

SHARED CONTROL OF NATURAL RESOURCES (SCOR)

SCOR PROGRESS 1st QUARTER 1996

May, 1996

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International Irrigation Management Institute (IIMI)
Sri Lanka National Program
127, Sunil Mawatha, Battaramulla, Sri Lanka

SCOR PROGRESS AS AT END OF FIRST QUARTER 1996

1. INTRODUCTION

The first quarter of 1996 marked detailed planning for the second phase of SCOR project in both pilot watersheds. Identification of new sub-watersheds for interventions, participatory resources use survey and mapping, participatory constraint analyses and the formulation of action plans by field level task forces were main features of this planning process. The formulation of the SCOR Work plan for the Second Phase is the main output produced from this planning process.

This report presents the SCOR progress achieved at 33 sub-watersheds of Huruluwewa and Upper Nilwala Watersheds by the collective interventions of the resources users, government implementing and research agencies, and SCOR teams as at end of March 1996. Progress is reported by programme level and project level indicators supplemented by information on its spatial distribution.

Separate progress reports prepared by each pilot watershed offices with watershed specific details are available for more information.

2. UTILIZATION OF PROJECT INPUTS

2.1 Financial Inputs

	ITEM	UNIT	LOP TARGET	TOTAL TO DATE	CY95 ACTUAL/PLAN
1.	Budgeted expenditure	US\$ ('000)	6518	2643.36	200.2/1300.2
2.	User grants ¹	US\$ ('000)	495	132.94	.97/75
3.	Host country contribution ²	Rs. (M)	151.50	59.68	2.7/25

¹ This excludes research grants

2.2 Budgeted Expenditure

The project recorded 76% of fund utilization during the first quarter 1996. Annex 1 presents the actual expenditure out of the budget by major line items. Annex 2 presents the actual expenditure out of the budgeted allocation for the quarter. Annex 3 presents the actual

² See Annex 5 for details

expenditure out of the budget for the year 1996. Annex 4 presents the actual expenditure out of the budgeted allocation for the life of project.

3. PERFORMANCE IN SUMMARY BY STRATEGIC AND PERFORMANCE INDICATORS

3.1 Performance by strategic indicators

			YEAR 1995							
Performance (SCOR)	Last Year US\$	First quarter	Second quarter	Third quarter	Fourth quarter	Total				
Planned Expenditure Actual Expenditure % Achieved	3,063,797 2,443,003 80	263,930 200,176 76	335,224	337,466	363,563	1,300,183 200,176 15				
Host Country Contribution Planned Actual % Achieved	936,800 1,085,275 116	75,800 53,818 72	90,000	145,000	190,000	500,000 53,818 11				

3.2 Project purpose level indicators

Strategic level indicator	Unit	LOP Target (Six years)	Total To date
Targeted hectares under improved production and protection techniques,	На	30,000	11,085
Value of targeted investment by the resource users in environmentally sound production practices.	\$(M)	3.0	1.04
3. Government policy decisions initiated.	#	4	3

3.3 Performance by program outcome level indicators

Programme Outcome Level Indicator	Unit	LOP Target	Total To date
Targeted land area covered by agreements between GSL and user groups (Extent now under protection and production practices expecting user rights)*	На.	5,000	479.9
Farm households using improved environmental techniques	#	25,000	10,458

^{*} In accordance with the National Steering Committee decision for demonstrating action for the required policy change.

Project Purpose Level Indicator	Unit	LOP Target	Total To date
Number of natural resources groups operating	#	750	118
No. of policy/procedures, organizational changes exacted and adopted	#	4	3

Project Output Targets/Performance	LOP Target	Total To date
User groups organized/assisted to take joint responsibility for management of land and water resources	750	118
Number of new commercial activities supported by linking to markets	200	47
3. Land leasing/usufruct agreements issued for establishments and functioning of production companies and commercial activities	10	1

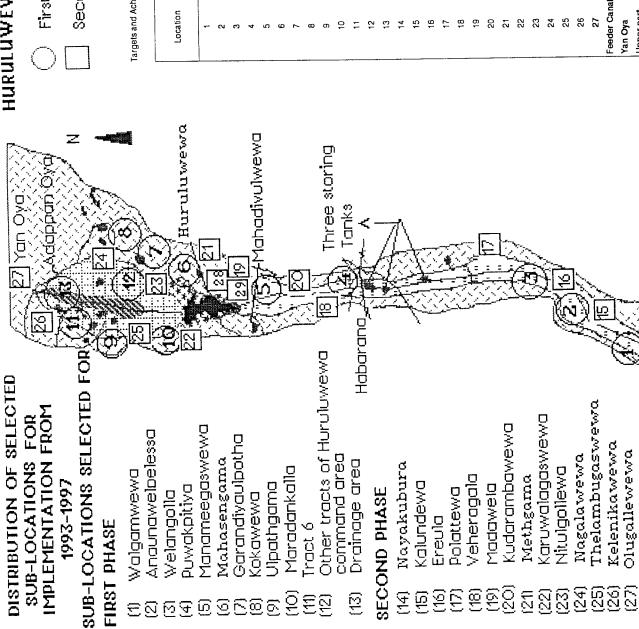
Project Output Targets/Performance	LOP Target	Total To date
Training opportunities provided to representatives of NGOs and other private sector organizations in participatory natural resources management	30,000	13,703
5. Number of officials trained in local level planning, user groups formation, support and collaboration	2,000	397
6. Number of user organizations conferred with legal status and powers	75	39
7. Number of NGOs and private sector agencies providing technical, managerial and commercial information to user groups	20	20
Research studies completed on natural resources issues	30	9

4. SPATIAL DISTRIBUTION OF PROJECT OUTPUT AND EFFECTS

Map 1 shows the distribution of sub-locations, the targets and achievements on the anticipated effects and impact on the adoption of production and land and water conservation techniques (Strategic level indicator 1) in each sub-location with the number of farm families involved (Programme outcome level indicator 2) under major interventions in the Huruluwewa watershed.

5. HIGHLIGHTS OF PERFORMANCE

Highlights of performance by way of achievements have been presented with the work plan for the second phase. Watershed specific information with regard to the performance during the first quarter appear in the progress reports prepared separately by the two watersheds. Those reports are available for reference.



HURULUWEWA WATERSHED

) First Phase of the Project

Second Phase of the Project

Targets and Achievement upto End of 1st quarter 1996

	Target	Up to end	During	End of	Target	Up to end During	During	End of
Location		of 4th Otr.	1st Qt.	1st Q.	Farm	of 4th Otr. 1st Ot.	1st Qt.	1st Qt.
	(ha)	1995	1996	1996	Families	1995	1996	1996
-	545.0	273.1	40.3	313.4	248	230	0	230
N	647.0	488.1	0.0	488.1	76	287	0	287
ო	727.0	464.3	0.0	464.3	168	262	0	262
4	394.0	244.4	21.0	265.4	65	406	Q.	406
'n	218.0	123.2	15.0	138.2	64	368	0	368
9	644.0	181.6	5.0	186.6	63	140	0	140
7	688.0	59.8	19.0	78.8	100	265	0	265
80	169.0	200.6	19.0	219.6	131	244	0	244
O	293.0	281.7	12.0	293.7	150	284	0	284
10	197.0	624.4	96.5	720.9	78	211	78	289
7	282.0	500.4	3.0	503.4	168	530	168	869
12	4400.0	4000.0	95.5	4095.5	9315	3105	0	3105
5	300.0	72.0	0.0	72.0			0	0
4	154.0	2.8	7.0	9.8	107	36	0	36
5	254.0	20.0	23.7	43.7	188	40		40
16	434.0	4.4	66.5	70.9	225	102	0	102
17	341.0	224.8	154.0	378.8	106	108	0	108
18	153.0	13.6	4.8	22.0	158	44	0	44
19	418.0	276.8	62.0	338.8	152		0	0
50	361.0	53.6	5.0	58.6	130		0	0
21	190.0		16.0	16.0	92		0	0
22	200.0	26.4	130.0	156.4	74	e 	50	20
23	180.0	21.2	33.0	54.2	165	27		27
24	131.0		43.8	43.8	242		0	0
25	135.0		59.0	59.0	22		0	0
56	352.0	20.0	12.3	32.3	115	5 64	9/ 1	140
27	216.0	79.6	1.0	80.6	286			0
Feeder Canal	933.0		107.0	107.0	1023	<u></u>	J	0
Yan Oya	116.0	_	2.0	2.0	163		0	0
Upper part	613.0	_	14.0	14.0	741		45	5 45
of Command				0.0				
	14685.0	8256.8		1071.0 9327.8	14599	6783	3 387	7 7170
	-	-						

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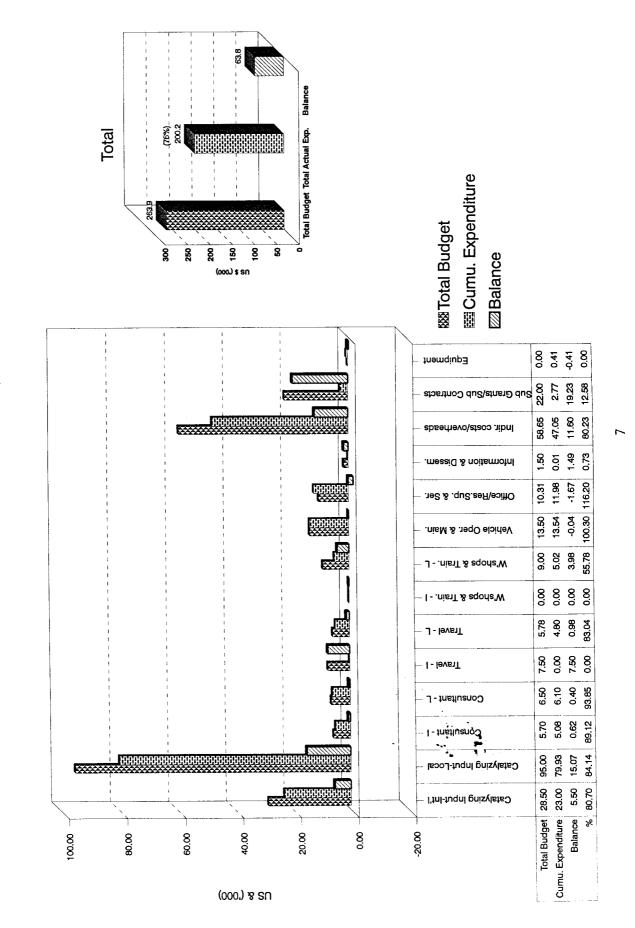
USAID – SRI LANKA GRANT NO: 383 - 0109 - A - 00 - 3413 - 00

BUDGET VERSUS ACTUAL EXPENDITURE FOR 1ST QTR. 1996

(US \$ '000)									
	В	udgeted E	xpenditur	e		Actual	Expenditure	,	
Description			-						Balance
	_								
	Jan.	Feb.	March	Total	Jan.	Feb.	March	Total	
Salaries Benifits & All.									
Int'l	9,500	9,500	9,500	28,500	9,483	5,850	7,667	23,000	5,500
Local	30,000	30,000	35,000	95,000	24,629	26,437	28,860	79,926	15,074
Consultant									
Int'l	300	0	5,400	5,700	0	0	5,084	5,084	616
Local	0	3,000	3,500	6,500	357	3,055	3,580	6,992	(492)
Travel									
Int'l	0	0	7,500	7,500	0	0	0	0	7,500
Local	1,925	1,925	1,925	5,775	1,523	1,442	1,838	4,803	972
Workshops & Training									
Int'l	0	0	0	0	0	0	0	0	0
Local	3,000	3,000	3,000	9,000	1,144	2,083	1,790	5,017	3,983
Other Direct Costs									
Vehicle Oper. & Main.	4,500	4,500	4,500	13,500	1,574	7,084	4,884	13,542	(42)
Office/Research	3,435	3,435	3,435	10,305	5,313	3,563	3,105	11,981	(1,676)
Supp. & Ser.	,,,,,	.,	.,,,,,,	10,500	3,515	3,505	3,103	11,561	(1,070)
Information &									
Dissemination	500	500	500	1,500	5	6	o	11	1,489
Audit	0	0	0	o	0	0	0	0	0
Indirect costs/									
Overheads (32%)	16,480	17,317	23,021	58,650	13,649	15,351	18,052	47,052	11,598
Sub Grants/sub contracts	10,000	2,000	10,000	22,000	967	1,395	0	2,362	19,638
Equipments	0	0	0	0	0	0	406	406	(406)
Total	79,640	75,177	107,281	263,930	58,644	66,266	75,266	200,176	63,754

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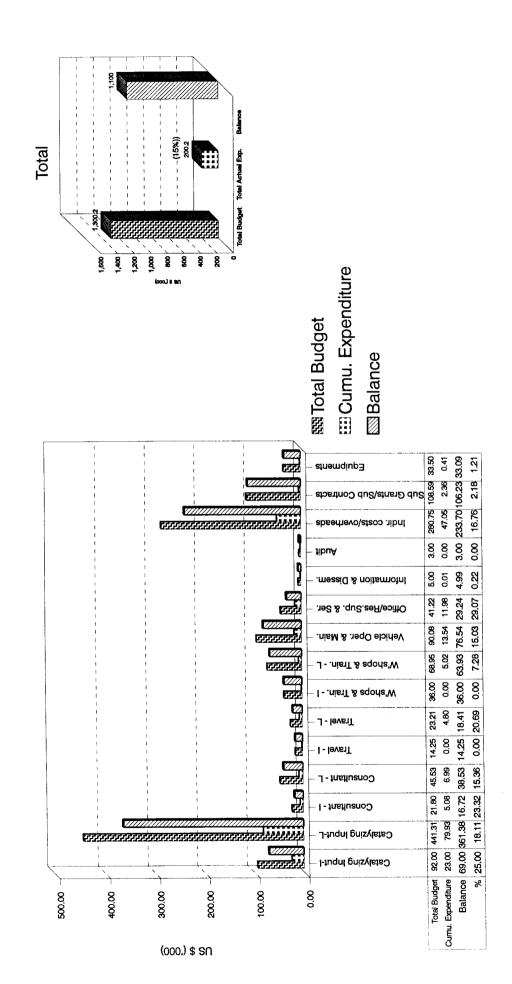
EXPENDITURE OUT OF THE BUDGET FOR THE 1st QUARTER, 1996



CUMULATIVE EXPENDITURE OUT OF LIFE OF PROJECT BUDGET

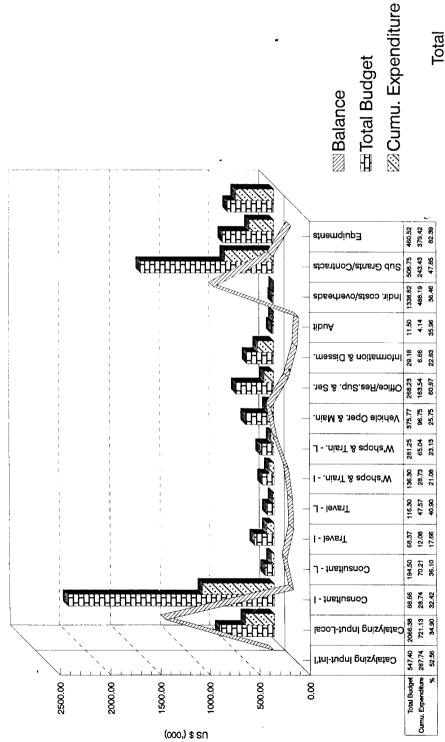
Annex 4

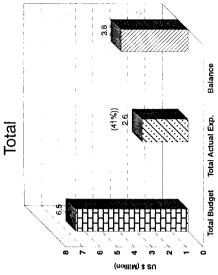
OUT OF THE BUDGET OF THE YEAR 1996 EXPENDITURE AS AT END OF MARCH



FROM JUNE '93 TO MARCH '96

CUMULATIVE EXPENDITURE OUT OF LIFE OF PROJECT BUDGET FROM JUNE '93 TO MARCH '96





SUMMARY REPORT ON HOST COUNTRY CONTRIBUTION (HCC) 25.10.93 - 31.03.96

Description	N	lilwala	Hui	uluwewa	Total	Total
	No.	HCC Rs.	No.	HCC Rs.	No.	HCC Rs.
Contribution of NGOs, groups, farm households, and individuals by way of time/labour, and materials supplied (persons)	7,896	1,491,582	12,755	3,115,178	20,651	4,606,760
Value of conserved capital assets		0		4,730,513		4,730,513
Value of sub Grants (No)	35	3,108,115	54	3,885,551	89	7,045,666
Govt. officers contribution (persons)	536	3,339,844	362	1,308,588	898	4,648,432
Conserved Area		5,022,850		34,294,631		39,317,481
Total		12,962,390		47,334,461		60,296,851

SCOR RESEARCH STUDIES - CURRENT STATUS (SUMMARY) - Huruluwewa and Nilwala watersheds -

END OF 1ST QUARTER 1996

Study	Name of study	Present status
No	EGRATED WATER MANAGEMENT	
	<u> </u>	Awaiting report
(1)	·	Awaiting report
	and vegetation change in the	
(2)	Maha Meegaswewa sub – watershed	Completed
(2)	Baseline and M&E studies for	Completed
	intergrated water management in	
(2)	Huruluwewa watershed.	XX7 1 .
(3)	Agro-well & Ground water management	Work in progress
(4)	in Huruluwewa watershed	T- 1
(4)	Land consolidation in small tanks	To be commenced
	(Process documentation only)	
	Supplementary studies	
(5)	Land use maps (1:50000) for	Completed
	Nilawala & Huruluwewa Watersheds	
	to demarcate boundaries of watersheds &	
	sub-watersheds & to help identify	
	to pilot intervention sites.	
(6)	Complete the review of land use and	Work in progress
	prepare land use maps for	(awaiting report)
	Huruluwewa Watershed	
(7)	Complete the review of land use and	Work in progress
	prepare land use maps for	(awaiting report)
	Nilwala Watershed	
CON	 SERVATION FARMING IN UNDERUTILIZED HIGHI	ANDS
(espe	ecially Chena & Scrubland)	
(8)	Effects of Conservation Measures under	Completed
, ,	SCOR interventions in the	(as a component of the
	Huruluwewa Watershed.	major project)
(9)	Potential for improving Labour Productivity	Work in progress
` ′	in Tea small holdings	
(10)	A study on adoption of Technology	Completed
` ´	in the tea sector in Upper Nilwala	-
	watershed.	
.PRO	DUCTION AND CONSERVATION IN OTHER AREAS	
1	dy, tea and other existing croplands)	
(11)	An analysis of demand, supply and price –	Completed
	relations aimed at production scheduling	•
(12)	Evaluation of profitability and productivity	Almost Completed
-/	of onions, tomato and rice under different	(awaiting editted report)
1	of omons, tomato and rice under different	

Study No	Name of study	Present status
(13)	Biodiversity of Medicinal and other tree	Completed
(20)	species in the Huruluwewa Watershed	Completed
	with emphasis on their economic utility.	
(14)	Evaluation of SCOR interventions on	
(-1)	resources management and	
	profitability trends in Huruluwewa	
	and Nilwala watersheds	
	Part 1 – Bench mark establishment	Commisted
	Tart I Benefi mark establishment	Completed
	Part 2 – Impact Evaluation	To be commenced
(15)	Study on crops/ livestock yield, profitability	Work in progress
	and other socio—economic aspects in	(awaiting report)
	Nilwala Watershed	(awaiting report)
•	Supplementary study	
(16)	Feasibility study on Production	Completed
()	& processing of Medicinal plants—	Completed
	a component of land & water	
İ	conservation efforts in the dry zone	
INTE	GRATED PLANNING AND COORDINATION	
	ATERSHED	
(17)	Process Documentation of SCOR	Alternative arrespondents
(1/)	1100035 Documentation of 500K	Alternative arrangements
(18)	Action Research study on Institutional	are being made. Terminated
(10)	support for projects of Resources	Terminated
	user organizations	
(19)	Action research study on Special SCOR	3371_*
(1)	interventions in the Huruluwewa feeder	Work in progress
	canal area	(report available on objectives
OPG	ANIZATIONAL DEVELOPMENT AND	2.1, 2.2 & 2.3 of the contract)
	RED CONTROL	
(20)		
(20)	Impact of Land Tenure	
	Part 1 – Literature Review	Completed
	Part 11 – Micro level analysis	Work in progress
	·	(data are being analyzed)
(21)	Policy research related to organizational	Study is being formulated
`	and business modes for production and	bondy is some formulation
	protection, ranging from informal groups to	
	production/processing/service companies	
(22)	Policy research related to different modes of	Study is being formulated
(22)	partnerships and legal recognition to	Study is being formulated
	tested modes	
(23)	Development & Sustainability of user	Completed
(20)	organizations in watershed management	Completed
	in Nilwala and Huruluwewa Watersheds.	
(24)		TT.
(24)	Evaluation of Technology adoption in	Huruluwewa report is
	balancing Production & Protection	completed
	in Nilwala and Huruluwewa watersheds.	

SHARED CONTROL OF NATURAL RESOURCES PROJECT (SCOR)

List of Reports/Papers

End of 1st Quarter 1996

Title		Author
1.	SCOR Work Plan (1993-1995)	SCOR Project
2.	Land and Water Resources Management in Watersheds - Participatory Action Research Aimed at Integrating Production and Protection	C.M. Wijayaratna, Head, Sri Lanka Field Operations, IIMI, SCOR Project Leader Paper presented to the 10th Internal Program Review of IIMI, 7-11 Nov. '94 Colombo.
3.	Shared Control of Natural Resources Spatial Database for Planning and Monitoring Resource Use Change.	Gamini P. Batuwitage, M&E Specialist, SCOR Paper presented to the 10th Internal Program Review of IIMI, 7-11 Nov. '94 Colombo.
4.	Integrated Water Management in a Watershed Context	Nihal Fernando, Research Associate/Water Resources Engineer, SCOR Paper presented to the 10th Internal Program Review of IIMI, 7-11 Nov. '94 Colombo.
5.	Shared Control of Natural Resources An Integrated Watershed Management Approach to Optimize Production and Protection	C.M. Wijayaratna, Head, Sri Lanka Field Operations, IIMI, SCOR Project Leader Presented to the Annual General Meeting and Seminar of Sri Lankan Agricultural Economics Association Peradeniya, Sri Lanka.
6.	Integration Environmental and Conservation Concerns with Production Goals A Participatory Approach to Land and Water Resources Management in a Watershed Context	C.M. Wijayaratna, Head, Sri Lanka Field Operations, IIMI, SCOR Project Leader Paper presented to the 8th International Soil Conservation Conference on "Soil and Water Conservation: Challenges and Opportunities", December 4-8, 1994, New Delhi, India.
7.	Planting Trees along Roads, Stream and Canal Reservation and in Watershed Areas in Sri Lanka - Present Status and Issues for Consideration	C.M. Wijayaratna, Head, Sri Lanka Field Operations, IIMI, SCOR Project Leader Anura S. Widanapathirana Monitoring and Evaluation Consultant, Participatory Forestry Project, Forest Department, Sri Lanka.

	Title	Author
8.	Information Technology for Policy Analysis and Change in Sustainable Integrated Watershed Resources Management	Gamini P. Batuwitage, M&E Specialist, SCOR Paper presented at the Training Course on the Use of Information Technology for Sustainable Development organized by the Asian and Pacific Development Center, Kuala Lumpur, Malaysia, on 16.08.94.
9.	Review of the Monitoring and Evaluation, Organization and Theme Actualization of the Shared Control of Natural Resources (SCOR) Project	Gerald J. Karaska, Clark University, Worcester, Massachusetts, USA.
10.	SCOR PROGRESS - 1st Quarter 1994	
11.	SCOR PROGRESS - 2nd Quarter 1994	
12.	SCOR PROGRESS - 3rd Quarter 1994	
13.	SCOR PROGRESS - 4th Quarter 1994	00000
14	SCOR Monitor - January - March 1994	SCOR Project
15.	SCOR Monitor - April - December 1994	
16.	SCOR Monitor - January - August 1995	
17.	SCOR PROGRESS - 1st Quarter 1995 ,	
18.	SCOR PROGRESS - 2nd Quarter 1995	
19.	SCOR PROGRESS - 3rd Quarter 1995	
20.	SCOR PROGRESS - 4th Quarter 1995	
21.	Review of Progress of Shared Control of Natural Resources Project	Marcus M. Karunanayake Senior Professor of Geography, Dept. of Geography, University of Sri Jayewardenepura, Sri Lanka.
22.	Adoption of Technology in the Tea Sector in Upper Nilwala Watershed	Vijith Jayamanne Bsc Student, University of Ruhuna.
23.	Huruluwewa Watershed: Present Status and Proposed Interventions under the Shared Control of Natural Resources (SCOR) project (Interim Report)	Land Use Policy Planning Division, Ministry of Lands.
24.	"Indigenous Rainwater Harvesting Systems in Sri Lanka: Current Status and An Eco System Approach to Revitalization".	C.M. Wijayaratna, Head, Sri Lanka Field Operations, IIMI, SCOR Project Leader Paper presented to the 7th International Rainwater Catchment System Conference, June 19-25, 1995, Beijing, China.

	Title	Author
25.	A Participatory Holistic Approach to Land and Water Management in Watersheds	C.M. Wijayaratna, Head, Sri Lanka Field Operations, IIMI, SCOR Project Leader Paper presented to a special seminar on "Effective Water Use through Improved Irrigation Management Information System", Irrigation Engineering Center, NIA Compound, EDSA, Quezon City, Metro Manila, Philippines, 12-15 March 1995
26.	Data, Capacity Building, and Networking Needs for the use of Geographical Information Systems in Agricultural Research	Gamini P. Batuwitage, M&E Specialist, SCOR Paper presented at ARENDAL II workshop on UNEP and CGIAR cooperation on 09.05.95 to 11.05.95 in Arendal, Norway.
27.	Seasonal Summary Report on Integrated Water Management in Huruluwewa Watershed (Maha 1994/95 season)	N.U. Hemakumara, Irrigation Engineer, Huruluwewa, Nihal Fernando, Research Associate/Water Resources Engineer, SCOR, B.R. Ariyaratne, Research Officer, SCOR
28.	Action Research Study on Special SCOR Interventions in the Huruluwewa Feeder Canal Area	D.M. Ariyaratne, Former Director, Irrigation Management Division.
29.	Nilwala Watershed: Present Status and Proposed Interventions under the Shared Control of Natural Resources (SCOR) project (Interim Report)	Land Use Policy Planning Division, Ministry of Lands.
30.	Biodiversity of Medicinal and Other Tree Species in the Huruluwewa Watershed with Emphasis on their Economic Utility. (Reconnaissance Survey)	DR. B. Colin N. Peiris Senior Lecturer Horticulture, Faculty of Agric. University of Peradeniya.
31.	Biodiversity of Medicinal and Other Tree Species in the Huruluwewa Watershed with Emphasis on their Economic Utility. (Identification of Genetic Diversity)	DR. B. Colin N. Peiris Senior Lecturer Horticulture, Faculty of Agric. University of Peradeniya.
32.	Land Consolidation in Village Tanks (A study in Anuradhapura District)	N.M.U. Nawaratna Chief Irrigation Engineer, Dept. of Agrarian Services
33.	Integrated Water Management in Huruluwewa Watershed - Maha 1994/95 season (Detailed report)	N.U. Hemakumara, Irrigation Engineer, Huruluwewa, Nihal Fernando, Research Associate/Water Resources Engineer, SCOR, B.R. Ariyaratne, Research Officer, SCOR
34.	GIS Application on Sustainable Development: Review of Current Programs, National Trends Experience from Sri Lanka and Shared Control of Natural Resources Project	Gamini P. Batuwitage, M&E Specialist, SCOR Paper presented at International Conference on GIS Applications - GIS AM/FM Asia 95, Bangkok.

	Title	Author
35.	Managing Watershed Environment	C.M. Wijayaratna, Program Leader, Social & Environmental Analysis and SCOR Project Leader. Paper presented to the "Watershed Management Forum", University of the Philippines, Los Banos, 4-6 October, 1995.
36.	Evaluation of SCOR Interventions on Resources Management and Profitability - Upper Nilwala Watershed (an interim report)	Department of Agriculture Economics, Faculty of Agriculture, University of Ruhuna, October 1995.
37.	Biodiversity of Medicinal and Other Tree Species in the Huruluwewa Watershed with Emphasis on their Economic Utility. (Final Report)	Dr. B. Colin N. Peiris Senior Lecturer Horticulture, Faculty of Agricultural University of Peradeniya. November 1995.
38.	Participatory Micro Hydro-Electric Power Generation	N. Edirisinghe, Research Officer (SCOR) D. Wijenayake, Watershed Management Coordinator (SCOR), Oscar Amarasinghe, Senior Lecturer, Dept of Economic & Extension, Faculty of Agriculture, University of Ruhuna, C.M. Wijayaratna, National Program Leader & SCOR Project Leader, IIMI. Paper presented to the Symposium on Rehabilitation of the Nilwala Basin, jointly organised by The Institution of Engineers, Sri Lanka and Engineering Research Unit, Faculty of Engineering Technology, The Open University of Sri Lanka, January 26 & 27, 1996.
39.	Development & sustainability of user organizations in watershed management in Huruluwewa Watershed	<i>P.G. Somaratna</i> , Consultant March, 1996
40.	Evaluation of Technology adoption in balancing Production & Protection in Huruluwewa Watershed	<i>P.G. Somaratna</i> , Consultant March, 1996
41.	Development & sustainability of user organizations in watershed management in Nilwala Watershed	L.R. Perera, Consultant March, 1996
42.	An analysis of demand, supply and price relations aimed at production scheduling	M.A.B. Anawaratna, Student, Ruhuna University
43.	Evaluation of profitability and productivity of onions, tomato and rice under different irrigation and technology regimes	M.A.B. Anawaratna Student, Ruhuna University