825	6,825	6,825	7,175	56,73
	The Continue	5 to 30 ha	0	7,875	7,875	7,875	18,900	18,900	18,900	18,900	18,900	18,900	20,580	157,60
		Below 5 ha	0	8,400	8,400	8,400	20,160	20,160	20,160	20,160	20,160	20,160	21,525	167,68
		sub total	0	19,145	19,145	19,145	45,885	45,885	45,885	45,885	45,885	45,885	49,280	382,02
	Total	Over 30 ha	20,965	10,535	10,535	10,430	6,825	6,825	6,825	6,825	6,825	6,825	7,175	100,59
	10tai	5 to 30 ha	95,655	62,195	59,465	59,430	25,550	25,550	25,550	23,625	23,625	23,625	23,975	448,24
		Below 5 ha	12,845	25,970	15,225	15,225	26,985	26,985	26,985	24,885	24,885	24,885	26,705	251,58
		sub-total	129,465	98,700	85,225	85,085	59,360	59,360	59,360	55,335	55,335	55,335	57,855	800,41
		20th-rorat	127,403	70,100	JJ-22J	05,005	37.300	37,300	33,300	20,000	20,000	201000	- ,	

Table 5.3-5

# ESTIMATED COST OF ABANDONED SCHEMES REHABILITATION

						Un	it : Rs. 1,000
District	Year	1999	2000	2001	2002	2003	Total
Matale	Major/Medium	7,500	0	. 0	۸		7 600
Mutataic	Minor				0	0	7,500
		0 7.500	3,200	0	0	0	3,200
:	Total	7,500	3,200	0	0	0	10,700
Kandy	Major/Medium	13,350	0	0	0	0	13,350
	Minor	0	0	0	0	2,000	2,000
•	Total	13,350	0	0	0	2,000	15,350
Nuwara Eliya	Major/Medium	0	20,000	. 0	0	0	20,000
	Minor	ő	0	ő	ő	0	20,000
	Total	- 0	20,000	ő	0	. 0	20,000
	roma .	V	20,000	v	U	· ·	20,000
Badulla	Major/Medium	9,500	0	0	0	15,000	24,500
	Minor	1,900	2,000	0	4,000	4,150	12,050
	Total	11,400	2,000	0	4,000	19,150	36,550
Moneragala	Major/Medium	9,870	0	200,000	0 .	99,000	308,870
Ü	Minor	3,000	Õ	7,000	2,800	0	12,800
	Total	12,870	ő	207,000	2,800	99,000	321,670
Ratnapura	Major/Medium	. 0	30,000	0	0	0	30,000
•	Minor	0	0	. 0	0	0	0
	Total	0	30,000	0	0	0	30,000
Kegalle	Major/Medium	0	0	0	0	0	0
v	Minor	0	0	Ö	ŏ.	o ·	0
	Total	0 .	0	.0	Ŏ	0	ő
Total	Major/Medium	40,220	50,000	200.000	٥	114.000	
1 Oldi	Minor	40,220 4,900		200,000	0	114,000	404,220
	Total	45,120	5,200	7,000	6,800	6,150	30,050
	iotai	43,120	55,200	207,000	6,800	120,150	434,270

Table 5.4-1 FORECAST OF REHABILITATION PROGRAM FOR RURAL ROAD BY IRDP

	Actua	Actual Results	:	Rehabi	Rehabilitation Program	ш	Forecast
	Total Length P	eriod(year	Period(year) Per Year	Total Length	Period(year)	Per Year	Per Year
Kandy	17.6 km	<del>,</del>	17.6 km		Not prepared		18 km
Nuwara Eliya	Foot Path only			No Rehat	No Rehabilitation Programme	mme	0 km
Matale	331.0 km	10	33.1 km		IRDP over		0 km
Central Province			, <u>, , , , , , , , , , , , , , , , , , </u>				18 km
Ratnapura	112.5 km	8	14.1 km		Not prepared		14 km
Kegalle	164.7 km	7	23.5 km	153.0 km	' 7	76.5 km	24 km
Sabaragamuwa Province				1,0000 0000 0000 0000 0000 0000 0000 00			38 km
Badulla	291.0 km	10	29.1 km	130.0 km	7	18.6 km	18 km
Moneragala	93.0 km	∞	11.6 km	<b>Z</b> .	Not prepared		10 km
Uva Province					T T		30 km
Study Area							W4 78

COMPUTATION OF MASTER PLAN VOLUME FOR RURAL ROAD Table 5.4-2

			Cla	Class C					Class D	S.D.					Class E	SE		
District	Existing Length (km)	Need Rehs Length (km)	abilitation Percent	Existing Need Rehabilitation Proposed After Rehabilitation Length Length Percent Volume Length Percent (km) (km) % (km) %	After Reha Length (km)	abilitation Percent	Existing Length (km)	Need Reha Length (km)	Existing Need Rehabilitation 1 Length Length Percent (km) (km) %	Proposed A Volume (km)	After Rehabilitation Length Percent (km) %	bilitation Percent	Existing 1 Length (km)	Need Reha Length (km)	Need Rehabilitation Proposed After Rehabilitation Length Percent Volume Length Percent (3cm) % (km) % (km) %	Proposed Volume (km)	After Reha Length (km)	bilitation Percent
Central															:			!
Kandy	808	549	549 67.9%	246	303	37.5%	633	293	46.4%	116	177	28.0%	1,640	220	13.4%	220	ထ	0.0%
Nuwara Eliya	381	194	51.0%	72	122	32.1%	225	146	64.7%	99	85	37.9%	305	71	23.1%	7	0	0.0%
Matale	339	177	52.1%	99	111	32.7%	237	197	83.2%	108	86	37.6%	1,080	146	13.5%	146	0	0.0%
Sub-total	1,528	920	60.2%	382	536	536 35.1%	1,095	636	58.1%	284	352	32.2%	3,025	436	14.4%	436	0	0.0%
Sabaragamuwa																		
Ratnapura	495	233	233 47.0%	\$	148	148 30.0%	379	198	52.3%	14	121	32.0%	1,579	283	17.9%	283	0	0.0%
Kegalle	377	43	43 11.3%	1	42	42 11.1%	. 350	119	34.1%	41	78	22.3%	757	269	35.5%	569	0	0.0%
Sub-total	872	275	31.6%	88	190	21.8%	728	317	43.6%	118	199	27.4%	2,336	551	23.6%	551	0	0.0%
Uva							,	٠				· ·	.:			:		
Badulla	570	292	292 51.2%	124	168	29.5%	480	248	51.6%	109	138	28.8%	834	200	24.0%	200	0	0.0%
Monaragala	395	71	17.8%	14	57	57 14.4%	459	86	21.4%	41	57	12.5%	1,156	219	19.0%	219	0	0.0%
Sub-total	965	362	37.5%	138	225	23.3%	626	346	36.8%	150	196	20.8%	1,990	419	21.1%	419	0	0.0%
Total	3,366	1,558	1,558 46.3%	209	951	28.3%	2,763	1,299	47.0%	552	747	27.0%	7,351	1,407	19.1%	1408	0	0.0%

Table 5.4-3 MASTER PLAN REHABILITATION VOLUME FOR RURAL ROAD

į								(Unit: km)
Class	District	Need	To be rehabi	To be rehabilitated in 1993	Volume of	Implementat	Implementation Plan (1994~2003)	003)
		Rehabilitation	PC Budget	IRDP Budget	Master Plan	PC Budget	IRDP Budget	New Project
Class C	Kandy	246	10		236	100		136
	Nuwara Eliya	72	8		69	30		30
	Matale	99	m		63	30	-	, c,
	Ratnapura	84	ĸ'n.		81	30		) <del>(</del>
	Kegalle	<b>.</b>	0		<del>red</del>	0		)
	Badulla	124	'n		119	50		, O
	Monaragala	14			13	01		) r
	Sub-total	209	25		582	250		332
Class D	Kandy	116	ŝ		111	50		19
	Nuwara Eliya	99	2		58	20		7 %
	Matale	108	5		103	20		9 %
	Ratnapura	77	4		73	40		3 C
	Kegalle	41	7		39	70		10
	Badulla	109	3		104	50		, 4 V
	Monaragala	41	2		39	20	-	19
	Sub-total	552	25		527	250		277
Class E	Kandy	220		18	202		180	22
	Nuwara Eliya	71		0	71		<u> </u>	7 1.
	Matale	146		0	146		) C	146
	Ratnapura	283		14	269		140	120
	Kegalle	269		24	245		240	, ~
	Badulla	200		18	182		180	, c
	Monaragala	219		12	207		120	2 6
	Sub-total	1,408		98	1,322		860	462
Total		2,567	20	98	2,431	200	860	1 072
						* * * *	^^	7 ) No. 7

PROJECT COST OF MASTER PLAN FOR RURAL ROAD Table 5.4-4

			Class C			-			Class D			-			Choos D				
District	Volume of N	Volume of Master Plan Public Investment	Public Inv	estment,	New Project	oject	Volume of Master Plan			vestment	New Project	pject	Volume of Master Plan	faster Plan	IRDP	٩	New Project	iei	Total
	Length	Cost	Length	Cost	Length	Cost	Length	Cost	Length	Cost	Length	ő	Length	Cost	Lenoth	Ü	Lenoth	, John Co	38
	(Jem)	(Mil.Rs.)	(km) (	(km) (Mil.Rs.)	(km) (Mil.Rs	Viil.Rs.)	(km)	(Mil.Rs.)	(km) (	(km) (Mil.Rs.)	(km) (Mil.Rs.)	viii.Rs.)	(Ka)	(Mil.Rs.)	(ES)	(km) (Mil.Rs.)	(km) (Mil.Rs.)	Mil Rs.)	Wil Re
Central						····													
Kandy	236	354.0	100	150.0	136	204.0	111	133.2	20	0.09	19	73.2	202	202.0	180	180.0	23	22.0	689.2
Nuwara Eliya	69	103.5	30	45.0	39	58.5	88	69.6	79	24.0	38	45.6	77	71.0	Ó	0.0	711	71.0	244.1
Matale	63	94.5	30	45.0	33	49.5	103	123.6	50	60.0	53	63.6	146	146.0	0	0:0	146 146.0	146.0	364.1
Sub-total	368	552.0	160	240.0	208	312.0	272	326.4	120	144.0	152	182.4	419	419.0	180	180.0	239	239.0	1,297.4
Sabaragamuwa						<u></u>												ļ	
Ratnapura	<b>?™</b>	121.5	30	45.0	51	76.5	73	73.0	40	40.0	33	33.0	569	269.0	140	140.0	129	129.0	463.5
Kegalle	<del>pool</del>	1.5	0	0.0	-	1.5	39	39.0	20	20.0	19	19.0	245	245.0	240	240.0	w	5.0	285.5
Sub-total	82	123.0	30	45.0	52	78.0	112	112.0	8	60.0	52	52.0	514	514.0	380	380.0	134	134.0	749.0
Uva								,		<u> </u>								ļ	
Badulla	119	178.5	50	75.0	69	103.5	104	104.0	20	50.0	54	54.0	182	182.0	180	180.0	7	2.0	464.5
Monaragala	13	19.5	10	15.0		4.5	39	39.0	20	20.0	19	19.0	207	207.0	120	120.0	87	87.0	265.5
Sub-total	132	198.0	09	0.06	72	108.0	143	143.0	70	70.0	73	73.0	389	389.0	300	300.0	68	89.0	730.0
Total	582	873.0	250	375.0	332	498.0	527	581.4	250	274.0	277	307.4	1,322	1,322.0	098	860.0	462	462.0	2,776.4
																		-	~

# Table 5.4-5 COMPUTATION OF MASTER PLAN VOLUME FOR WATER SUPPLY

# At Present

District	Total		Piped Scheme	cheme		Han	Hand Pump			Duo W	1		Total Reneficionies	- diorior	250
	Families			Number	_		Number of	•	Public	Si se	<b>,</b>		Total Trail	CALLES	Celens
		Families	% of	% of Schemes Families/No	Vol Families		% Hand Pums Families/No	miliacAvo	Familias	Livate					(Unprotected)
Kandy	244 750	401.00	200		L		O. T. C.	0.160	- annuce	raimiscs	Lotai	8			į
themat.	2001	\$0.15¢	17.8%	158 191	37,820	22.3%	2,304	16.4	48.386	53,284	101 670	20 00%	160 637	60.20	701 32
Nuwara Eliya	139.571	13.230	24 39%	131		800	•				201	2	170,501	07.270	071,01
, , , , ,			? }	101		0.0%	>	•	14,476	26,690	41,166	75.7%	54.396	39.0%	85.175
Maraic	96,416	11,031	15.3%	58	0 24.695		1 778	12.0	1001	10 207	107.70				
Datasanea	100 661		1		<u> </u>				17,01	10,001	30,00	20.0%	72,330	75.0%	24,086
samajura.	192,301	70,149	70.3%	141 18	185 7,909		515	15.4	34,500	60 523	95 023	73 60%	120.001	2000	404 47
Kegalle	171.644	13 793	11 40%	8	-				<b>&gt;</b>	1	740.00	8.5.5	100,571	07.70	05,480
	)	77,100	7.1.4%	₹.	2,480		149	22.7	21,280	82,229	103.509	85.8%	120.677	70.30%	50.067
Badulla	156,254	30,132	34,9%	274 11	0 8 710	10.10%	346	0.20	04.000	000				2	5000
Monamorals	75 027	000			5		2	7.7	24,000	77,383	4 .421	25.0%	86,263	55.2%	69.69
rromandedia	70,07	4,2,38	8%	22 15	195 9,220	21 19%	524	17.6	18 802	11464	22000			1	
Total	1.077.028	130 757	10.00		Ľ					20162	20,700	87.T%	45,/84	51.7%	32,048
	Omn(1.10f=	100,137	17.0%	8/4 · 14	147 91,739	13.6%	5,616	16.3	180,499	275.160	455.659	67.4%	774.145	208 69	400 972
										23161	10000		1	0/ 000	7

# In 2003

USTICE	Total	Taropt		Ding Cohomo	Obomo									
	Families	Families		o stadie z	Number		Hand	Hand Pump		Dug Well	;	Total Beneficiaries	ficiaries	Others
			Families	0%	% of Schemes Families/No	Vol Families	88	Number Families/No	- Wood		%		<u>~</u> .	Unprotected)
Kandy	272 714	104.000	10.400	200			ľ		0.1001	rammes				
	+1.0,11	2,5	10,472	17.8%	<u> </u>	191 23,208	22.3%	1,414	16.4	005 69	50 00%	104 000	100.00	•
Nuwara Eliya	155,332	54.336	13.216	24 39	131	-	800			00000	27.7 10	060401	3.00.0%	⊃
				2	101	) -	0.0%	>	<u>i</u>	41,121	75.7%	54.336	70 0%	46 600
Matale	107,399	35,069	5,348	15.3%	28 15	190 11.973	34.1%	698	13.0				2000	000101
Ramaning	212 655	VC3 VO	1111	6000						11,141	30.0%	33,069	100.0%	0
ari dina	410,000	7	17,133	20.3%	92 IS	185 5,182	6.1%	337	15.4	02669	72 60.	145 40	2000	•
Kegalle	190,889	70.212	010 X	11 40%	57	1 000		į		(67:20	3,0,0	£,7,4	100.0%	<b>&gt;</b>
;			2,040	4 4 . 4 1/2	-	5. 2.30 2.40	0%×7.7	(X)	22.7	60.223	85.8%	70.212	10000	C
Badulla	173,763	87,500	30,564	34.9%	278	10 8835	10 10%	351	26.7		2 1		200	
Monaragala	CA 222	00200	C C	2				400	4.04	48,101	22.0%	87.500	100.0%	0
יייייייייייייייייייייייייייייייייייייי	77.0	_1	3,9/9	9.8%	20 15	195 8,536	21.1%	485	17.6	28 022	KO 102	40.520	200 001	:
Total	1.199.074	476.319	152.96	20 30%	600	130 50 701	ļ.	100		20,022 05.170	02.170	40,000	*0.0%	D
			- m - (m -	2000		97,734	0% C:77	3,030	16.9	319.864	67.2%	476 310	100 000	AK KIND

Table 5.4-6 PROJECT COST OF MASTER PLAN FOR RURAL WATER SUPPLY

District	DDP by	Target		Piped Scheme	9	H	Hand Pump				Dug Well	- T		Total Cost
		Year		Number of Project Cost	Project Cost		Number Project Cost	roject Cost	Public	Private	Total	Number	Total Number Project Cost	(Mil.Rs.)
		-	Families	Families Schemes	(Mil.Rs.)	Families	of Pumps		Families	Families Families	Families	Of Wells	(Mil.Rs.)	(Mil.Rs.) Upto Year 2003
Kandy	This Study	2003	18,492	76	184.9	23,208	1,414	101.8	101.8 62,390 26,642 89,032	26,642	89,032	5,935	89.0	375.8
Nuwara Eliya	This Study	2003	13,216	131	132.2	0	0	0.0		41,121 13,345 54,466	54,466	3,631	54.5	186.6
Matale	This Study	2003	5,348	28	53.5	11,973	862	62.1	17,747	9,194	9,194 26,941	1,796	26.9	142.5
Ratnapura	UNDP	2001	22,058	N.A.	190.0	190.0 23,460	N.A.	73.0	50,920	1	1	N.A.	44.0	307.0
Kegalle	ADB	2010	9,410	N.A.	39.0	N.A.	357	15.0	N.A.	•		19,730	113.0	167.0
Badulla	UNDP	2001	15,000	N.A.	130.0	27,800	N.A.	86.0	24,838			N.A.	44.0	260.0
Monaragala	ADB	2010	17,530	N.A.	115.0	N.A.	596	36.0	N.A.	. •	1	11,510	78.0	229.0
Total	pares;		101,054	•	844.6	86,441	3,598	373.9	•	• • :	•	• ;	449.4	1,667.9
	**************************************												-	

Table 5.4-7 MASTER PLAN VOLUME FOR RURAL ELECTRIFICATION

			At	At Present						In 2003			ADB
District	Total	Domestic	Domestic Electrified Connected Electrification	onnected F	Slectrification	Number of	LV line	Estimated	Proposed	Proposed	Necessary	Proposed	Number
	Families	Consumer	Rate %	Rate	Available	Sub-stations	Length	Total	Electrified	Families to be	No.of RESS	LV line	of ADB
	(a)	(e)	(c) (100 x b/a)	(b)	Families (e) (b/d)	æ	(km) (g)	Families(h)	Rate % (i)	Electrified (j) (h x i/100 - e)	Schemes (k) (i/200)	Length(km) (k x g/f)	Proposed Schemes
Central													
Kandy	244,750	85,327	34.9%	0.565	151,021	483	483 2,249	273,714	72.5%	47,421	237	1,104	424
Nuwara Eliya	139,571	22,176	15.9%	0.530	41,842	342	693	155,332	66.5%	61,454	307	623	194
Matale	96,416	18,555	19.2%	0.449	41,325	182	718	107,399	59.8%	22,899	7	452	129
Sub-total	480,737	126,058	26.2%		234,188	1,007	3,660	536,445		131,775	659	2,178	747
Sabaragamuwa								-					
Ratnapura	192,561	40,926	21.3%	0.509	80,405	251	1,202	213,655	59.0%	45,652	228	1,093	373
Kegalle	171,644	31,083	18.1%	0.481	64,622	253	1,291	190,889	59.4%	48,766	24	1,244	267
Sub-total	364,205	72,009	19.8%		145,026	504	2,493	404,544		94,418	472	2,337	640
Uva													
Badulla	156,254	44,311	28.4%	0.535	82,824	361	1,441	173,763	64.5%	29,253	146	584	274
Monaragala	75,832	8,252	10.9%	0.399	20,682	86	438	84,322	52.4%	23,503	118	525	103
Sub-total	232,086	52,563	22.6%		103,506	459	1,879	258,085		52,756	264	1,109	377
Total	1,077,028	250,630	23.3%	ļ	482,720	1,970	8,032	1,199,074		278,949	1,395	5,625	1,764

ANTICIPATED YIELD LEVELS OF SELECTED CROPS Table 5.5-1

Crop	Varities	Agro-region	Potential Yield	Actual Yield	Possible Yield
Paddy	BG 400-1, BG 94-1, H-4, BG 272-6 B, BG 34-8, BG 379-2, BG 276-5	All	6.8	3.3	5.0
Maize Kurakkan	Bhadra-1 (finger millet)	DL; IL; IM DL	4.4-4.5 2.4	1.1	2.0
Cowpea	MI-35; Bombay Iita; Arlington	DL; IL; WL;IM WM	1.8-2.3	0.75	1.9
Greengram	MI-5; Type 77	DL; IL; WL;IM	2.1-2.2	0.72	2.0
Blackgram	MI-1	DL; IL; WL;IM	2.0	0.63	1.6
Groundnut	MI-1; No.45; X	DL; IL; WL;IM	2.3-3.2	1.1	1.9-2.4
Soybean	-14; Red Spanish PB-1; Bossier	•			
Soybean	rd-i, dussici	DL; IL; WL;IM	3.5-4.5	0.83	2.5-2.8
Bush Bean	Wade; Top Crop	All except WU	6-10	3.0	5.0
Pole Bean	Kentucky Wonder Green & Wax		9-12	4.5	8.0
Beet	Crimson Globe Detroit Dark Red	All	25-30	15	20.0
Brinjal	SM-164; Tinna- vely Purple; Jaffna Purple	DL; IL; WL; WM; IM	20-25	13.8	15.0
Capsicum	CA-8; Hungarian Yellow Wax	DL; IL; WL;IM WM	10-15	1.3	7.0
Cabbage	K-Y Cross; Talix Exotic FI	All	40-60	22	30.0
Carrot	Lanka Gova Cape Market; Top Weight	WU; IU	35-40	12.3	20.0
	Cape Market; Nantes Half Long	WM; IM	15-20	8	14.0
Cauliflower	Early Phenomena	WU; IU	6-9	n.a	
	Early Patna	WM; IM	6-9	n.a	
Cucumber	LY-58	Wet/Dry Zone	20-25	12,5	15.0
Leek	Large Long Summer	, WU; IU	30-40	18.6	30.0
Okra	MI-5; MI-7;VT	DL; IL; WL	16-18	4.0	10.0
Raddish	Keystone Japanese Ball;	IM, WM All	40-50	. 95	18.0
Audololi	Beeralu Rabu	All	40-50	7.5	10.0
Tomato	T-62; Roma; Maglobe	WL; IL; DL	20-30	10.6	16.0
	T-146; T-245 T-62	DM			
	T-146; T-245; T.89	IU			
Chilli	MI-1; MI-2	DL (Irrigated) (Rainfed)	2.5-3.5 (dry) 1.5-2.0 (dry)	1.4 0.7	1.8 1.0
Big Onion	Pusa Red; Bombay Red	DL	20-30	11.9	18.0
	Rampur Red				
Red Onion	Red Creole Jaffna Local	DL	15-20	11.5	13.0
	Vethalan				
Potato	Arka; Vikero; Cardinal; Isna;	WU; IW; DL	15-25	11.5	15.0
	Desiree; Seta; Krushi; SEI		• .		•

Source:

Crop Recommendations Technoguide, 1990, DOA. Technology Transfer Division, DOA Agricultural Implementation Programme, 1993, MADR

Table 5.5-2 CROP INTENSITY IN THE STUDY AREA

													<b></b> /	Unit: ha)
CENTRAL PROVINCE	OVINCE	Typent			SABARAGAMUWA PROVINCE	AMIUWA PI	ROVINCE			UVA PROVINCE	INCE			
Division	Avcage	Yala			Division	Avcage	Yala			Division	Annual Aveage	Extent		
	Area (X)	Cropped Area (Y)	(X-Y)	X/(X-Y)		Cropped Area (X)	Cropped Area (Y)	(X-X)	. (X-X)/X		Cropped Area	Cropped Area		
KANDY DISTRICT(1.891.3 sukm)	RICT(1.8	91.3 sakm)			RATNAPITRA DISTRIC	A DISTRIC	· -			BADILLE	BADIII I A DISTRICT	my00 0 608 C/		
Minipe	5,510	290	5,220	105.6%	Pelmadula	2.771	-	1.461	189.7%	Welmada	6.302	(4,022.0 syn.) 2.351	_	159 50%
Udadumbara	4,498	1,647	2,851	157.8%	Openayaka	1,172	546	626	187.2%	Uvaparanag	6.378	2.421	3.957	161.2%
Medadumbara	3,023	1,348	1,675	180.5%	Balangada	4.226	1.991	2.235	189.1%	Ella	1.192	429	763	156.2%
Pathadumbara	1,742	983	759	229.5%	Imbulpe	3,234	1,555	1.679	192.6%	Bandarawel	1.227	303	924	132.8%
Panwila	423	226	197	214.7%	Weligapola	4,003	2,076	1.927	207.7%	Passara	2.731	860	1.87	146.0%
Kundasale	1,300	7,5	653	199.1%	Kahawatta	1,132	563	569	198.9%	Ridimalivac	6,619	269	5.922	111.8%
Kandy	473	236	237	199.6%	Godakawelz	2,764	1,124	1.640	168.5%	Mecgahakit	2,586	673	1913	135.2%
Pathahewaheta	3,888	1.777	2,111	184.2%	Eheliyagoda	2,982	1,395	1,587	187.9%	Mahiyangar	7,355	2,424	4.931	149.2%
Haispatthuwa	1,525	<u>\$</u>	881	173.1%	Kuruwita	5,987	2,866	3,121	191.8%	Kandeketiv:	4,174	1.031	3.143	132.8%
Akurana	902	355	345	202.9%	Ratnapura	2,317	1,087	1,230	188.4%	Haliela	3,044	1.040	2.004	151.9%
Pujapitiya	2,007	1,019	886	203.1%	Elapatha	1,662	810	852	195.1%	Haputale	914	285	629	145.3%
Thumpane	2,704	1,374	1,330	203.3%	Ayagama	856	415	441	194.1%	Haldummul	2,387	954	1.433	96,6%
Yamuwara	3,042	1,546	1,496	203.3%	Nivithigala	1,741	829	912	190.9%	Badulla	808	341	468	172 9%
Udunuwara	3,021	1,507	1,514	199.5%	Kalawana	3,199	1.529	1.670	191.6%	Soranatota	1.696	476	1 220	139.0%
Udapalatha	2,245	1,055	1,190	188.7%	<b>Embilipitiys</b>	11,650	4,953	6.697	174.0%		47,414	14.285	33,129	143.1%
Pasbage	282	252	330	176.4%	Kolonna	5,519	1,433	4,086	135.1%	MONERAC	SALA DIST	RICT (5.659.	3 sakm)	<u>.</u>
Gangaihala K.	1,334	<b>6</b> 80	654	204.0%		55,215	24,482		179.7%	Madalla	2,063	96	1.967	104.9%
	38,017	15,586	,	169.5%		KEG/	<b>ALLE</b>	7	sqkm)	Wellassa	4,183	909	3,583	116.7%
	MATAL	MATALE DISTRIC	$\dot{\sim}$	sqkm)	Kegaile	2,427	1,200		197.8%	Medagama	2,258	234	2,024	111.6%
Matale	1,801	365	1,036	173.8%	Rambukkan	3,947	1,976		200.3%	Badaikumbi	2,253	533	1,720	131.0%
Rattota	1,413	745	999	211.5%	Mawanella	4,561	2,261	2,300	198.3%	Moneragala	1.802	126	1.676	107.5%
Ukuwela	1,917	729	1,188	161.4%	Aranayake	2,994	1,490	1,504	199.1%	Siyambalan	7,550	1,448	6.102	123.7%
Yatawaita		722	966	172.5%	Galigamuwa	2,654	1,306	1,348	196.9%	Buttala	5,166	1,287	3.879	133.2%
Ambanganga 1		516	858	160.1%	Warakapola	3,728	1,839	1,889	197.4%	Wellawaya	5,810	1,163	4,647	125.0%
Pallepola	2,372	1,091	1,281	185.2%	Ruwanwella	1,210	8	610	198.4%	Thanamalw	13,188	2,959	10,229	128.9%
Galewela	× 744	2,030	6,914	129.4%	Yatiyanthot	1,262	929	979	201.6%		44,273	8,446	35,827	123.6%
Dambulla	6,450	1,761	4,689	137.6%	Deraniyagal	432	228	204	211.8%					
Nawuia	3,220	1,021	2,199	146.4%	Dehiowita	1,034	522	512	202:0%					
Laggara	3,538	885	2,656	133.2%		24,249	12,058	12,191	198.9%					
Wigamuwa	7,629	2,668	4,961	153.8%										
	40,376	12,930	27,446	147.1%										
;	ž.	NUWARA-EI	7	RICT (1703.4 sqkm)	.4 sqkm)									
NEllya	5,191	2.814	2,377	218.4%					•					
Komale	1,788	736	1,052	170.0%										
Walapane	8,813	4,534	5,279	166.9%										
Unigatanena	77	200	797	156.1%										
nangurankens	20,407	10,000	8/4/6	153.9%										
	447.74	1/4/21	25,4	110.2%										

ENVIRONMENT PRESERVATION AND CONTROL PLAN (1/4) Table 5.6-1

	innia and Polata Protection (7£91) Ordinance Tomain Transce	0			0		0	0			
	Crown Lands Encroachment Ordinance (1947)	0					0				
	Sanc Gem Corporation Act (1951)	0	0	0							
ture	Wines and Minerals Law (1973)						0		·		
Legal Structure	Aganian Services Act (1978)					0		0	0	0	0
Lega	Pesticides Control Act (1980)										
	National Aquatic Resources Act (1881)	0			0						
	National Heritage and Wilderness Act (1987)					ļ	0				
	National Environment Act (1980), amended 1988)				0		ļ		ļ		
	National Conservation Strategy (1990)	0	0	0	0	0	0	0	0	0	0
	naly notice han a franction of the (0991)	0	0	0	0	0	0	0	0	0	0
	Strategy for Conservation	(i) Promotion of farm land conservation and watershed management.	(ii) Enhancement of the ongoing projects such as SALT Project	(iii) Introduction of payticipation of local people to soil erosion control projects and programs	(iv) Formulation of watershed management projects	(v) Control of shifting cultivation and inappropriate agricultural practices	(i) Establishment of land use plan	(ii) Enhancement of agro- forestry	(iii) Promotion of settlemnt or transmigration of local people	(iv) Introduction of live s tock and other agricultural activities	(v) Promotion of IRDP
	Target of Conscrvation	(a) Reduction of the area to be reated	(b) Implementation of soil conservation projects and programs	(c) Establishment of appropriate land use plan and its management			(a) Control of shifting cultivation (b) Establishment of proper land	use plan and its management			
	Causes and Effects	(1) Degradation of farm lands by inappropriate agricultural activities	(2) Acceleration of sediment loads of rivers and dams due to defferestation and	encroachment of reserves		1,100	(1) Acceleration of deforestation and soil erosion	(2) Encroachment of reserved areas	lands		
. Item	SSI SS	Soil Erosion			s	oonico	Shifting Cultivation				

Table 5.6-1

# ENVIRONMENT PRESERVATION AND CONTROL PLAN (2/4)

	·			<del></del>	· 1	- <del>1</del>	<del></del>	· · · · ·	3 -	
	Land Development Ordinance (1990)	0					0			
	Porost Oribinance (7£91)						0			
	Fauna and Flora Protection Ordinance (1937)						0,	0		
	Crown Lands Breroachment Ordinance (1947)						0			
	State Gem Corporation Act (1991)				0			0	0	
ture	Mines and Minerals Law (1973)						0			
Legal Structure	Agrarian Services Act (1978)								0	
Lega	Pesticides Control Act (1980)									0
	National Aquatic Resources Act (1981)									0
	National Heritage and Wildemess Act (1981)	·					0			
	National Environment Act (1980, amended 1988)									
	National Conservation Strategy (1990)	0	0	0	0	0	0	Ö	0	0
	National Environmental Action Plan (1990)	0	0	0	0	0	0	0	0	0
	Strategy for Conservation	(i) Delineation of landslide prone areas	(ii) Entablishment of warning and evacuation system	(iii) Resettlement of people living in landslide prone areas	(iv) Implementation of prevention measures	(v) Reconstruction of infrastructure in the damaged area	(i) Establishment of land use plan	(ii) Implementation of farm land conservation measures	(iii) Change of agricultural practices	(iv) Control of utilization of fertilizers and agrochemicals
	Target of Conservation	(a) Implementation of structural and non-structural prevention measures in the landslide	prone areas				(a) Achievement of sustainable production of tabacco and sugar cane	(b) Establishment of proper land use plan		
	Causes and Effects	(1) Damages to human life and social infrastructure (2) Immers on regional socreture					(1) Acceleration of soil erosion, declining fertility of land and deforestation	(2) Water pollution by utilization of fertilizers and asynchemicals	(3) Confliction between man and wildlife	
Item	Environmental Issues	Landslides			səəs	nosəşi pu	Mono-cropping of Tabacco and Sugar Cane			

Table 5.6-1

# ENVIRONMENT PRESERVATION AND CONTROL PLAN (3/4)

	Land Development Ordinance (0991)	0	0		0	0			
	Porest Oridinance (7£91)	0	0		0	0	0	0	0
	Faum and Flora Protection Ordinance (1937)				0		0	. 0	
	Crown Lands Encroachment Ordinance (1947)		0		0				
	State Gem Corporation Act (1951)			0				0	
ture	Mines and Minerals Law (1973)	0	0		0				
Legal Structure	15A səsivisə SeriningA (8791)					. 0			
Leg	Pesticides Control Act (1980)								
	National Aquatic Resources Act (1861)		0				0		
	Mational Heritage and Wilderness Act (1987)				0				
	National Environment Act (1980, amended 1988)								
	National Conservation Strategy (1990)	0	0	0	10	0	0	0	.0
	National Environmental Action Plan (1990)	0	0	0	0	0	0	0	0
• .	Strategy for Conservation	(i) Control of illegal gem mining	(ii) Delineation of gem mining prohibited areas	(iii) Promotion of rescarch and development of gem mining methods	(i) Establishment of land use plan and forestry development plan	(ii) Control of shifting cultivation and illicit deforestation	(iii) Promotion of proper management of forest lands	(iv) Implementation of reafforestation	(v) Promotion of community forestry
	Target of Conscrvation	(a) Extinction of illegal gem mining	(b) Introduction of environmentally sound gemmining methods	(c) Introduction of proper land use plan	Freeze of developmen existing dense forests	(b) Conversion of open forests into agricultural lands with careful environmental management	(c) Reafforestation of marginal lands covered by open forests	(d) Enhancement of sustainable use of forest plantation areas	
	Causes and Effects	(1) Acceleration of ground subsidence, slope instability and lowering groundwater	table (2) Siltation of river water		(1) Acceleration of soil erosion (2) Degradation of forest	(3) Encroachment of wildlife reserves			
J.	- s	Gem Mining	ızı Kesor	onìM	Deforestation	5001	rst Keson	આંગ્ય	

- 60 -

Table 5.6-1

ENVIRONMENT PRESERVATION AND CONTROL PLAN (4/4)

	Land Development Ordinance (1990)		0		·
	Forest Oridinance (TE91)		0		
	Fauna and Flora Protection Ordinance (1937)	0	0	0	0
	Crown Lands Encroachment Ordinance (1947)		0		
	State Gent Corporation Act (1991)				
ture	Mines and Minerals Law (1973)				
Legal Structure	Activina Services Act (8791)				
Lega	Pesticides Control Act (1980)				
	National Aquatic Resources Act (1981)				
	ZeorriabliW bins agerital HeinoiseV (7891) io A	0	0	0	0
	Mational Environment Act (1980, amended 1988)		0		
	Wational Conservation Strategy (1990)	0	0	0	0
	National Environmental Action Plan (1990)	0	0	.0	0
	Strategy for Conservation	(i) Establishment of management plan of reserves	(ii) Delineation of specific zones for wildlife conservation	(iii) Control of encroachment of reserves	(iv) Implementation of protection measures of farm lands
	Target of Conservation	(a) Extinction of encroachment of reserves	(b) Establishment of proper management of reserves		;
	Causes and Effects	(1) Degradation of forest, land, water and tourism resources	(z) Confliction between man and	wildlife	
Hall Hall	Environmental Issues	Encroachment of Reserves		Viierovil	ooia

61 -

# Table 5.6-2 LIST OF PROJECTS AND PROGRAMS TO BE IMPLEMENTED (1/4)

### A. Matale District

- 1) Etipola Kanda Conservation Programs of Etipola Kanda and Knuckeles Range: FD, LUPPD, DEA and CEA.
  - development and implementation of comprehensive conservation programs.

- establishment and execution of a long term integrated conservation plan.

2) Poppham Arboretum Management Project, FD, LUPPD, DEA and CEA. - establishment and execution of conservation plan of fauna and flora.

- 3) District Land Use Planning Project: District Government, FD, LUPPD, DEA and CEA.
   establishment of a long term integrated land use plan.
- 4) Programs for Promotion and Dissemination of Physical, Vegetative and Agronomic Soil Conservation Measures: NADSA, M/AR&D and DEA.

- promotion of soil erosion control measures among the local people,

- enforcement of capacity building for effective dissemination of control measures.
- 5) Environmental Impact Assessment Study for the Moragahakanda Dam Project: the Project Executing Agency, DEA and CEA.

- implementation of an overall impact assessment of the Project,

- preparation of appropriate mitigation measures against the negative impacts.
  6) Landslide Prone Area Mapping Project: National Building and Research Organization (NBRO).
  - mapping of landslide prone area and establishment of warning system,

- relocation of people living in landslide prone area.

7) Forest Management Program: FD.

- establishment of management plan of forestry,
- control of shifting cultivation and deforestation,
- enforcement of capability of forest management,

- capacity building and staff training system.

8) Reforestation Project around Reservoir: FD, LUPPD and DEA.

- reafforestation of the catchement area of tanks and reservoirs.

9) Fuel Wood Development Program for Tobacco Production: Ceylon Tobacco Company (CTC) and FD.

- research and development of fuel wood for tobacco production.

- 10) Programs for Capacity Building of District Environmental Management and Land Use Planning Unit: FD, LUPPD, DEA and CEA.
  - establishment and implementation of control and monitoring plan of environmental issues,

- enhancement of environmental management capability.

11) Programs for Environmental Education of the Local People: DEA, CEA and Department of Education.

- establishment and implementation of environmental education programs.

# B) Kandy District

- 1) District Land Use Planning Project: District Government, FD, LUPPD, DEA and CEA.
   establishment of a long term integrated land use plan.
- 2) Programs for Promotion and Dissemination of Physical, Vegetative and Agronomic Soil Conservation Measures: NADSA, M/AR&D and DEA.
  - development of effective erosion control measuers for tobacco growers,
  - promotion of soil erosion control measures among the local people,
  - enforcement of capacity building for effective dissemination of control measures.

# Table 5.6-2 LIST OF PROJECTS AND PROGRAMS TO BE IMPLEMENTED (2/4)

- 3) Agricultural Land Extension Control Programs in Steep Slope Area: NADSA, M/AR&D, LUPPD and DEA.
  - control of inadequate expansion of agricultural lands in steep slope area,

- curtailing of existing cultivation activities in steep slope area.

4) Reforestation Project of Degraded Forest Area: FD, LUPPD and DEA.

control of shifting cultivation and deforestation,
reafforestation of degraded area and marginal lands.

- 5) Programs for Capacity Building of District Environmental Management and Land Use Planning Unit: FD, LUPPD, DEA and CEA.
  - establishment and implementation of control and monitoring plan of environmental issues,

- enhancement of environmental management capability.

- 6) Programs for Environmental Education of the Local People: DEA, CEA and Department of Education.
  - establishment and implementation of environmental education programs.

# C) Nuwara Eliya District

- 1) Agricultural Land Extension Control Programs in Steep Slope Area: NADSA, M/AR&D, LUPPD and DEA.
  - control of inadequate expansion of agricultural lands in steep slope area,

- curtailing of existing cultivation activities in steep slope area.

2) Programs for Management of Encroachment Activities in Forest Area: FD, LUPPD, DEA and CEA.

- control of encroachment of forest areas.

3) District Land Use Planning Project: District Government, FD, LUPPD, DEA and CEA.
- establishment of a long term integrated land use plan.

4) Programs for Promotion and Dissemination of Physical, Vegetative and Agronomic Soil Conservation Measures: NADSA, M/AR&D and DEA.

- promotion of soil erosion control measures among the local people,

- enforcement of capacity building for effective dissemination of control measures.

5) Reforestation Project of Degraded Forest Area: FD, LUPPD and DEA.

- reafforestation of degraded area and marginal lands.

6) Programs for Enforcement of the Crown Land Ordinance: FD, LUPPD and DEA.

- preservation of forest area destruction by enforcement of regulations.

7) Landslide Prone Area Mapping Project: NBRO.

- mapping of landslide prone area and establishment of warning system,

- relocation of people living in landslide prone area,

- improvement of drains and other preventive structures.

- 8) Programs for Capacity Building of District Environmental Management and Land Use Planning Unit: FD, LUPPD, DEA and CEA.
  - establishment and implementation of control and monitoring plan of environmental issues,
  - enhancement of environmental management capability.

# Table 5.6-2 LIST OF PROJECTS AND PROGRAMS TO BE IMPLEMENTED (3/4)

## D) Badulla District

- 1) Programs for Stabilization of Activities of Shifting Cultivation: FD, LUPPD, DEA and M/AR&D.
  - change shifting cultivation to more stable forms of cropping.

2) Programs for Promotion of Community Forestry: FD and DEA.

- supplying fuel wood and timber to local people.

3) Agricultural Land Extension Control Programs in Steep Slope Area: NADSA, M/AR&D, LUPPD and DEA.

- control of inadequate expansion of agricultural lands in steep slope area,

- curtailing of existing cultivation activities in steep slope area.

4) Programs for Promotion and Dissemination of Physical, Vegetative and Agronomic Soil Conservation Measures: NADSA, M/AR&D and DEA.

- promotion of soil erosion control measures among the local people.

- enforcement of capacity building for effective dissemination of control measures.

5) Landslide Prone Area Mapping Project: NBRO.

- mapping of landslide prone area and establishment of warning system,

- relocation of people living in landslide prone area,

- improvement of drains and other preventive structures.

6) Programs for Capacity Building of DEA: DEA and CEA.

- enhancement of environmental management capability,

- promotion of supervision and monitoring,

- enforcement of coordination capability.

- 7) Programs for Environmental Education of the Local People: DEA, CEA and Department of Education.
  - establishment and implementation of environmental education programs,

- promotion of participation of local people to environmental management.

## E) Moneragala District

1) Programs for Involvement of Small Farmers to Soil Conservation; Provincial and District agencies, DEA, LUPP, NADSA and M/AD&R.

- control soil erosion with participation of local people.

2) Programs for Promotion of Community Forestry: FD and DEA.

- supplying fuel wood and timber to local people.

- 3) Programs for Stabilization of Activities of Shifting Cultivation: FD, LUPPD, DEA and M/AR&D.
  - change shifting cultivation to more stable forms of cropping.

4) Programs for Capacity Building of DEA: DEA and CEA.

- enhancement of environmental management capability,

- promotion of supervision and monitoring,

- enforcement of coordination capability.

- 5) Programs for Environmental Education of the Local People: DEA, CEA and Department of Education.
  - establishment and implementation of environmental education programs,
- promotion of participation of local people to environmental management.

  6) Conservation and Management Project of Fauna and Flora: FD, DEA, CEA and M/AD&R.

- management of confliction between man and elephant,

- establishment and implementation of a plan for conservation plan of fauna and flora.

# Table 5.6-2 LIST OF PROJECTS AND PROGRAMS TO BE IMPLEMENTED (4/4)

# F) Kegalla District

1) Programs for Natural Hazard Prevention: NBRO and DEA.

- mapping of landslide and flood prone area and establishment of warning system,

- relocation of people living in landslide prone area,

- improvement of drains and other preventive structures.

2) Programs for Promotion and Dissemination of Physical, Vegetative and Agronomic Soil Conservation Measures: NADSA, M/AR&D and DEA.

- promotion of soil erosion control measures among the local people,

- enforcement of capacity building for effective dissemination of control measures.

3) Reforestation Project of Degraded Forest Area: FD, LUPPD and DEA.

- reafforestation of degraded area and marginal lands.

4) Programs for Capacity Building of Environmental Management: DEA and CEA.

- enhancement of environmental management capability,

- promotion of supervision and monitoring,

- enforcement of coordination capability.

- 5) Programs for Environmental Education of the Local People: DEA, CEA and Department of Education.
  - establishment and implementation of environmental education programs,

- promotion of participation of local people to environmental management.

6) Programs for Promotion of Community Forestry: FD and DEA.

- supplying fuel wood and timber to local people.

7) Reforestation Project of Degraded Forest Area: FD, LUPPD and DEA.

- reafforestation of degraded area and marginal lands.

# G) Ratnapura District

- 1) Programs for Preparation of Long Term Environmental Management Plan: DEA and CEA.
  - guidelines for environmental protection,

- introduction of EIA system,

- establishment of institutional framework.

- 2) Environmental Management Project for Gem Mining: SGC, FD, LUPPD, DEA and CEA.
  - establishment of monitoring system, mapping of gem bearing areas,

- development of environmentally sound gem mining methods,

- rehabilitation of degraded lands.

3) Programs for Promotion and Dissemination of Physical, Vegetative and Agronomic Soil Conservation Measures: NADSA, M/AR&D and DEA.

- promotion of soil erosion control measures among the local people,

- enforcement of capacity building for effective dissemination of control measures.

4) Landslide Prone Area Mapping Project: NBRO.

- mapping of landslide prone area and establishment of warning system,

- relocation of people living in landslide prone area,

- improvement of drains and other preventive structures.

- 5) Programs for Capacity Building of Environmental Management Unit in Provincial Council: Provincial Council, DEA and CEA.
  - enhancement of environmental management capability,

- promotion of supervision and monitoring,

- enforcement of coordination capability.

- 6) Programs for Environmental Education of the Local People: DEA, CEA and Department of Education.
  - establishment and implementation of environmental education programs,
  - promotion of participation of local people to environmental management.

LIST AND PROFILE OF THE IDENTIFIED FARM LAND CONSERVATION SCHEMES IN THE UP-COUNTRY AREA (1/3) Table 5.6-3

	COLIDER														
·			Class2 (	30-60%	۱ ۱		Class3	(>60%)	- 1		Class8 (	30-60%	, .	Total	Priori
Name of Scheme	Division	11	S	F	Others	H	S	F	Others	Н	S	F		Area (h	•
I. Central Province		1		·			L.,	L				·		63,500	·
A. Matale															İ
Ma-1 Erawalagala FLC Scheme	Dambulta	0	0	100	200	Ö	0	0	0	. 0	. 0	. 0	. 0	300	l L
Ma-2 Nuwaragolla FLC Scheme	Dambulla	ő	200	600		0	0	. 0	0	0			0		
Ma-3 Mukulana FLC Scheme	Dambulla/Naula	0	0			0		500	100	0		700	0		
Ma-4 Dambagolia FLC Scheme	Naula	ŏ	100	400	-	Õ	0	0		0		. 0	ō		
Ma-5 Nikula FLC Scheme	Naula	0	0	. 0	_	0	ō	. 0	. 0	0	,	500	100		1
Ma-6 Naula FLC Scheme	Naula	ا ا	0	200		0	. 0	0	. 0	ō		400	100		
Ma-7 Melegala FLC Scheme	Naula/Galewela	ő	0	0		. 0		Õ	ő	. 0	500	300	0		
Ma-8 Galboda FLC Scheme	Naula	0	100	200		0	0	100	ŏ	0	500	0	0		
Ma-9 Opalgala FLC Scheme	Naula	100	100	100		0	0	0	0	0	100	100	Õ		1
Ma-10 Andawala FLC Scheme	Naula	0	300	0	-	0	0	. 0	Ö	100	300	0	0		4
Ma-11 Kiulewadiya FLC Scheme	Lagalla	ő	100	200	0	ŏ	Ů	. 0	Õ	. 0	100	100	Ů	1.	1
Ma-12 Puwakpitiya FLC Scheme	Lagaila		0	1,500	. 0	0	.0	. 0	ő	0	800	500	0	1	
Ma-13 Katupana FLC Scheme	Lagalla	ŏ	400	1,200	0	ŏ	100	1,000	Ö	. 0	1,000	400	200	4,300	i
Ma-14 Mousakanda FLC Scheme	Lagalia	0	0	200	· ŏ		100	200	. 0	0	100	100	0	-	
Ma-15 Gammaduwa FLC Scheme	Ambanganga Korale	100	100	300	100	0	0	200	. 0	. 0	00	100	300	1,000	•
Ma-16 Dangkanda FLC Scheme	Rattota	200	100	600	200	0	100	400	0	0	200	0	0	1.700	
Ma-17 Neluwakanda FLC Scheme	Rattota	300	0	. 0	200	ő	0	0	0	0	200	0	. 0	300	1
Ma-18 Matale FLC Scheme	Matale	100	100	300	. 0	0	0	200	0	200	0	0	. 0	900	L
Ma-19 Ukuwela FLC Scheme	Ukuwela	600	. 100	0	0	0	0	. 200	0	300	0	. 0	0	!	L
Sub Total	Okuwcia	1,400	1,500	6,100	690	. 0	300	2,400	100	600	4.100		700		
200 total		1,400	1,500	6,100	600	U	300	2,400	100	000	4,100	3,200	700	21,000	
		1	313	in ener			Class 2	r room	· 1	· · ·	Ol0 (	10 (00)		l	ر برما
B. Kandy		<del>                                     </del>	Class2 (	F	Others	н	Class3 (	F F	Others	н	Class8 (: S	30-0070, [7		Total Area (ha	Priori
Ka-1 Kandegama FLC Scheme	Minipe	0	100	400	Outers1	0.	0	500	Oileis]	0	500	1,300	200	3,000	
Ka-2 Kikaweta FLC Scheme	Udadumbara	0	400	2,200	100	0	100	2,900	. 0	. 0	. 0	1,300	100	- 1	ŧ
Ka-3 Madugoda FLC Scheme	Udadumbara	400	300	300	200	100	200	100	.0	200	900	300	700	5,900 3,700	H
Ka-4 Dewahandiya FLC Scheme	Udadumbara		100	100											
Ka-5 Kosgama FI.C Scheme	Panwila	0	100	700	0	0	0	100 200	0	0	1,100	1,000	200 0	2,600 900	Н
Ka-6 Rangala FLC Scheme	Medadumbara	500	0	0	0	100	0	200	0	0	. 0	0	0		H
Ka-7 Mirisketiya FLC Scheme	Medadumbara	0	0	600	0	200	200	100	0	0	0	.0	0	.600 1,100	H
Ka-8 Urugala FLC Scheme	Medadumbara	0	200	0.00	. 0	100	200	100	0	0	100	0	0	400	H
Ka-9 Pitigoda FLC Scheme	Medadumbara	100	200	. 0	. 0	0	0	0	0				300		
Ka-10 Narapassawa FLC Scheme	Kundasale	200	200	0	0	600	0	0	. 0	0	1,000	600 0		2,200	<b>}</b>
	Akurana	500	. 0	0	. 0		0	-	_	-	-		0	800	L
Ka-12 Damunupola FLC Scheme	Tumpane	400	. 0	0	0	200 300	0	0	0	0	0	0	0	700	Ł
	•		-					0	-	0	200	_	0	900	I.
Ka-13 Kolugala FLC Scheme	Tumpane	600	0	0	0	100	0	0	0	0	0	0	0	700	. L
Ka-14 Udawela FLC Scheme	Yatinuwara	100	100	0	. 0	0	0	0	0	100	200	. 0	0	500	L
Ka-15 Sooriyagoda FLC Scheme	Yatinuwara/Kandy	200	0	100	0	200	0	0	0	0	100	0	0	600	L
Ka-16 Elikewela FLC Scheme	Pathahewaheta	400	0	. 0	100	500	400	0	0	0	200	0	0	1,600	M
	Udaparatha	100	100	0	. 0	200	100	0	0	0	200	0	0	700	H
Ka-17 Bopitiya FLC Scheme	11.4	300	200	. 0	0	300	0	0	0	100	400	0	0	1,300	Н
Ka-18 Pussellawa FLC Scheme	Udaparatha	_		_	_										
Ka-18 Pussellawa FLC Scheme Ka-19 Keragala FLC Scheme	Gangaihala Korale	0	0	0	. 0	200	200	200	0	0	100	0	0	700	M
Ka-18 Pussellawa FLC Scheme Ka-19 Keragala FLC Scheme Ka-20 Udahentenna FLC Scheme	Gangaihala Korale Gangaihala Korale	100	·o	. 0	0	400	100	0	0	0	100	0	0	700	M
Ka-18 Pussellawa FLC Scheme Ka-19 Keragala FLC Scheme Ka-20 Udahentenna FLC Scheme Ka-21 Patitalawa FLC Scheme	Gangaihala Korale Gangaihala Korale Gangaihala Korale	100 200	100	0	0 0	400 200	100	0	. 0 0	0	100 300	0	0	700 800	M M
Ka-18 Pussellawa FLC Scheme Ka-19 Keragala FLC Scheme Ka-20 Udahentenna FLC Scheme Ka-21 Patitalawa FLC Scheme Ka-22 Hangranoya FLC Scheme	Gangaihala Korale Gangaihala Korale	100	·o	. 0	0	400	100	0	0	0	100	0	0	700	M

Table 5.6-3 LIST AND PROFILE OF THE IDENTIFIED FARM LAND CONSERVATION SCHEMES IN THE UP-COUNTRY AREA (2/3)

		C	lass2 (3	30-60%)			Class3 (	>60%)	. 1	(	Class8 (3	0-60%)	. ]	Total	Priority
Name of Scheme	Division	Н	S	F	Others	н	S	Ŀ	Others	11	S	F	Others	Area (ha	1)
C. Nuwara Eliya District															
Nu-1 Teripeha FLC Scheme	Walapane	0	0	0	0	0	0	0	0	0	0	200	1,100	1,300	П
Nu-2 Pannata FLC Scheme	Walapane	0	0	0	0	0	0	0	0	0	200	300	500	1,000	11
Nu-3 Yatimadura FLC Scheme	Walapane	300	. 0	0	0	0	200	200	100	0	0	0	0	800	H
Nu-4 Ragala FLC Scheme	Walapane	200	0	0	200	200	100	0	0	0	0	0	0	700	н
Nu-5 Valikadatenna FLC Scheme	Hanguranketa	0	300	0	0	0	0	0	0	100	300	0	0	700	H
Nu-6 Happuwara FLC Scheme	Hanguranketa	0	0	0	0	0	0	0	0	0	0	100	300	400	11
Nu-7: Ubawatta FLC Scheme	Hanguranketa	300	0	0	0	0	0	0	0	600	0	100	0	1,000	н
Nu-8 Eliamulle FLC Scheme	Hanguranketa	200	200	400	0	0	0	600	0	100	0	0	0	1,500	н
Nu-9 Maturata FLC Scheme	Hangurankela	300	0	0	0	0	0	0	200	0	0	0	0	500	H
Nu-10 Bogawana FLC Scheme	Nuwara Eliya	0	0	700	100	. 0	0	- 0	100	0	0	0	0	900	11
Nu-11 Galaboda FLC Scheme	Ambagamuwa	0	0	900	0	0	0	. 0	0	0	0	0	0	900	11
Nu-12 Bulatwatta FLC Scheme	Ambagamuwa	100	100	200	200	0	0	0	0	0	. 0	. 0	0	600	Н
Sub Total		1.400	600	2.200	500	200	300	800	400	800	500	700	1.900	10.300	

•		L	Class2 (3	30-60%	)	l	Class3 (	>60%)	1		Class8 (	30-60%		Total	Priority
		H	S	F	Others	H	S	F	Others	Н	S	F	Others	Arca (ha	.)
II. Uva Province														32,600	
D. Badulla District															
Ba-1 Ekiriyankumbura FLC Schen	n Ridimaliyadda	0	0	0	0	0	0	0	0	. 0	500	500	0	1,000	L
Ba-2 Guligamuwa FLC Scheme	Ridimaliyadda	0	0	0	0	0	0	0	0	200	400	900	300	1,800	L
Ba-3 Migahakivula FLC Scheme	Migahakivula	200	0	0	0	0	0	0	0	200	1,000	300	300	2,000	L
Ba-4 Taldena FLC Scheme	Soranatola	100	100	0	0	100	0	0	100	100	1,000	200	200	1,900	M
Ba-5 Galbokkegama FLC Scheme	Soranatota/Haliela	600	100	0	0	0	. 0	0	0	0	0	0	0	700	М
Ba-6 Kandaketiya FLC Scheme	Kandaketiya	100	100	0	0	0	0	0	0	200	1,500	100	200	2,200	H
Ba-7 Pathagala FLC Scheme	Kandaketiya	0	0	0	0	0	0	0	0	0	1,300	600	500	2,400	Ħ
Ba-8 Ketawela FLC Scheme	Haliela	400	100	0	0	0	0	0	0	100	100	0	0	700	13
Ba-9 Kairatnagama FLC Scheme	Haliela	200	200	0	0	200	0	0	0	0	0	0	0	600	H
Ba-10 Edandupola FLC Scheme	Haliela	300	100	0	0	0	0	0	0	100	100	0	0	- 600	H
Ba-11 Yalagamuwa FLC Scheme	Uvaparanagama	300	200	0	0	300	100	0	0	200	100	0	0	1,200	M
Ba-12 Galgeweis FLC Scheme	Uvaparanagama	400	0	0	0	400	0	0	0	0	0	0	0	800	M
Ba-13 Nawalagama FLC Scheme	Ella	500	100	0	0	100	100	0	0	0	0	0	0	800	L
Ba-14 Dodangolla FLC Scheme	Ella	0	Q	. 0	0	0	0	300	300	0	300	100	200	1,200	L
Ba-15 Hakgala FLC Scheme	Welimada	400	0	0	0	300	100	0	0	0	100	0	0	900	H
Ba-16 Ohiya FLC Scheme	Welimada	200	0	0	700	100	0	0	200	100	. 0	0	0	1,300	H
Ba-17 Manikawatte FLC Scheme	Bandarawela	600	. 0	0	0	0	0	0	0	0	0	0	0	600	ī,
Ba-18 Harankadawa FLC Scheme	Haldummulla	300	0	0	. 0	. 0	0	0	0	100	600	0	0	1,000	H
Ba-19 Baduludela FLC Scheme	Haldummulla	0	0	0	0	0	0	0	0	0	0	1,200	0	1,200	Н
Sub Total		4,600	1,000	0	700	1,500	300	300	600	1,300	7,000	3,900	1,700	22,900	-

Table 5.6-3 LIST AND PROFILE OF THE IDENTIFIED FARM LAND CONSERVATION SCHEMES IN THE UP-COUNTRY AREA (3/3)

i	+ 1	1 0	Class2 (.	30-60%	)	or f	Class3	(>60%)			Class8 (	30-60%)		Total	Priority
Name of Scheme	Division	H.	S	ſ	Others	Н	S	F	Others	Ш	S	F	Others	Area (h	a)
III. Sabaragamuwa Province														27,500	)
F. Kegalla													1		
Ke-1 Mawela FLC Scheme	Mawanella	500	0	0	0	0	, 0		0	300	0	0	0	800	) M
Ke-2 Golinda FLC Scheme	Kegalla	500	. 0	0	0	200	. 0		0	0	0	0	0	.700	L
Ke-3 Aranayaka FLC Scheme	Aranayaka	200	100	. 0	. 0	100	0	0	0	0	300	0	0	700	L
Ke-4 Kanangomuwa FLC Scheme	Galigamuwa	500	100	0	0	100	0		0	- 0	100	0	0	800	l L
Ke-5 Pelanpitiya FLC Scheme	Yatiyantola	0.	0	0	0	900	- 0		0	. 0	. 0	0	0	900	H
Ke-6 Dodawatta FLC Scheme	Deraniyagala	200	100	0	0	0	. 0		0	300	200	0	0	. 800	n n
Ke-7 Tembiliyana FLC Scheme	Dehiowita	200	100	0	0	200	0		) 0	0	0	0	.0	500	) н
Sub Total		2,100	400	0	0	1,500	0		0	600	600	0	. 0	5,200	-

			Class2 (	30-60%)			Class3	(>60%)			Class8 (	30-60%)		Total	Priority
G. Ratnapura District		11	S	r	Others	Н	s	13	Others	H	S	F	Others	Area (ha	)
Ra-1 Halpe FLC Scheme	Imbulpe	0	400	0	300	0	200	400	100	0	0	0	. 0	1,400	H
Ra-2 Medawela FLC Scheme	Imbulpe	200	300	100	.0	0	0	100	200	0	0	0	0	900	н
Ra-3 Halwaturakanda FLC Schem	e Ratnapura	0	100	100	. 0	0	200	300	0	0	0	0	0	700	н
Ra-4 Kiragola FLC Scheme	Kuruwita	0	100	0	0	0	0	0	0	100	900	0	0	1,100	М
Ra-5 Nugadanda FLC Scheme	Kuruwita	100	0	0	0	600	100	0	0	100	0	0	0	900	М
Ra-6 Openayaka FLC Scheme	Openayaka	200	0	100	0	0	300	400	0	0	0	100	0	1.100	L
Ra-7 Kuttapitiya FLC Scheme	Pelmadulla	0	200	200	0	200	400	1,100	0	0	300	0	200	2,600	н
Ra-8 Dela FLC Scheme	Pelmadulla	0	0	0	0	100	0	300	100	0	0	0	0	500	H.
Ra-9 Ayagama FLC Scheme	Ayagama	0	100	0	0	300	500	0	100	0	200	0	0	1,200	М
Ra-10 Gendagala FLC Scheme	Ayagama/Kalawana	0	100	0	0	0	200	300	0	100	0	100	0	800	M
Ra-11 Galpaya FLC Scheme	Weligapola	0	0	0	0	0	0	0	0	500	900	. 0	0	1,400	L
Ra-12 Tittawelpola FLC Scheme	Embilipitiya	0	0	0	0	0	0	0	0	300	100	0	0	400	Ł
Ra-13 Welenewatta FLC Scheme	Embilipitiya	0	0	0	0	0	0	0	0	0	800	0	O.	800	L
Ra-14 Dondonell FLC Scheme	Godakawela	0	0	0	0	0	400	300	0	. 0	0	0	0	700	L
Ra-15 Delwala FLC Scheme	Nivitigala	0	0	200	0	100	. 200	300	100	0	ó	0	0	900	L
Ra-16 Rambuka FLC Scheme	Kahawatta/Kalawana	. 0	200	100	0	0	300	1,100	100	.0	200	. 0	0	2,000	L
Ra-17 Mipagama FLC Scheme	Kalawana	. 0	0	0	0	0	0	300	0	0	400	0	0	700	н
Ra-18 Denuwakanda FLC Scheme	Kalawana	100	100	0	0	0	400	500	0	. 0	0	100	. 0	1,200	- н
Ra-19 Pallekanda FLC Scheme	Kolonna	0	0	. 0	0	0.	100	0	0	0	700	. 0	0	800	L.
Rs 20 Gilgarron FLC Scheme	Kolonna	0	100	100,	0	0	0	300	0	0	. 0	100	0	600	L.
Ra-21 Ittekanda FLC Scheme	Kolonna	0	0	0	0	0	500	200	0	. 0	200	0	0	900	l
Ra-22 Morawadiya FLC Scheme	Kolonna	. 200	100	0	0	400	0	. 0	0	0	0	0	0	700	L
Sub Total		800	1,800	900	300	1,700	3,800	5,900	700	1,100	4,700	400	200	22,300	
Up-country Total		14,700	7,900	17,000	2,600	8,600	6,400	16,600	2,300	4,800	23,700	12,400	6,600	123,600	

note: 1) Land Use

source: JICA Study Team

H: Homestead; Paddy, continuous plots of annual and tree crops excluding plantation estates, and residential units surrounded by gardens.

<sup>5:</sup> Sparsely used; Shifting cultivation, abandoned tea and rubber land, and sparsely used rainfed crop land such as tobacco and other annual crops.

F: Forest; Dense and open forest including man-made forest.

O: Others; Scrub land, grass land and barren land.

<sup>2)</sup> Priority

H: Scheme which has relatively high priority and is included in the Master Plan.

M: Scheme which has relatively medium priority and is not included in the Master Plan.

L: Scheme which has relatively low priority and is not included in the Master Plan.

Table 5.6-4 AREAS TO BE CONSERVED BY DIVISION AND ITS PRIORITY (1/2)

Item	Total			raas ta ba	Conn					
Item	Area	Class 2	А	reas to be Class 3	Conse	rvea Class 8		Total		Pri'ty
Division	(km2)	(km2)	(%)	(km2)	(%)	(km2)	(%)	(km2)	(%)	Division
I. Central Province	5,590	739	13	237	4	322	6	1,298	23	-
A) Matale District	1,995	165	8	33	2	102	5	300	15	-
1 Galewela	188	3	2	1	1	10	5	14	8	L
2 Dambulla	443	16	4	4	. 1	12	3	32	7	M
3 Naula	335	24	7	5	1	20	6	49	15	M
4 Pallepola	73	4	5	0	0	6	8	. 10	13	L
5 Yatawatta	63	9	14	1	2	2	3	12	19	L
6 Matale	69	4	6	1	1	1	1	6	8	L
7 Ambanganga Korale	51	14	28	1	2	. 5	10	20	40	L
8 Laggala	331	38	11	15	5	34	10	87	26	· H
9 Wilgamuwa	270	2	1	0	이	2	1	4	1	L
10 Rattota	87	34	39	4	5	5	6	44	50	M
11 Ukuwela	85	17	20	0	0	6	7	23	27	M
B) Kandy District	1,891	345	18	152	8	169	- 9	665	35	_
1 Pujapitiya	55	11	20	1	2	0	ó	12	22	L
2 Akurana	32	10	31	0	ō	ŏ	ŏ	10	31	Ľ
3 Pata Dumbara	45	. 5	11	0	0	0	0	5	11	Ĺ
4 Panwila	.95	32	34	23	24	3	3	58	61	H
5 Udadumbara	290	60	21	31	11	51	18	142	49	·H
6 Minipe	223	.18	8	12	5	23	10	53	24	H
7 Medadumbara	180	59	33	14	8	25	14	98	55	H
8 Kundasale	83	7	8	2	2	1	1	10	12	L
9 Kandy	45	. 7	16	0	0	2	4	9	20	L
10 Harispattuwa	46	4	9	0	0	0	0	4	9	L
11 Tumpane	113	21	19	16	14	2	2	39	35	M
12 Yatinuwara	70	5	7	2	3	6	9	13	19	L
13 Udunuwar:	65	3	5	. 2	3	2	3	7	11	L
14 Pathaliewa ieta	156	29	19	10	6	7	4	46	29	. M
15 Udapalata	180	23	13	15	8	17	9	55	31	Н
16 Gangaihaia Korale 17 Pasbage Korale	95 120	24 25	25 21	14	15	8	8	46	49	M
17 rasbage Kulaie	120	23	21	11	9	23	19	59	49	Н
C) Nuwara Eliya District	1,703	230	13	53	3	51	3	333	20	-
1 Kotmale	212	50	24	3	1	0	0	53	25	Н
2 Hanguranketa	230	42	18	11	5	17	7	70	31	Н
3 Walapane	306	22	7	23	8	23	8	68	22	H
4 Nuwara Eliya	479	61	13	6	1	5	1	72	15	Н
5 Ambagamuwa	477	55	12	9	2	6	1	70	15	Н
II. Uva Province	8,481	356	4	190	2	319	4	865	10)	
D) Badulla District	2,822	233	8	110	4	225	8	569	20	-
1 Mahiyangana	620	0	ol	0	0	8	i	8	1	L
2 Ridimaliyadda	424	0	0	0	0	42	10	42	10	M
3 Migahakiwula	101	2	2	0	0	23	23	25	25	L
4 Kandaketiya	157	6	4	5	3	47	30	58	37	H
5 Uva Paranagama	133	19	14	8	6	6	5	<b>33</b> .	25	M
6 Haliela	166	47	28	6	4	6	4	59	.35	H
7 Sorannatota	68	11	16	3	4	15	22	29	42	L
8 Passara	270	27	10	19	7	9	3	55	20	H
9 Badulla	52	19	37	11	21	0	0	30	58	M
10 Ella	106	19	18	11	10	5	5	35	33	M
11 Bandarawela	70	11	16	. 5	7	3	4	19	27	L
12 Haputale 13 Welimada	43	17	39	5	12	3	7	25	58	L
14 Haldummulla	180 431	33 22	18	8	4	8	4	49	27	Н
* CTEMORITHING	451	22	- 5	30	7	50	12	102	24	Н
	•		•		1		ı		1	

Table 5.6-4 AREAS TO BE CONSERVED BY DIVISION AND ITS PRIORITY (2/2)

Item	Total		. А	reas to be	Conse	erved				
	Area	Class 2	Ĩ	Class 3		Class 8	۱ ا	Total		Pri'ty
	(km2)	(km2)	(%)	(km2)	(%)	(km2)	(%)	(km2)	(%)	Division
TO Manage to District	5 (50	· · · · · · · · · · · · · · · · · · ·		90		93	·	296	5	
E) Moneragala District	5,659	123	: 2	80	l		2		12	Н
1 Madulia	723	41	6	33	5	11	2	84		
2 Bibile	484	8 2	2 1	6	1 0	19	4 11	33	7	M
3 Medagama 4 Badalkumbura	254 255	14	5	0	0	27 17	7	28 31	11 12	L M
* .		14	5	9	4	.9.	4	32	13	M M
5 Moneragala 6 Siyabalanduwa	255 1,049	17	2	22	2	2		41	4	M
7 Buttala	564	. 3	1	0	0	0	- 0	3	1	L
8 Wellawaya	719	15	2	5	1	8	1	28	4	L. L
9 Tanamalwila	1,357	11	1	5	o	0	o	16	1	L
7 Tallamaiwila	1,537		11	,	νį	v	્ય	10	1	ь
III. Sabaragamuwa Provi	4,917	516	10]	370	8	186	4	1,072	22	-
F) Kegalle District	1,641	294	18	77	5	75	5	445	27	-
I Rambukkana	125	15	12	5	4	0	0	20	16	L
2 Mawanella	108	18	17	. 7	6	ì	1	26	24	L
3 Aranayake	117	-8	7	4	3	4	3	16	13	L
4 Galigamuwa	148	- 25	17	3	2	5	3	33	. 22	М
5 Kegalle	105	14	13	. 0	0	1	1	15	14	L
6 Warakapola	197	16	8	5	.3	2	1	23	. 12	L
7 Ruwanwella	145	38	26	8	6	4	3	50	35	M
8 Yatiyantota	246	41	17	22	9	23	9	86	35	Н
9 Deraniyagala	218	61	28	13	6	25	11	99	45	Н
10 Dehiowita	233	59	25	9	4	. 11	5	79	34	H
G) Ratnapura District	3,275	223	7	294	9	111	3	627	19	_
1 Eheliyagoda	128	15	12	11	9	0	ő	26	21	L
2 Kuruwita	259	17	7	19	7	11	4	47	18	M
3 Ramapura	319	41	13	52	16	8	3	101	32	Н
4 Imbulpe	231	34	15	39	17	. 8	3	81	35	H
5 Balangoda	272	6	2	6	2	5	2	17	6	L
6 Pelmadulla	145	22	15	22	15	9	6	53	37	H
7 Nivitigala	155	13	8	14	9	2	ĭ	29	18	L
8 Kahawatta	105	5	5	8	8	Õ	ó	13	13	Ĺ
9 Elapatha	95	9	9	11	12	ŏ	ő	20	21	L
10 Ayagama	150	11	7	20	13	8	5	39	26	M
11 Kalawana	398	23	6	50	13	9	2	82	21	Н
12 Godakawela	167	3	2	8	5	ó		11	7	L
13 Opanayaka	77	8	10	13	17	3	4	24	31	Ĺ
14 Weligapola	204	6	3	5	2	20	10	31	15	M
15 Embilipitiya	376	ő	ő	0	0	19	5	19.	5	L
16 Kolonna	194	9	5	15	8	9	5	33	17	M
. o . rotolina	''		<u> </u>	*57	J		]	, 33	•	
			Ì							
Grand Total	18,988	1,611	8	797	4	827	4	3,235	17	-

note: Class 2: Areas where are now intensively used and careful soil management is needed with slope of 30-60 %,

Class 3: Areas where are now intensively used, but these should not normally used with slope of more than  $60\,\%$ .

Class 8: Areas where now under-utilized, but these are unsuitable for smallholder settlement and most parts suitable for forestry plantations or tree crops under supervised estate conditions with slope 30-60%.

source: Land Use Policy Planning Division modified by the JICA Stuty Team

Table 5.6-5 FARM LAND CONSERVATION SCHEME AND ITS INDICATIVE COST FOR THE MASTER PLAN

			Total	Indive Cost
	Name of Scheme	Division	Area (ha)	(mil. Rs.)
I. Central	Province		42,800	<del></del>
A. Matalo	ė		8,300	1 ' 4
Ma-11	Kiulewadiya FLC Scheme	Lagalla	500	21
Ma-12	Puwakpitiya FLC Scheme	Lagalla	2,800	9
Ma-13	Katupana FLC Scheme	Lagalla	4,300	97
Ma-14	Mousakanda FLC Scheme	Lagalla	700	3
B. Kandy			24,200	
Ka-1	Kandegama FLC Scheme	Minipe	3,000	t I
Ka-2	Kalkawata FLC Scheme	Udadumbara	5,900	1 1
Ka-3	Madugoda FLC Scheme	Udadumbara	3,700	
Ka-4 Ka-5	Dewahandiya FLC Scheme	Udadumbara Panwila	2,600	1
Ka-5	Kosgama FLC Scheme Rangala FLC Scheme	Medadumbara	900	1
Ka-7	Mirisketiya FLC Scheme	Medadumbara	1,100	1 1
Ka-8	Urugala FLC Scheme	Medadumbara	400	1 1
Ka-9	Pitigoda FLC Scheme	Medadumbara	2,200	1
Ka-17	Bopitiya FLC Scheme	Udaparatha	700	1 1
Ka-18	Pusseliawa FLC Scheme	Udaparatha	1,300	
Ka-22	Hangranoya FLC Scheme	Pashage Korale	1	
Ka-23	Templestowe FLC Scheme	Pasbage Korale	1,100	i I
C. Nuwar	a Eliya District		10,300	<del></del>
Nu-1	Teripeha FLC Scheme	Walapane	1,300	10
Nu-2	Pannala FLC Scheme	Walapane	1,000	7
Nu-3	Yatimadura FLC Scheme	Walapanc	800	153
Nu-4	Ragala FLC Scheme	Walapane	700	141
Nu-5	Valikadatenna FLC Scheme	Hanguranketa	700	
Nu-6	Happuwara FLC Scheme	Hanguranketa	400	1
Nu-7	Ubawatta FLC Scheme	Hanguranketa	1,000	152
Nu-8	Eliamulle FLC Scheme	Hanguranketa	1,500	146
Nu-9	Maturata FLC Scheme	Hanguranketa	500	152
Nu-10	Bogawana FLC Scheme	Nuwara Eliya	900	2
Nu-11 Nu-12	Galaboda FLC Scheme Bulatwatta FLC Scheme	Ambagamuwa	900	2
II. Uva Pro	<del></del>	Ambagamuwa	16,000	1,204
D. Badulla			10,900	1,161
Ba-6	Kandaketiya FLC Scheme	Kandaketiya	2,200	34
Ba-7	Pathagala FLC Scheme	Kandaketiya	2,400	11
Ва-8	Ketawela FLC Scheme	Haliela	700	220
Ba-9	Kairatnagama FLC Scheme	Haliela	600	180
Ba-10 .	Edandupola FLC Scheme	Haliela	600	170
Ba-15	Hakgala FLC Scheme	Welimada	900	260
Ba-16	Ohiya FLC Scheme	Welimada	1,300	123
Ba-18	Harankadawa FLC Scheme	Haldummulla	1,000	151
Ba-19	Baduludela FLC Scheme	Haldummulla	1,200	10
E. Monera	-		5,100	43
Mo-I	Blungoda FLC Scheme	Madulla	1,300	5
Mo-2	Idambowa FLC Scheme	Madulla	1,100	4
Mo-3 Mo-4	Dambagola FLC Scheme	Madulla	1,400 1,300	9
	Rathugala FLC Scheme gamuwa Province	Madulla	10,200	25 926
F. Kegalia	•		2,200	461
Ke-5	Pelanpitiya FLC Scheme	Yatiyantota	900	180
Ke-6	Dodawatta FLC Scheme	Deraniyagala	800	121
Ke-7	Tembiliyana FLC Scheme	Dehiowita	500	160
	ura District		8,000	465
Ra-1	Halpe FLC Scheme	Imbulpe	1,400	85
Ra-2	Medawela FLC Scheme	Imbulpe	900	163
Ra-3	Halwaturakanda FLC Scheme	Ratnapura	700	23
Ra-7	Kuttapitiya FLC Scheme	Pelmadulla	2,600	92
Ra-8	Dela FLC Scheme	Pelmadulla	500	23
Ra-17	Mipagama FLC Scheme	Kalawana	700	3
Ra-18	Denuwakanda FLC Scheme	Kalawana	1,200	76
	Up-country Total	1	69,000	4,652

source: JICA Study Team

# **FIGURES**

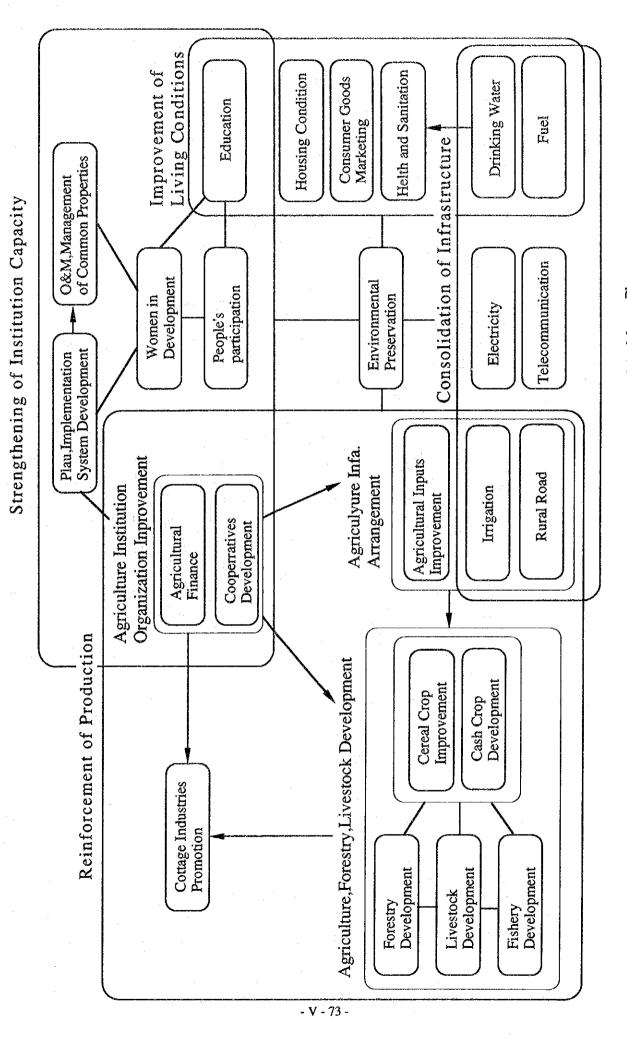
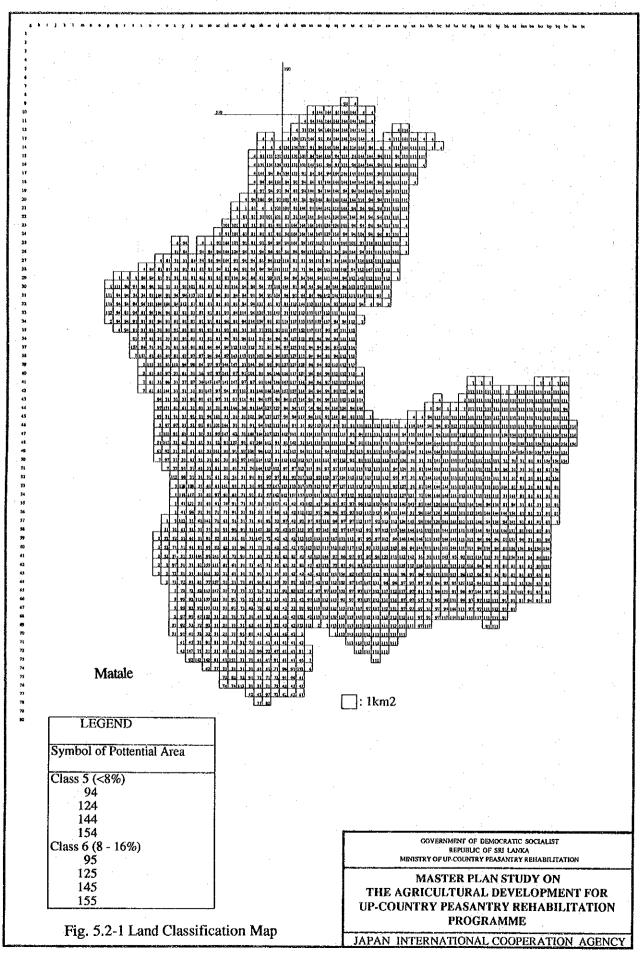
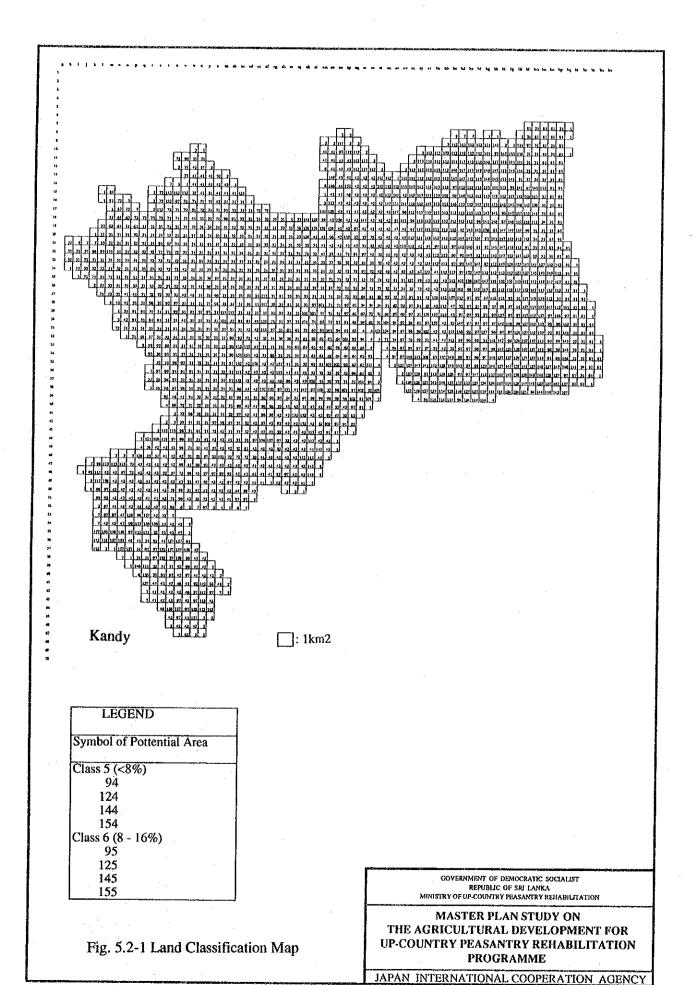
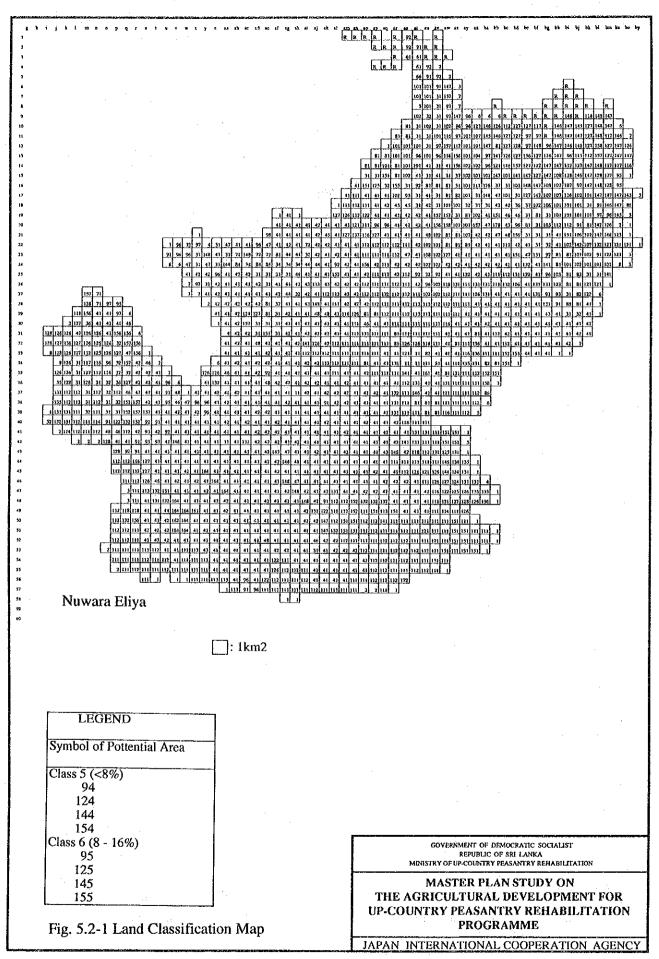
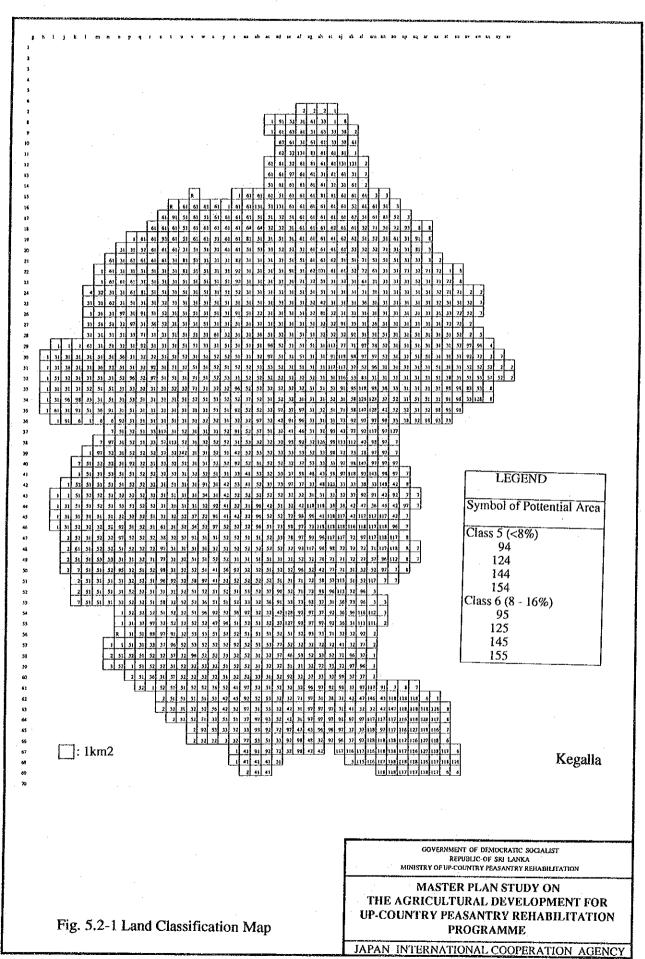


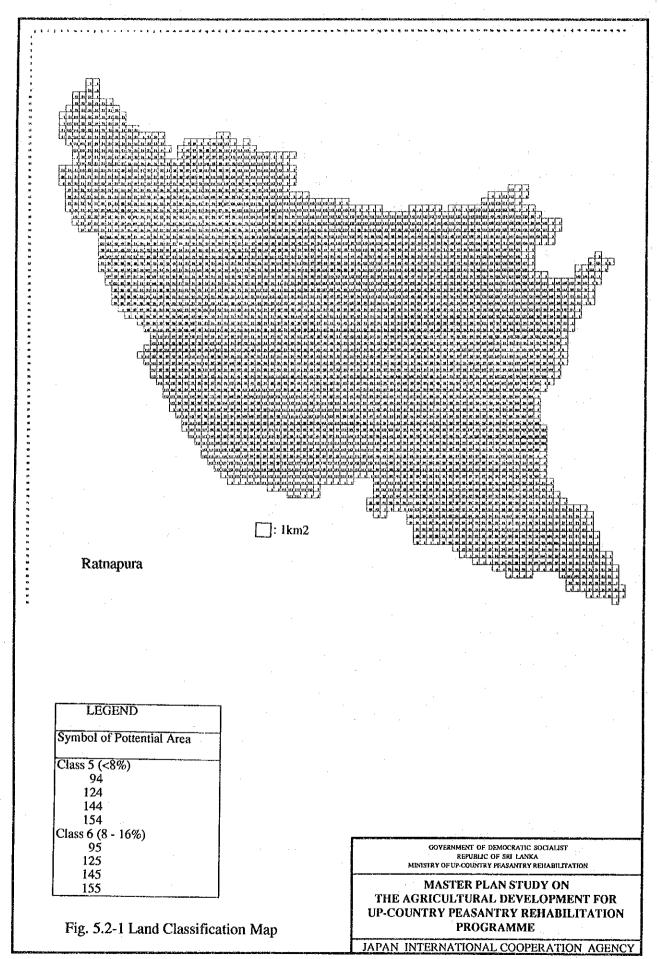
Fig. 5.1-1 Conceptual Picture of the Master Plan

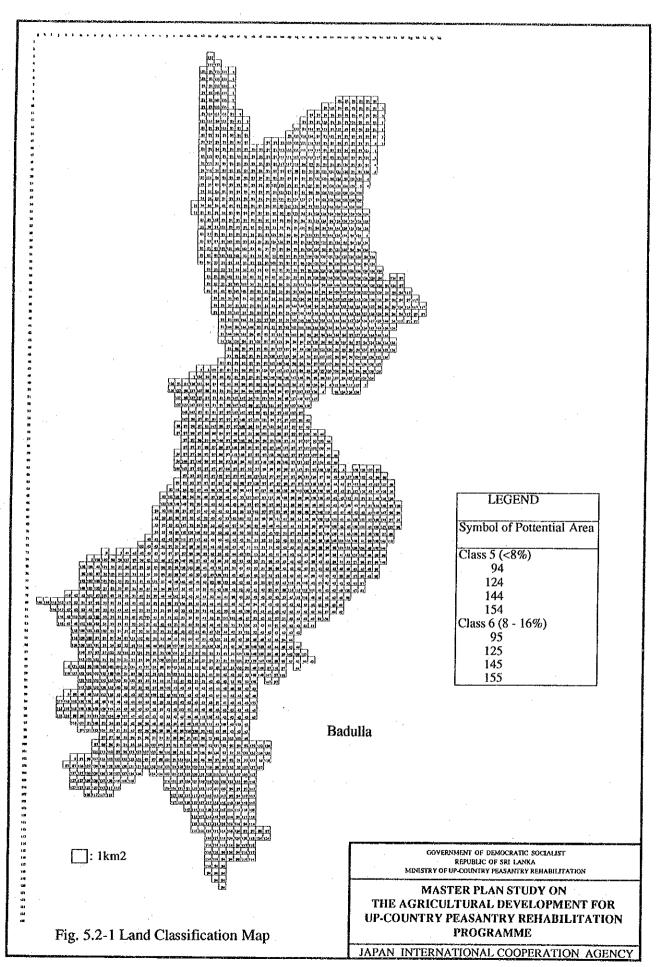


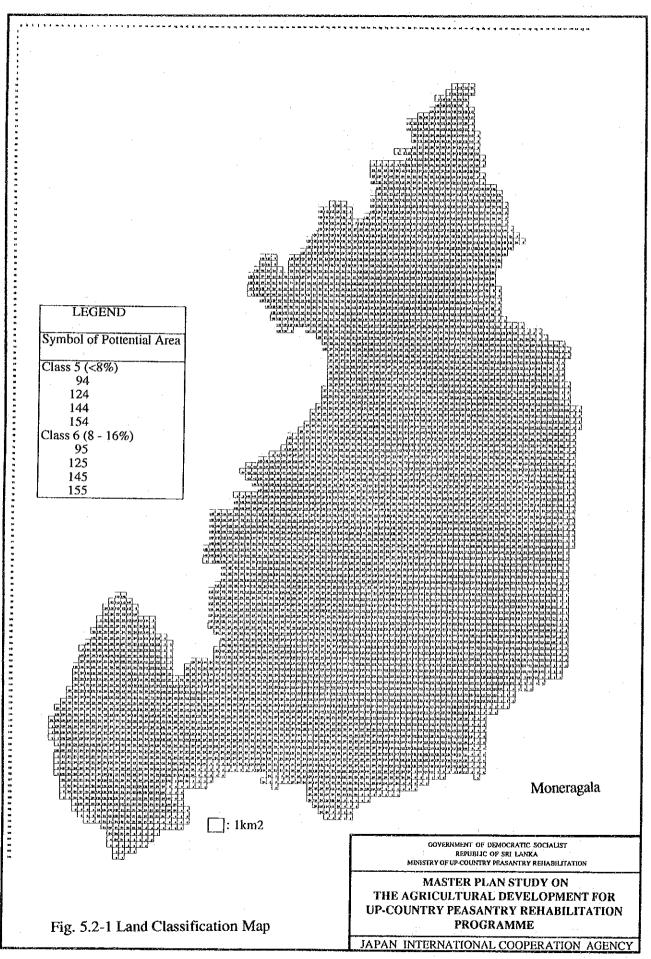












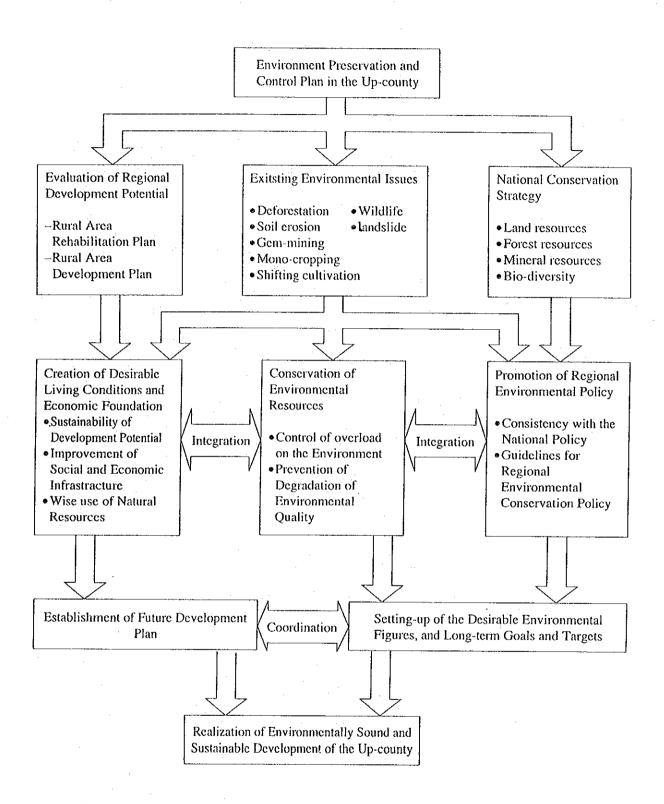


Fig. 5.6-1 Conseptual Diagram of Environment Preservation and Control Plan

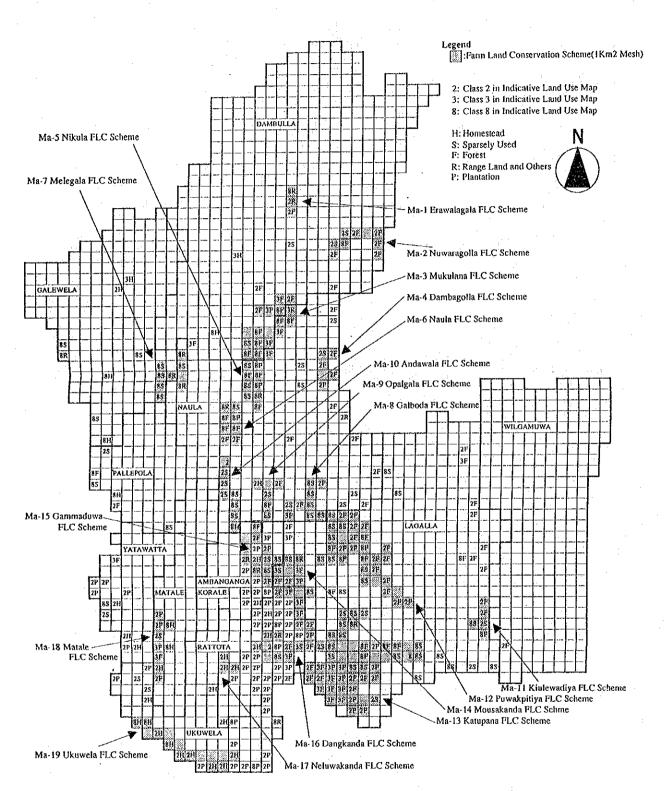


Fig. 5.6-2 Location of Farm Land Conservation Scheme (1/7) (Matale District)

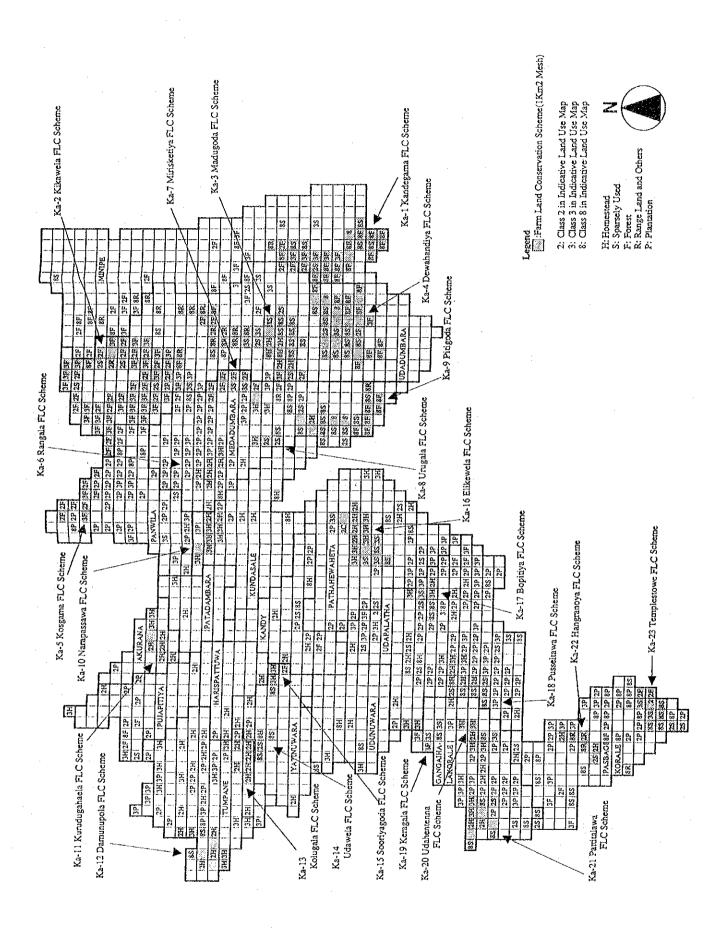


Fig. 5.6-2 Location of Farm Land Conservation Scheme (2/7) (Kandy District)

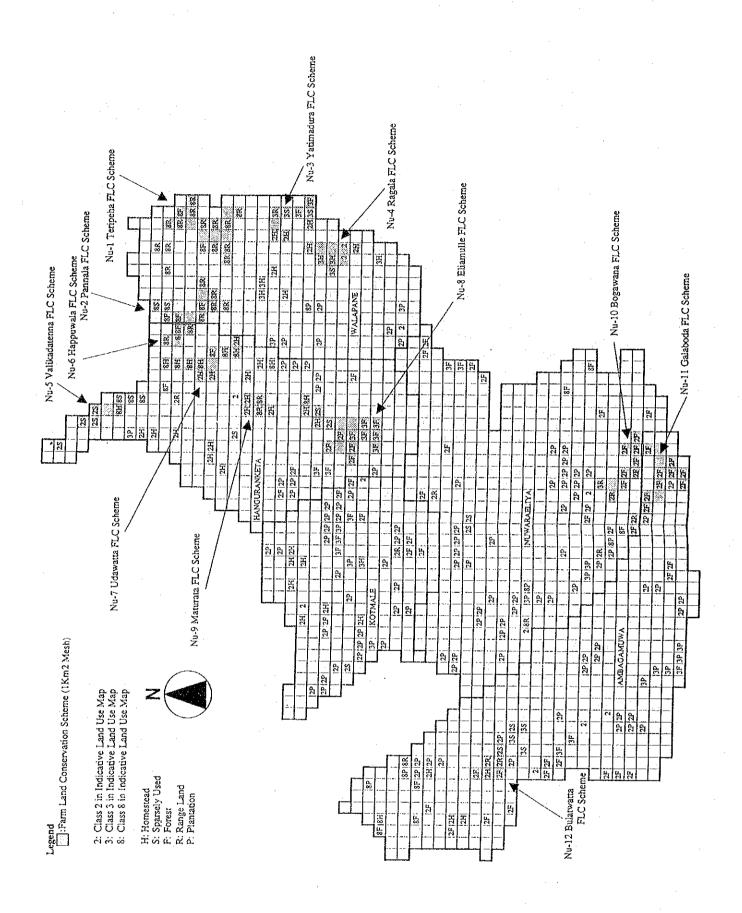


Fig. 5.6-2 Location of Farm Land Conservation Scheme (3/7) (Nuwara Eliya District)

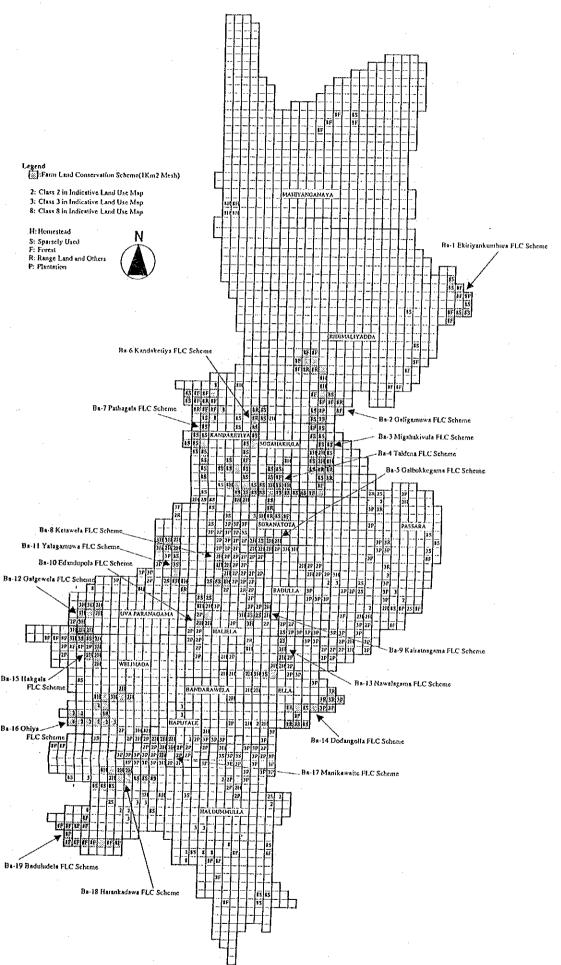
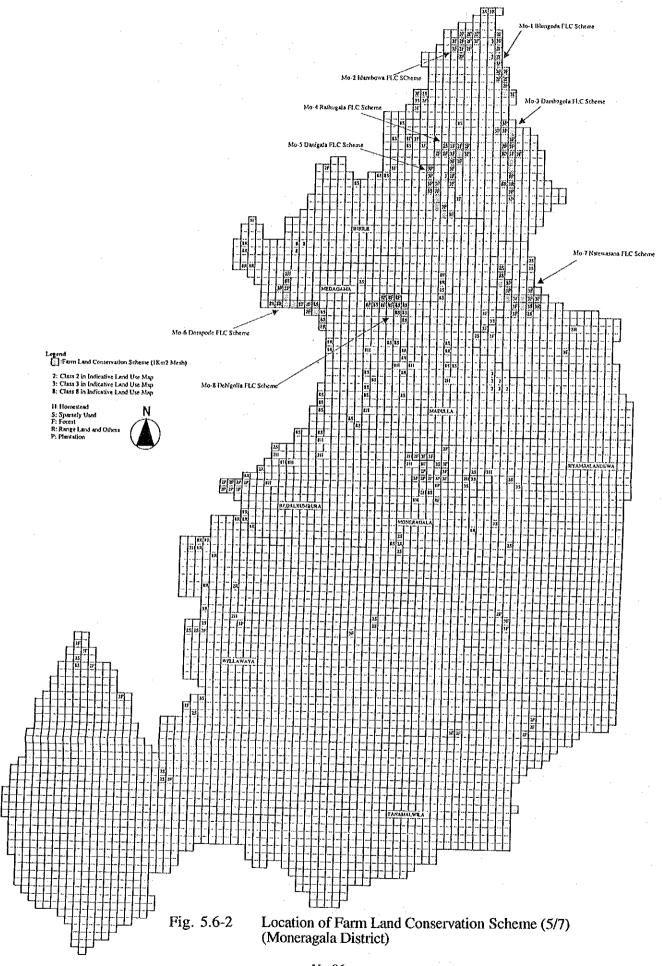


Fig. 5.6-2 Location of Farm Land Conservation Scheme (4/7) (Badulla District)



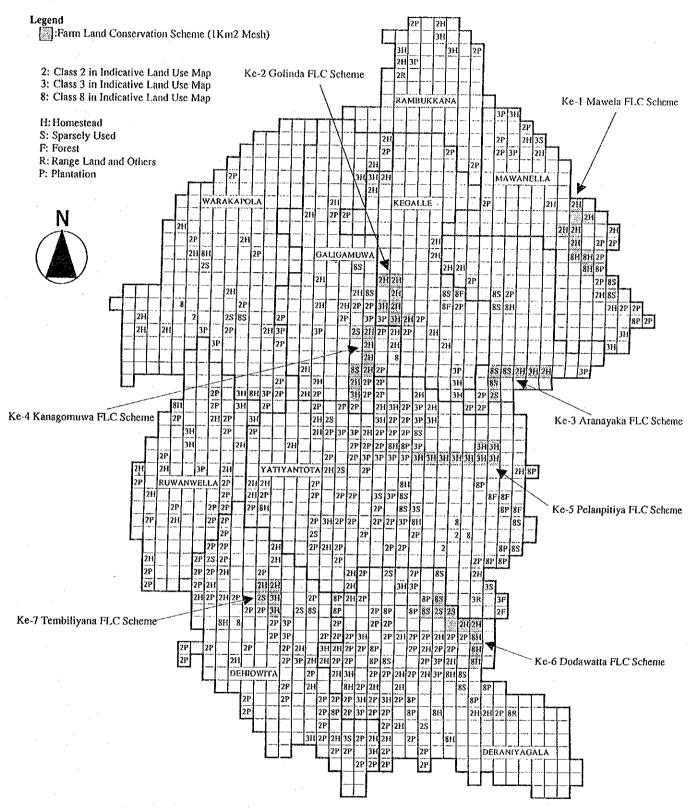


Fig. 5.6-2 Location of Farm Land Conservation Scheme (6/7) (Kegalle District)

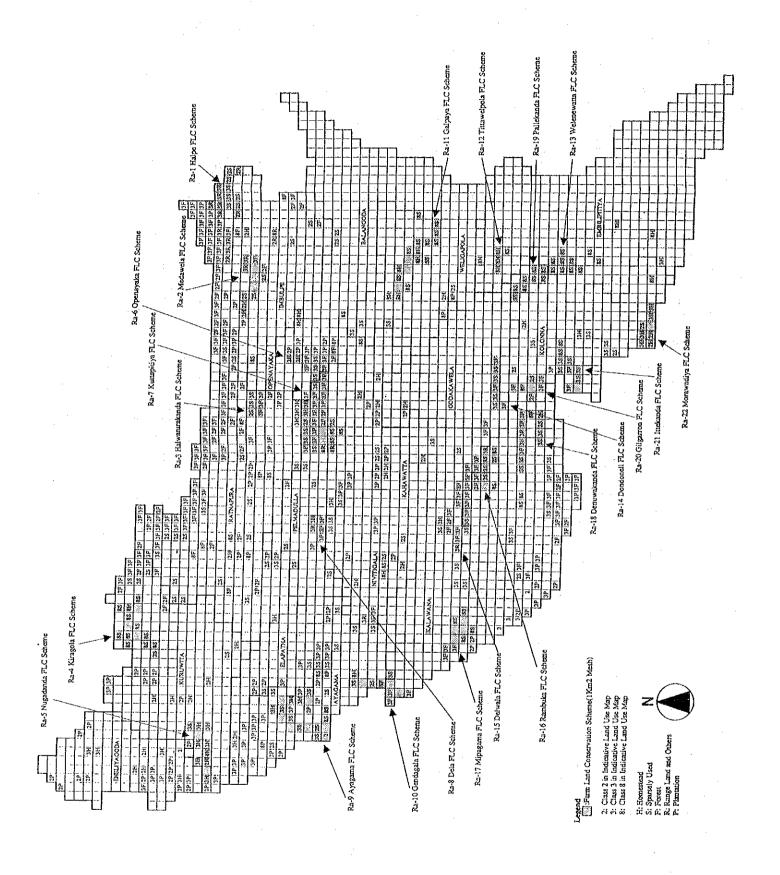


Fig. 5.6-2 Location of Farm Land Conservation Scheme (7/7) (Ratnapura District)

#### CHAPTER 6 IMPLEMENTATION PROGRAMME AND COST

## 6.1 Project Components and Project Quantity

The components, quantities and implementation agencies of the Master Plan are listed below:

Component	Description	Quantity	Implementation	Project Name	~
			Agency		Agency
1. Irrigation	1. R.Major Irr. Scheme	4,250ha	ID	NIRP	WB/EEC
	2 ditto -	1,660ha	ID	MICDP	EEC
	3 ditto -	7,250ha	ID	•	to be decided
	4. Recon.Major Irr.Scheme	e 3,390ha	ID	_	to be decided
	Sub-total	16,550ha	•		
	5. R.Minor Irr. Scheme	4,500ha	ID/DAS	NIRP	WB/EEC
	6 ditto -	3,750ha	MPPI	IRDP	German, Dutch
			ID/DAS		Norwey, IFA
	7 ditto -	10,920ha	DAS/PC	-	to be decided
	8. Recon.Minor Irr.Schem	e 510ha	ID	_	to be decided
	Sub-total	19,680ha			
	Total	36,230ha			
2. Rural Road	1, R.Class C Road	250km	PC	. ~	the Governmen
	2 ditto -	375km	PC	_	to be decided
	Sub-total	582km			
•	3. R.Class D Road	250km	PC		the Governmen
	4 ditto -	277km	PC	-	to be decided
	Sub-total	527km			
	5. R.Class E Road	860km	MPPI/PC	IRDP	German, Dutch
					Norwey, IFAI
	6 ditto -	462km	PC ·	-	to be decided
	Sub-total	1,322km			10 00 0001000
	Total	2,431km			
3. Rural Water	1. Kandy WS	_	NWSDB	NWSDB	FINNIDA
Supply	2. Badulla WS	_	NWSDB	NWSDB	UNDP
	3. Moneragale WS	-	NWSDB	NWSDB	ADB
	4. Ratnapura WS	_	NWSDB	NWSDB	UNDP
	5. Kegalle WS		NWSDB	NWSDB	ADB
		8 Scheme s	NWSDB/PC	_	the Governmen
, , , , , , , , , , , , , , , , , , ,		25 Scheme		_	- ditto -
		96 Scheme	s PC	-	- ditto -
		1 Scheme s	NWSDB/PC	-	- ditto -
	:DW 3.6	31 Schemes	PC	*	- ditto -
. Rural					
	on1. MV/LV wire 1,39	4 Schemes	CEB	Project	ADB
	1. R. Seed&Fertilizer	178ASC	DAS		to be decided
	2. Production Storehouse	53 Sites	DAS	_	to be decided
and Suppor		55 Nos.	DAS	<b>.</b> .	to be decided
	4. C. Sabaragamuwa	1 Site	DA3 DA	2nd AEP	WB/IDA
	5 R. DATC & ISTI 7 DA		DA	2nd AEP	WB/IDA
	6. Imp. CAIC	1 Centre	DAPH	ZIIO AEP	to be decided
	7. Imp. DVSS	7 Sites		-	
. Farmland	1. Farmland Conservation	69,000ha	DAPH NADSA	-	to be decided to be decided
	· earthugger Ancardanan				

<Note> R.: Rehabilitation, Recon.: Reconstruction, C.: Construction, Imp.: Implementation

# 6.2 Organization of Project Implementation

The implementation agency of the Master Plan is the Ministry of Up-Country Peasantry Rehabilitation (MUPR). The MUPR will coordinate and monitor the implementation of the projects in cooperation with the Ministries and agencies concerned

who will be the project executing agencies. .Accordingly, it is desired to established a "Steering Committee" at the national level and "Coordination Committee" at the provincial level for the purpose.

The MUPR, in this set-up, is requested to secure and allocate the budgets, negotiate with the funding agencies and to coordinate and monitor the on-going programmes and projects.

The project system flow with MUPR as the core is shown in Fig. 6.2-1.

## 6.3 Implementation Programme

The goals of infrastructure rehabilitation for agriculture and rural development under the Master Plan are summarized in Table 6.3-1. To achieve the targeted level, the implementation programme is established as follows.

The Master Plan includes the on-going projects as well as projects scheduled for implementation in the near future. These projects shall be implemented according to their own schedules.

#### (1) Irrigation

In the irrigation sector, there are some on-going projects such as those under NIRP, MICP(Moneragala) and IRDP programmes. Through these projects, 18,680 ha of major/medium and 11,950 ha of minor irrigation schemes will be rehabilitated by 2003, and remaining 7,248 ha of major/medium and 10,920 ha of minor irrigation scheme will be rehabilitated under the new project.

Concerning the minor irrigation scheme, rehabilitation works is partially scheduled under the AGA Project using the construction machinery and materials supplied to the Divisional Secretaries' Offices. The portion to be rehabilitated through this project is not considered since detailed implementation programmes have not been made as yet.

Greater parts of minor irrigation schemes to be rehabilitated under the new projects are schemes below 30 ha in extent, and schemes that are less than 5 ha occupies more than 50 % in term of numbers. Rehabilitation of these small sized scheme will be made principally by the beneficiary farmers themselves. Accordingly, it is recommended to execute the rehabilitation works by the farmers under technical and financial assistance of the Irrigation Department and Department of Agrarian Services.

For the rehabilitation of these minor schemes, it is necessary, in principle, to establish the farmers organizations, and the Irrigation department and Department of Agrarian Services to take the initiative for the project implementation. In planning the project, it is important to ensure direct involvement of beneficiaries as organizations who would contribute a certain construction cost as they do in other rehabilitation programmes.

#### (2) Rural Roads

The length of rural roads (Class C, D and E) requiring rehabilitation is 4,270 km. This is about 30% of the total road length of 13,480 km. Under the Mater Plan, 2,431 km out of the 4,270 km will be rehabilitated, with the goal of rehabilitating 60% of Class C and D roads and 100% of Class E roads. About 50.0 km/year of Class C and D roads will be rehabilitated by own budget estimated from 1992-1996 Public Investment, and 86.0 km/year of Class E roads are expected to be rehabilitated by IRDP.

The remaining required rehabilitation length of 1,204 km will be executed as a new project. The 1,071 km road length breaks down into 332 km of Class C roads, 277 km of Class D roads and 462 km of Class E roads.

Concerning the rural roads rehabilitation, the works is partially scheduled under the AGA Project using the construction machinery and materials supplied to the Provincial Councils and the Divisional Secretaries' Offices. The portion to be rehabilitated through this project is not considered since no detailed implementation programme has yet been made.

### (3) Rural Water Supply

Rural water-supply projects have just been commenced in Ratnapura and Badulla districts financed by UNDP/WB, and in Moneragala and Kagalle districts financed by ADB. 100 % of protected water will be supplied by year 2000 under UNDP/WB programme and by 2010 under the ADB programme.

In the Kandy district, the water-supply project, financed by FINNIDA since 1980, is expected to continue.

In the Matale district, water-supply project was completed in 1991 financed by DANIDA. However, it is estimated that the actual supply rate is 75 %.

In the Nuwara Eliya district, though several water supply projects are implemented by IRDP, the present water supply rate is low at 39%. This is because the District is situated in a water-rich area of Sri Lanka, where comparatively clean surface water is readily available.

In the Ratnapura, Badulla, Moneragala, Kegalle and Kandy districts, water supply projects are being implemented with the cooperation of their respective funding agencies. In the Matale and Nuwara Eliya districts, which have no funding agencies at present, new project are required for rural water supply.

#### (4) Rural Electrification

Rural electrification is promoted by CEB through the Rural Electrification Project financed by ADB. It aims for 62% electrification in rural areas and a national average of 70%.

The present electrification rate is 45% (though actually in terms of number of households is 23.3%). The plan and goal of CEB is considered to be appropriate. A new project for rural electrification will not be necessary, since the ADB project could be cover the requirement.

#### (5) Agricultural Promotion and Supports

As for agricultural promotion plan, several measures such as rehabilitation of exiting irrigation schemes, agricultural extension service, improvement of training facilities etc. could be planned. Rehabilitation plan on irrigation schemes will be executed as described in this section and DOA is hoped to continue the activities on agricultural extension and research. As for improvement of training facilities, development programme will be carried out under the Second Agricultural Extension Project financed by IDA/WB.

As for agricultural supporting plan, the following supporting project are formulated;

1) Improvement of storage facilities including transportation facilities,