

SEASONAL SUMMARY REPORT
YALA – 2016

Seasonal Summary Report - Yala 2016

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1. Introduction

This review of the seasonal operating plan for Yala 2016 cropping season presents the actual observations and performances of the system as against the plan which was prepared at the beginning of the season.

2. Overview of the plan

The Seasonal Operating Plan has been prepared by adapting the following basis

2.1 Hydrology

30 years of hydrologic records starting from 1983 had been used in examining alternatives. As in the past '80% dry' hydrologic conditions were used to estimate the reliable irrigation water supply, capable of supporting the planned crop with a high degree of reliability. This has been done with the intention of giving a higher priority to irrigation requirements. Diversions and energy generation has also been calculated on the basis of 'Average' hydrologic conditions to indicate the effect of hydrologic variability.

2.1.1 Rainfall

Average and dry monthly rainfall values with respect to each irrigation scheme have been derived from the same data base that had been used in determining average and dry sluice issues. The observed or recorded monthly rainfall of the past season with respect to these same irrigation schemes is given as actual rainfall.

2.2 Macro-System Diversions

The following assumptions, priorities and mandatory releases had been adopted in the calculation of macro system diversions.

2.2.1 Assumptions

- The uncontrolled river flows were assumed to be 90% effective in satisfying the diversion requirements at structures with little head pond storage (Polgolla, Minipe, Elaheera, Angamedilla and Kandakadu).
- The diversions at Polgolla would only be made to meet irrigation deficits along the Amban Ganga.
- The power plants would be operated in such a way that spilling at downstream diversion points be minimized.

2.2.2 Priorities

Generally, irrigation diversions in the Mahaweli complex had been given priority over energy generation. Among irrigation Systems, those having no regulation facilities (storage) were given the highest priority. Those areas with large regulation in relation to cropped area were given the lowest priority.

2.3 Irrigation Systems

The following data and methodology had been adopted in calculating irrigation scheme water requirements.

2.3.1 Crop Data

Target cropping patterns, namely the crop type, extent of each type, starting dates and duration were estimated initially by the irrigation management agencies (MASL & ID) responsible for the particular irrigation scheme. These data may have been subsequently altered to suit the overall availability of water.

2.3.2 Irrigation Requirements

The Irrigation requirements of each scheme were estimated on the basis of hydrology, soil type, crop type, canal distribution system, and recent experience with water use efficiency. This led to the estimation of sluice issue requirements for each scheme.

2.3.3 Diversion Requirements

Knowing the irrigation requirement from the sluice of each tank and the local runoff, tank operation was simulated over the season. This yielded the requirement for diversion into the tank and finally the requirement for diversion into the particular irrigation system.

2.4 Energy Generation

The following procedure had been adopted in estimating the energy generation to be expected from the Mahaweli complex hydropower stations.

2.4.1 Energy Demand

Energy demands on monthly basis over the season had been estimated by CEB prior to the preparation of the plan.

2.4.2 Plant Availability

Plant availability with respect to each power plant also was provided by CEB according to their maintenance program. However, the availability of new plants had been assumed according to their respective commissioning schedules.

2.4.3 Generation

Expected energy generation was subject to uncertainty due to the variability of catchment inflow supplying reservoirs and regulating ponds. The available hydro-electric energy had been estimated initially based on projected irrigation requirements. The potential for generating additional hydro energy without affecting the plan for irrigation releases was then examined by imposing rule curves on the major reservoirs.

3 Comparison of planning and actual system performance

In this section the actual performance of the macro and irrigation systems is compared with the expected system performance, as presented in the Seasonal Operating Plan and subsequent updates.

3.1 Macro System

3.1.1 Diversions

Table 1.1A compares projected and actual diversion at the following locations:

- Polgolla
- Bowatenne
- Elahera
- Angamedilla
- Minipe
- Kandakadu

3.1.2 Reservoir Behavior and Energy Generation

A comparison of planned and actual reservoir behaviors and energy generation are given in the following tables.

Table 1.1B - System Energy Generation
 Table 1.2A - Castlereagh
 Table 1.2B - Moussakele
 Table 1.2C - Samanalawewa
 Table 1.2D - Kotmale
 Table 1.2E - Polgolla
 Table 1.2F - Victoria
 Table 1.2G - Randenigala
 Table 1.2H - Rantambe
 Table 1.2I - Bowatenna

The following figures show the actual reservoir trajectories against the projected ones for comparison.

Figure 3.11 - Castlereagh
 Figure 3.12 - Moussakele
 Figure 3.13 - Kotmale
 Figure 3.14 - Victoria
 Figure 3.15 - Randenigala
 Figure 3.16 - Rantambe
 Figure 3.17 - Bowatenna
 Figure 3.18 – Samanalawewa

3.2 Irrigation Systems

A comparison of planned and actual irrigation system performance is presented in Appendix 2 of this report. The following systems are discussed.

Systems H, IH & MH
 Systems D1 & G
 System D2
 System E
 System B & C
 System A
 System Walawe

3.2.1 Systems H, IH & MH

The comparison of planned and actual diversions within the systems is given in Table 2.1A and Table 2.2A. Comparison of performance scheme by scheme basis is given in the following tables.

Table 2.1B - Dambulu Oya
 Table 2.1C - KHFC
 Table 2.1D - Kandalama
 Table 2.1E - Kalawewa RB
 Table 2.1F - Kalawewa YE
 Table 2.1G - Kalawewa LB
 Table 2.1H - Rajangana
 Table 2.1I - Neela Bemma
 Table 2.2B - Hurulu wewa
 Table 2.2C - Nachchaduwa
 Table 2.2D - Nuwarawewa
 Table 2.2E - Tissawewa

The following figures show the actual tank trajectories. The planned trajectories are also shown for comparison.

Figure 4.11 - Kandalama
 Figure 4.12 - Kalawewa
 Figure 4.13 - Rajangana
 Figure 4.21 - Huruluwewa
 Figure 4.22 - Nachchaduwa
 Figure 4.23 - Nuwarawewa
 Figure 4.24 - Tissawewa

3.2.2 Systems D1, D2 & G

The comparison of planned and actual diversions within the systems is given in Table 2.3A. Comparison of performance on a scheme by scheme basis is given in the following tables.

Table 2.3B - Elahera
 Table 2.3C - Giritale
 Table 2.3D - Minneriya
 Table 2.3E - Kaudulla
 Table 2.3F - Kantale
 Table 2.3G - PSS

The following figures show the actual tank trajectories. The planned trajectories are also shown for comparison.

Figure 4.31 - Giritale
 Figure 4.32 - Minneriya
 Figure 4.33 - Kaudulla
 Figure 4.34 - Kantale
 Figure 4.35 - PSS

3.2.3 System E, C & B

The comparison of planned and actual diversions within the systems is given in Table 2.4A. Comparison of performance on a scheme by scheme basis is given in the following tables.

Table 2.4B – Minipe LB
 Table 2.4C - Sorabora
 Table 2.4D - Mapakada
 Table 2.4E - Dambarawa
 Table 2.4F – Ulhitiya/Rathkinda
 Table 2.4G - Maduru oya LB

The following figures show the actual tank trajectories. The planned trajectories are also shown for comparison.

Figure 4.41- Ulhitiya/Ratkinda
 Figure 4.42- Maduru oya

3.2.4 System A

The comparison of planned and actual diversions and performance are given in Table 2.5A and Table 2.5B respectively.

3.2.5 System Walawe

The comparison of planned and actual diversions within the system is given in Table 2.6A. Comparison of performance on a scheme by scheme basis is given in the following tables.

Table 2.6B – Kaltota
 Table 2.6C – Uda Walawe RB
 Table 2.6D – Uda Walawe LB
 Table 2.6E – Lyangastota LB
 Table 2.6F – Liyangastota RB

The actual and planned trajectories of Uda Walawe reservoir is shown in Figure 4.51 for comparison.

4 Seasonal Highlights 2016 Yala Season

4.1 Macro System

During Yala 2016, the hydrological situation in Mahaweli and Kelani systems was not in a favorable condition. With the depression condition started in mid-May, hydrological situation in all macro reservoirs except Rantambe reservoir were wetter than 20% probability condition. Kotmale reservoir, Polgolla barrage, and Bowatenna reservoir got higher inflows which were doubled of its 20% probability values. During the second half of Yala 2016 season inflow to Mahaweli, Walawe and Kelani systems were drier than the 80% probable condition. There were no inflows to Rantambe reservoir throughout the season except the month of May. During latter part of the season, no inflows were recorded to Victoria and Bowatenna reservoirs as well. In Walawe system hydrological situation of Samanalawewa reservoir was below the long-term average condition and that in Udawalawe reservoir was above the 20% exceedance value.

Victoria reservoir water level was maintained below 426 masl throughout the month of September to facilitate replacement of common hydraulic lines of spillway of the reservoir.

Kotmale power plant was completely shut down for four weeks starting from 8th September for necessary maintenance work of power plant machineries.

Hydro energy generation in Mahaweli system was 46% of the total hydro energy generation (750 GWh) and balance was supplied by Kelani and other systems. Thermal energy generation was 5402 GWh and that was 77% of the total energy generation. (Fig. 4.1)

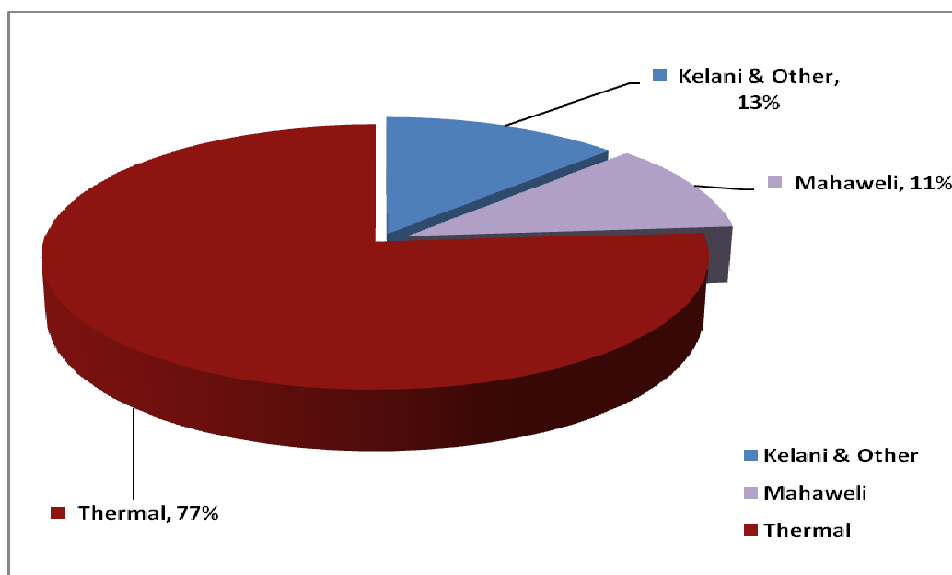


Figure 4.1 – Energy Generation - Yala 2016

4.2 Diversions to Subsystems

Diversions from Polgolla barrage to Amban Ganga system during yala 2016 were increased and it was above the expected long-term average situation in SOP 2016. With high inflows in May, spills from Polgolla barrage increased to 344 mcm and that is three times higher than the expected.

Diversions from Bowatenna to System H, IH and MH were slightly above the average situation. Diversions were made from Kalawewa reservoir to Nachchaduwa feeder canal for supplying water for late cultivation and to Thuruwila tank to cater drinking water supply for NWS&DB during the months of August and September. Diversions were made to Huruluwewa tank during the latter part of the Yala 2016 season.

Diversions from Elaheera to System D1& G were above the long term average situation expected in SOP. Diversions were not made to Kaudulla and Kantale reservoirs throughout the Yala 2016 season as planned.

Diversion to system B and C were above the long term average condition during the season. Even though diversion from Ulhitiya reservoir to Maduru Oya reservoir was not planned diversion was made during the months of May, July, August and September to maintain the Maduruoya reservoir water level around long term average situation due to high evaporation.

4.3 Irrigation Sub Systems

At the start of the season all irrigation reservoirs in Mahaweli and Walawe systems were at favorable condition. Therefore 100% cultivation was planned for Yala 2016 with a paddy & OFC combination except system H area. System H cultivation was limited to 50% by considering Kotmale and Kalawewa available water quantities and expected inflows.

Except system H, Huruluwewa, Elaheera and Minpe LB all other schemes commenced their cultivation during the month of April. System H, Elaheera and Huruluwewa were commenced Yala season during mid May with sufficient water storages of the reservoirs. Mnipe LB stage 3 & 4 was commenced their Yala 2016 cultivation on latter part of March as usual.

Some schemes had taken nearly 15 – 30 days extension after the scheduled dates to complete the season.

**Table 4-1 – Comparison of Actual Hydrological Situation with
statistical parameters – Yala 2016**

Station	Hydrology	Apr	May	Jun	Jul	Aug	Sep	Total
Kotmale	average	42.3	51.0	105.3	105.3	86.3	95.3	485.6
	80%Prob	41.9	34.6	59.3	84.4	69.9	86.4	376.5
	20%Prob	52.7	64.8	158.5	128.1	85.7	139.1	628.9
	Yala 2016	14.8	131.2	75.4	50.1	45.2	51.4	368.2
Polgolla	average	56.3	95.2	124.2	115.6	84.9	82.1	558.4
	80%Prob	56.9	57.9	83.6	90.0	54.1	59.6	402.0
	20%Prob	71.1	144.0	150.7	143.5	104.6	97.6	711.7
	Yala 2016	21.7	351.6	128.0	58.8	55.7	26.1	641.8
Victoria	average	32.0	51.9	43.5	41.9	48.6	30.0	247.9
	80%Prob	35.5	39.7	26.1	43.0	27.3	22.7	194.3
	20%Prob	32.3	60.0	64.3	43.8	58.0	47.6	306.0
	Yala 2016	3.0	64.3	14.6	3.2	0.0	0.0	85.1
Randenigala	average	20.4	26.5	12.8	15.1	18.3	20.1	113.3
	80%Prob	23.1	18.3	12.0	16.0	8.2	13.8	91.3
	20%Prob	16.1	36.7	18.7	19.2	23.9	26.9	141.4
	Yala 2016	21.4	53.0	17.7	22.3	6.9	1.9	123.2
Rantembe	average	61.5	54.2	29.6	32.1	21.9	23.4	222.6
	80%Prob	41.3	44.5	25.3	34.7	20.6	22.9	189.2
	20%Prob	84.5	66.0	34.6	32.1	21.2	22.3	260.7
	Yala 2016	0.0	28.5	0.0	0.0	0.0	0.0	28.5
Bowatenna	average	35.1	26.6	17.2	15.0	13.0	13.2	120.0
	80%Prob	23.7	20.9	13.7	8.3	7.4	8.0	82.0
	20%Prob	49.2	34.6	26.1	21.6	16.9	16.9	165.3
	Yala 2016	0.0	89.0	6.2	0.0	0.0	0.0	95.2
Moussakele	average	23.4	50.1	55.2	52.3	36.2	34.6	251.9
	80%Prob	21.4	40.6	46.6	39.6	30.7	38.2	217.2
	20%Prob	31.4	71.9	52.4	58.7	42.5	40.2	297.1
	Yala 2016	9.8	70.5	40.4	15.4	15.3	12.5	163.9
Castlereigh	average	24.7	27.8	23.8	22.0	20.6	15.8	134.5
	80%Prob	19.7	20.2	18.2	17.3	16.9	12.0	104.3
	20%Prob	42.6	27.7	22.7	30.6	24.7	24.2	172.5
	Yala 2016	14.7	46.9	21.3	11.5	8.8	7.5	110.8
Samanalawewa	average	76.2	59.5	39.5	30.6	23.0	24.1	252.8
	80%Prob	68.6	46.6	28.6	18.0	12.4	22.6	196.8
	20%Prob	76.4	73.8	63.9	41.3	32.7	27.9	315.8
	Yala 2016	35.3	99.6	32.2	11.8	6.6	0.0	185.5
Uda Walawe	average	40.3	35.6	13.2	17.5	7.0	10.1	123.7
	80%Prob	34.0	34.5	7.8	12.0	0.5	3.6	92.3
	20%Prob	53.1	26.7	18.1	43.1	15.6	12.3	168.9
	Yala 2016	117.3	157.3	33.8	26.7	10.4	5.6	351.0

APPENDIX 1

PROJECTED MACRO SYSTEM PERFORMANCE

Table no. : 1.1A
 Title : Mahaweli Complex Projected Diversions

Diversions		Hydro. Condi- -tion	Monthly Diversion Volume (MCM)						Tot
From	To		Apr	May	Jun	Jul	Aug	Sep	
Polgolla	Ambananga	Average	9	9	71	121	82	15	306
		Dry	10	12	80	127	86	18	331
		Actual	26	49	109	116	81	53	434
Bowatenne	System H, IH, MH	Average	14	18	70	75	54	18	250
		Dry	7	19	68	75	54	18	240
		Actual	18	44	70	74	37	10	252
Elahera	System D1 & G	Average	0	5	26	67	44	6	148
		Dry	0	5	26	67	44	4	146
		Actual	19	45	48	46	39	39	236
Angamedilla	System D2	Average	3	25	14	18	12	15	87
		Dry	4	16	12	17	14	15	77
		Actual	16	36	29	15	18	9	123
Minipe LB	System E	Average	35	39	54	19	4	4	154
		Dry	29	34	54	20	4	4	146
		Actual	27	33	43	41	13	0	157
Minipe RB	System B & C	Average	12	102	116	124	48	14	416
		Dry	13	100	121	121	44	5	403
		Actual	64	119	141	136	83	0	543
Kandakadu	System A	Average	22	34	39	32	4	0	131
		Dry	23	31	39	30	4	0	126
		Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.1B
 Title : System Energy Generation

System	Station	Hydro. Condition	Monthly energy generation (GWH)						Tot
			Apr	May	Jun	Jul	Aug	Sep	
M a h a w e l l i	Kotmale	Average	1	6	42	54	41	43	187
		Dry	0	0	26	43	27	42	138
		Actual	2	27	42	39	30	13	153
	Victoria	Average	1	34	62	56	50	58	260
		Dry	2	37	50	34	19	32	173
		Actual	34	37	71	44	43	34	262
	Randeni g a l a	Average	4	26	35	30	18	20	134
		Dry	4	23	29	23	7	2	88
		Actual	23	31	39	33	23	8	157
	Ran t e m b e	Average	4	13	16	14	8	9	64
		Dry	4	12	13	12	4	2	46
		Actual	9	15	16	14	10	3	68
	Uku w e l a	Average	2	2	13	22	15	3	56
		Dry	2	2	15	23	16	3	61
		Actual	5	9	21	22	15	10	82
	Bow a t e n n	Average	0	0	2	7	4	0	13
		Dry	0	0	1	6	4	0	11
		Actual	1	6	4	5	4	4	25
Sub T o t a l	Average	11	82	170	182	137	133	714	
	Dry	12	74	133	141	77	82	517	
	Actual	73	125	193	157	126	72	746	

Table no. : 1.1B (Contd.)
 Title : System Energy Generation

System	Station	Hydro. Condition	Monthly energy generation (GWH)						Tot
			Apr	May	Jun	Jul	Aug	Sep	
K e l a n i &	Canyon	Average	14	21	25	38	27	26	152
		Dry	14	26	22	35	21	21	139
		Actual	12	5	12	13	6	6	53
	New Laxa pana	Average	40	2	3	3	4	3	54
		Dry	43	1	2	2	3	2	53
		Actual	37	33	47	43	25	24	209
	Polpitiy a	Average	41	47	48	51	51	49	286
		Dry	37	37	44	52	51	50	270
		Actual	23	30	46	31	18	18	167
	Wimalasu rendra	Average	12	9	9	8	9	10	57
		Dry	11	8	6	4	7	9	45
		Actual	7	8	14	8	3	5	44
	Laxapana	Average	32	26	24	21	27	27	157
		Dry	30	20	21	20	24	23	137
		Actual	17	26	37	22	13	16	131
	Samanala wewa	Average	0	11	20	45	34	33	142
		Dry	0	22	6	33	21	27	108
		Actual	37	22	33	14	13	3	122
	Kukule	Average	21	25	38	27	26	31	168
		Dry	26	22	35	21	21	17	141
		Actual	14	36	32	13	11	9	115
	Mini Hydro	Average	2	3	3	4	3	2	16
		Dry	1	2	2	3	2	2	12
		Actual	8	9	10	8	2	1	38
Sub Total	Average	161	145	169	197	180	180	1031	
	Dry	162	138	138	168	148	151	905	
	Actual	154	169	231	150	92	82	878	
Total hydro	Average	172	226	338	379	317	313	1746	
	Dry	174	212	270	309	225	233	1423	
	Actual	227	294	424	308	218	154	1624	

Table no. : 1.2A
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Castlereaugh

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	41	42	43	44	45	45	
	Actual	50	50	50	50	50	50	
Energy Generation (GWH)	Avg.	12	9	9	8	9	10	57
	Dry	11	8	6	4	7	9	45
	Actual	7	8	14	8	3	5	44
Power Flow (MCM)	Avg.	24	18	17	15	18	19	112
	Dry	24	16	13	9	12	16	90
	Actual	14	15	27	15	6	10	87
Spill/Downstream Release (MCM)	Avg.	0	0	1	0	0	0	1
	Dry	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0
End Storage (MCM)	Avg.	13	21	27	34	37	33	
	Dry	13	11	5	19	29	23	
	Actual	14	44	39	35	38	36	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2B
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Moussakele

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	50	50	51	52	53	53	
	Actual	50	50	50	50	50	50	
Energy Generation (GWH)	Avg.	14	21	25	38	27	26	152
	Dry	14	26	22	35	21	21	139
	Actual	12	5	12	13	6	6	53
Power Flow (MCM)	Avg.	32	37	40	34	37	36	215
	Dry	31	30	38	23	33	27	182
	Actual	26	11	27	28	14	14	120
Spill/Downstream Release (MCM)	Avg.	0	0	0	0	0	0	0
	Dry	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0
End Storage (MCM)	Avg.	27	37	51	68	67	64	
	Dry	27	30	28	36	35	29	
	Actual	21	78	94	81	83	82	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2C
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Samanalawewa

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	114	118	119	118	115	113	
	Actual	120	120	120	120	120	120	
Energy Generation (GWH)	Avg.	0	11	20	45	34	33	142
	Dry	0	22	6	33	21	27	108
	Actual	37	22	33	14	13	3	122
Power Flow (MCM)	Avg.	0	14	25	56	43	42	180
	Dry	0	22	6	40	31	40	138
	Actual	47	28	42	17	17	4	155
Spill/Downstream Release (MCM)	Avg.	4	5	6	5	4	4	28
	Dry	4	5	5	5	4	4	27
	Actual	5	6	7	8	7	5	38
End Storage (MCM)	Avg.	154	184	184	148	119	92	
	Dry	141	157	146	122	112	87	
	Actual	96	160	145	131	114	109	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2D
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Kotmale

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	198	201	201	168	84	101	
	Actual	134	134	134	134	134	134	
Energy Generation (GWH)	Avg.	1	6	42	54	41	43	187
	Dry	0	0	26	43	27	42	138
	Actual	2	27	42	39	30	13	153
Power Flow (MCM)	Avg.	2	12	80	102	77	82	354
	Dry	0	0	44	82	69	67	262
	Actual	3	50	76	73	57	26	284
Spill/Downstream Release (MCM)	Avg.	0	0	0	0	5	4	9
	Dry	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0
End Storage (MCM)	Avg.	105	143	161	162	166	171	
	Dry	89	119	168	165	165	171	
	Actual	76	154	153	130	119	117	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2E
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Polgolla

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	35	35	35	35	25	35	
	Actual	40	40	40	40	40	40	
Energy Generation (GWH)	Avg.	2	2	13	22	15	3	56
	Dry	2	2	15	23	16	3	61
	Actual	5	9	21	22	15	10	82
Power Flow (MCM)	Avg.	9	9	71	121	82	15	306
	Dry	10	12	80	127	86	18	331
	Actual	26	49	109	116	81	53	434
Spill/Downstream Release (MCM)	Avg.	57	109	142	108	98	165	679
	Dry	67	56	47	37	47	124	378
	Actual	0	344	95	15	31	26	511
End Storage (MCM)	Avg.	0	0	0	0	0	0	
	Dry	0	0	0	0	0	0	
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2F
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Victoria

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	195	175	140	140	175	207	
	Actual	210	210	210	210	210	210	
Energy Generation (GWH)	Avg.	1	34	62	56	50	58	260
	Dry	2	37	50	34	19	32	173
	Actual	34	37	71	44	43	34	262
Power Flow (MCM)	Avg.	1	74	133	119	107	121	555
	Dry	4	80	108	74	42	69	378
	Actual	76	81	145	92	92	72	558
Spill/Downstream Release (MCM)	Avg.	0	4	19	19	3	0	46
	Dry	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0
End Storage (MCM)	Avg.	451	522	542	544	566	631	
	Dry	455	461	455	455	455	485	
	Actual	304	630	600	526	461	413	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2G
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Randenigala

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	120	118	116	114	115	90	
	Actual	120	120	120	120	120	120	
Energy Generation (GWH)	Avg.	4	26	35	30	18	20	134
	Dry	4	23	29	23	7	2	88
	Actual	23	31	39	33	23	8	157
Power Flow (MCM)	Avg.	19	133	182	156	91	101	683
	Dry	22	111	159	129	39	7	467
	Actual	122	170	223	194	145	48	901
Spill/Downstream Release (MCM)	Avg.	0	1	0	4	0	0	5
	Dry	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0
End Storage (MCM)	Avg.	840	808	787	776	808	844	
	Dry	840	791	713	664	770	842	
	Actual	811	781	717	637	591	617	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2H
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Rantembe

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	45	47	47	47	47	48	
	Actual	50	50	50	50	50	50	
Energy Generation (GWH)	Avg.	4	13	16	14	8	9	64
	Dry	4	12	13	12	4	2	46
	Actual	9	15	16	14	10	3	68
Power Flow (MCM)	Avg.	49	161	197	172	102	113	795
	Dry	50	144	166	143	50	24	577
	Actual	120	197	220	194	138	44	913
Spill/Downstream Release (MCM)	Avg.	0	2	0	5	0	0	7
	Dry	0	0	0	0	0	0	0
	Actual	0	0	0	0	0	0	0
End Storage (MCM)	Avg.	6	6	6	6	6	7	
	Dry	6	6	6	6	6	7	
	Actual	5	4	5	4	4	5	

Note : 1 MCM = 0.81 T ac-ft

Table no. : 1.2I
 Title : Projected Macro System Reservoir Behaviour
 Reservoir name : Bowatenna

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Available plant Capacity (MW)	Plan	40	40	40	40	30	20	
	Actual	40	40	40	40	40	40	
Energy Generation (GWH)	Avg.	0	0	2	7	4	0	13
	Dry	0	0	1	6	4	0	11
	Actual	1	6	4	5	4	4	25
Power Flow (MCM)	Avg.	0	0	13	54	33	0	101
	Dry	0	0	10	48	30	0	88
	Actual	7	53	38	40	35	34	207
Spill/Downstream Release (MCM)	Avg.	2	2	2	2	2	2	11
	Dry	2	2	2	2	2	2	11
	Actual	3	44	3	3	3	3	59
End Storage (MCM)	Avg.	21	21	22	22	22	23	
	Dry	21	20	20	20	21	22	
	Actual	14	11	17	14	10	6	

Note : 1 MCM = 0.81 T ac-ft

APPENDIX 2

PROJECTED IRRIGATION SYSTEM PERFORMANCE

Table no. : 2.1A
 Title : Projected Irrigation System Diversions
 Irrigation System : System H

Diversions		Hydro.	Monthly diversion volume (MCM)							
From	To	Condition	Apr	May	Jun	Jul	Aug	Sep	Tot	
Bowaten ne	Dambulu Oya	Average	14.0	7.3	52.7	54.0	39.7	15.3	183.0	
		Dry	10.5	7.0	51.9	52.0	39.8	15.0	176.2	
		Actual	13.9	40.0	54.5	58.7	16.7	.0	183.7	
Bowaten ne	KHF Can al	Average	.0	11.0	16.7	21.3	14.6	2.9	66.5	
		Dry	.0	11.4	14.8	21.4	13.0	2.8	63.4	
		Actual	4.0	3.7	15.2	15.3	20.3	9.5	68.1	
KHFC @ KHB	Kandala ma	Average	.0	10.0	10.6	10.9	4.6	.0	36.1	
		Dry	.0	9.8	10.8	10.8	1.9	.0	33.3	
		Actual	3.1	3.6	9.2	4.8	4.5	.7	25.9	
Dambulu Oya	Kalawew a	Average	33.1	10.0	50.6	50.8	38.0	16.8	199.3	
		Dry	26.5	10.2	50.0	48.3	37.1	17.0	189.1	
		Actual	15.6	53.0	47.9	55.8	16.7	1.4	190.4	

Note : 1 MCM = 0.81 TAF

Table no. : 2.1B
 Title : Projected Irrigation System Water use
 Scheme name : Dambulu Oya

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	460	716	MAY 05	May 24	AUG 25	Sep 9
Upland crops	690	911		May 24		Sep 9
Total	1150	1627				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot	
		Apr	May	Jun	Jul	Aug	Sep		
Water Issues (MCM)	Avg	.0	2.1	2.5	3.7	2.5	.0	10.8	
	Dry	.0	2.1	2.5	3.3	2.4	.0	10.3	
	Actual	.0	1.2	4.6	4.2	4.1	1.7	15.8	
Water duty (M)	Avg.	.00	.18	.22	.33	.21	.00	.94	
	Dry	.00	.18	.22	.29	.21	.00	.90	
	Actual	.00	.08	.28	.26	.25	.10	.97	
End Storage (MCM)	Avg.								
	Dry		Not Estimated						
	Actual								
Rain fall (mm)	Avg.	163.9	79.3	20.8	25.5	25.6	70.6	385.7	
	Dry	99.5	71.8	13.2	31.0	12.0	45.1	272.6	
	Actual	92.6	452.3	8.7	6.5	.0	.0	560.1	

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1C
 Title : Projected Irrigation System Water use
 Scheme name : KHFC Scheme

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Upland crops	1125	1118	MAY 20	Jun 5	SEP 10	Sep 18
Total	1125	1399				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	.0	1.0	3.7	5.6	6.0	2.3	18.6
	Dry	.0	1.0	3.6	5.7	4.8	2.0	17.1
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water duty (M)	Avg.	.00	.09	.33	.49	.53	.21	1.65
	Dry	.00	.09	.32	.51	.43	.18	1.53
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rain fall (mm)	Avg.	163.9	79.3	20.8	25.5	25.6	70.6	385.7
	Dry	99.5	71.8	13.2	31.0	12.0	45.1	272.6
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1D
 Title : Projected Irrigation System Water use
 Scheme name : Kandalama

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	900	1082	MAY 10	May 23	AUG 31	Sep 10
Upland crops	1350	1013		May 23		Sep 10
Total	2250	2096				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	.0	5.3	6.4	9.5	6.3	.0	27.5
	Dry	.0	5.4	6.4	8.6	6.1	.0	26.5
	Actual	.0	3.8	19.2	10.9	13.5	3.9	51.3
Water duty (M)	Avg.	.00	.23	.28	.42	.28	.00	1.21
	Dry	.00	.24	.28	.38	.27	.00	1.17
	Actual	.00	.18	.92	.52	.64	.19	2.45
End Storage (MCM)	Avg.	23.0	27.7	30.9	31.8	30.2	29.8	
	Dry	19.2	24.4	28.3	29.3	26.9	26.4	
	Actual	23.4	9.5	29.0	21.4	10.7	7.3	
Rain fall (mm)	Avg.	163.9	79.3	20.8	25.5	25.6	70.6	385.7
	Dry	99.5	71.8	13.2	31.0	12.0	45.1	272.6
	Actual	126.6	410.7	9.1	10.7	.0	.0	557.1

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1E
 Title : Projected Irrigation System Water use
 Scheme name : Kalawewa RB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	1400	2694	MAY 20	May 20	SEP 10	Sep 14
Upland crops	5603	4028		May 20		Sep 14
Total	7003	6722				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	.0	6.2	19.1	27.5	24.3	4.8	81.9
	Dry	.0	6.5	18.3	23.6	24.5	4.7	77.6
	Actual	1.8	9.2	32.5	37.7	41.6	21.0	144.0
Water duty (M)	Avg.	.00	.09	.27	.39	.35	.07	1.17
	Dry	.00	.09	.26	.34	.35	.07	1.11
	Actual	.03	.14	.48	.56	.62	.31	2.14
End Storage (MCM)	Avg.	111.3	105.8	112.1	108.8	101.1	104.3	
	Dry	96.8	96.2	105.7	99.7	90.9	91.6	
	Actual	77.6	119.6	111.3	102.2	55.4	23.6	
Rain fall (mm)	Avg.	163.9	79.3	20.8	25.5	25.6	70.6	385.7
	Dry	99.5	71.8	13.2	31.0	12.0	45.1	272.6
	Actual	8.2	336.4	.0	.0	.0	.0	344.6

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1F
 Title : Projected Irrigation System Water use
 Scheme name : Kalawewa YE

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	945	1663	MAY 15	May 15	SEP 05	Sep 12
Upland crops	1416	820		May 15		Sep 12
Total	2361	2483				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg.	.0	1.3	4.6	5.6	5.0	.9	17.4
	Dry	.0	1.4	4.5	4.9	5.1	.9	16.8
	Actual	1.1	2.1	6.2	6.7	6.3	3.2	25.5
Water duty (M)	Avg.	.00	.06	.20	.24	.21	.04	.75
	Dry	.00	.06	.19	.21	.21	.04	.71
	Actual	.04	.08	.25	.27	.25	.13	1.03
Rain fall (mm)	Avg.	163.9	79.3	20.8	25.5	25.6	70.6	385.7
	Dry	99.5	71.8	13.2	31.0	12.0	45.1	272.6
	Actual	8.2	336.4	.0	.0	.0	.0	344.6

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1G
 Title : Projected Irrigation System Water use
 Scheme name : Kalawewa LB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	1328	1759	MAY 15	May 15	SEP 05	Sep 13
Upland crops	1991	1997		May 15		Sep 13
Total	3319	3756				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg.	.0	2.6	9.1	11.0	9.9	1.7	34.3
	Dry	.0	2.7	8.8	9.7	10.0	1.6	32.8
	Actual	1.1	6.5	13.8	14.1	16.6	4.9	57.0
Water duty (M)	Avg.	.00	.08	.27	.33	.30	.05	1.03
	Dry	.00	.08	.27	.29	.30	.05	.99
	Actual	.03	.17	.37	.38	.44	.13	1.52
Rain fall (mm)	Avg.	163.9	79.3	20.8	25.5	25.6	70.6	385.7
	Dry	99.5	71.8	13.2	31.0	12.0	45.1	272.6
	Actual	8.2	336.4	.0	.0	.0	.0	344.6

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1H
 Title : Projected Irrigation System Water use
 Scheme name : Rajangana

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	4328	4774	APR 01	Apr 4	JUL 31	Aug 25
Upland crops	2886	640		Apr 4		Aug 25
Total	7214	5414				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	13.0	20.1	30.2	22.9	.0	.0	86.2
	Dry	10.9	18.0	30.8	21.8	.0	.0	81.5
	Actual	22.8	17.4	23.3	28.7	19.6	13.0	124.7
Water duty (M)	Avg.	.18	.28	.42	.32	.00	.00	1.20
	Dry	.15	.25	.43	.30	.00	.00	1.13
	Actual	.42	.32	.43	.53	.36	.24	2.30
End Storage (MCM)	Avg.	94.1	79.3	51.7	35.3	43.5	45.9	
	Dry	90.4	70.0	41.8	25.0	33.8	35.9	
	Actual	81.1	96.0	86.8	71.6	61.3	52.1	
Rain fall (mm)	Avg.	161.6	72.8	18.4	23.1	22.8	53.4	352.1
	Dry	70.2	70.0	15.7	17.0	11.2	23.3	207.4
	Actual	131.2	325.5	3.5	.0	.0	.0	460.2

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.1I
 Title : Projected Irrigation System Water use
 Scheme name : Neela Bemma

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	414	202	APR 01	Apr 20	JUL 31	Aug 27
Upland crops	276	404		Apr 20		Aug 27
Total	690	607				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg.	1.3	1.8	2.7	1.8	.0	.0	7.6
	Dry	1.1	1.9	2.7	1.5	.0	.0	7.2
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water duty (M)	Avg.	.19	.26	.40	.26	.00	.00	1.11
	Dry	.15	.27	.39	.22	.00	.00	1.03
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rain fall (mm)	Avg.	161.6	72.8	18.4	23.1	22.8	53.4	352.1
	Dry	70.2	70.0	15.7	17.0	11.2	23.3	207.4
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.2A
 Title : Projected Irrigation System Diversions
 Irrigation System : System MH+IH

Diversions		Hydro.	Monthly diversion volume (MCM)							
From	To	Condition	Apr	May	Jun	Jul	Aug	Sep	Tot	
KHFC @ SM	Huruluw ewa	Average	.0	.0	2.4	4.8	4.0	.6	11.8	
		Dry	.0	.0	2.5	4.3	2.5	.1	9.4	
		Actual	.0	.0	1.0	2.5	1.4	.6	5.5	
Kalawew a	Nachcha duwa	Average	2.8	4.1	4.5	4.7	4.5	4.5	25.1	
		Dry	.8	3.9	4.5	4.7	4.5	4.5	22.9	
		Actual	.0	.0	.0	.0	.9	1.1	1.9	
Kalawew a	Tissawe wa	Average	1.8	1.8	1.8	1.9	.0	.0	7.3	
		Dry	1.7	1.7	1.8	1.9	.0	.0	7.1	
		Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Nachcha duwa	Nuwaraw ewa	Average	.8	1.5	.6	.3	.4	2.0	5.6	
		Dry	.6	.9	.0	.1	.0	1.8	3.4	
		Actual	.0	151.4	3.2	.8	1.5	1.6	158.5	

Note : 1 MCM = 0.81 TAF

Table no. : 2.2B
 Title : Projected Irrigation System Water use
 Scheme name : Hurulu Wewa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	1720	809	APR 25	May 2	AUG 15	Aug 25
Upland crops	2580	3400		May 2		Aug 25
Total	4300	4210				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	2.2	7.0	10.2	11.9	4.4	.0	35.7
	Dry	2.1	6.9	9.4	11.2	4.1	.0	33.7
	Actual	.0	5.0	9.3	8.0	11.3	2.0	35.7
Water duty (M)	Avg.	.05	.16	.24	.28	.10	.00	.83
	Dry	.05	.16	.22	.26	.09	.00	.78
	Actual	.00	.12	.22	.19	.27	.05	.85
End Storage (MCM)	Avg.	53.1	44.3	34.0	25.3	23.8	23.9	
	Dry	51.4	40.7	30.0	21.4	22.4	21.9	
	Actual	53.7	63.0	51.5	41.1	26.5	22.5	
Rain fall (mm)	Avg.	126.5	78.2	18.8	34.2	46.7	96.4	400.8
	Dry	96.2	49.2	5.5	28.8	20.9	97.1	297.7
	Actual	89.0	491.5	.0	32.1	.0	.0	612.6

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.2C
 Title : Projected Irrigation System Water use
 Scheme name : Nachchaduwa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	750	2010	APR 25	Apr 30	AUG 15	Sep 15
Upland crops	2220	1012		Apr 30		Sep 15
Total	2970	3022				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	1.2	6.1	9.1	11.4	5.0	.0	32.8
	Dry	1.2	5.4	8.5	11.3	4.6	.0	31.0
	Actual	.2	3.2	5.2	5.3	8.4	5.4	27.7
Water duty (M)	Avg.	.04	.20	.31	.38	.17	.00	1.10
	Dry	.04	.18	.29	.38	.15	.00	1.04
	Actual	.01	.10	.17	.17	.28	.18	.91
End Storage (MCM)	Avg.	50.4	47.1	38.7	29.6	27.2	29.7	
	Dry	45.8	42.6	34.7	25.6	23.4	25.9	
	Actual	40.6	55.0	44.0	32.2	20.1	15.3	
Rain fall (mm)	Avg.	150.4	67.3	14.5	25.6	31.8	63.7	353.3
	Dry	102.9	39.5	4.1	5.6	22.1	50.6	224.8
	Actual	244.3	476.4	.0	3.6	.0	.0	724.4

Only for domestic use
 NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON
 Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.2D
 Title : Projected Irrigation System Water use
 Scheme name : Nuwara Wewa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	765	809	APR 20	Apr 17	AUG 10	Aug 29
Upland crops	255	0				
Total	1020	809				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	1.9	3.9	5.2	5.4	1.4	.0	17.8
	Dry	1.8	3.5	5.2	5.4	1.3	.0	17.2
	Actual	2.3	4.8	3.6	3.9	4.3	.0	18.9
Water duty (M)	Avg.	.18	.39	.51	.53	.13	.00	1.74
	Dry	.18	.34	.51	.53	.13	.00	1.69
	Actual	.28	.59	.45	.49	.53	.00	2.33
End Storage (MCM)	Avg.	34.7	30.3	23.5	16.8	14.9	16.1	
	Dry	33.5	28.6	21.3	14.4	12.0	13.1	
	Actual	34.1	40.9	33.8	27.5	21.3	19.0	
Rain fall (mm)	Avg.	150.4	67.3	14.5	25.6	31.8	63.7	353.3
	Dry	102.9	39.5	4.1	5.6	22.1	50.6	224.8
	Actual	244.3	476.4	.0	3.6	.0	.0	724.4

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.2E
 Title : Projected Irrigation System Water use
 Scheme name : Tissawewa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	104	242	APR 25	Apr 27	AUG 15	Sep 17
Upland crops	416	0				
Total	520	242				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	.3	1.0	1.6	1.9	.9	.0	5.7
	Dry	.3	.9	1.5	1.9	.8	.0	5.4
	Actual	.1	.8	1.2	.7	.6	.3	3.7
Water duty (M)	Avg.	.05	.20	.30	.37	.17	.00	1.09
	Dry	.05	.18	.28	.36	.15	.00	1.02
	Actual	.03	.33	.50	.29	.27	.12	1.54
End Storage (MCM)	Avg.	3.9	4.0	3.5	2.9	1.8	1.6	
	Dry	3.9	3.7	3.2	2.5	1.4	1.3	
	Actual	2.4	3.8	2.9	2.1	1.2	.9	
Rain fall (mm)	Avg.	150.4	67.3	14.5	25.6	31.8	63.7	353.3
	Dry	102.9	39.5	4.1	5.6	22.1	50.6	224.8
	Actual	244.3	476.4	.0	3.6	.0	.0	724.4

Only for domestic use
 NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON
 Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.3A
 Title : Projected Irrigation System Diversions
 Irrigation System : System D & G

Diversions		Hydro.	Monthly diversion volume (MCM)							
From	To	Condition	Apr	May	Jun	Jul	Aug	Sep	Tot	
Elahera	System D1 & G	Average	.0	4.7	25.8	67.0	44.1	5.9	147.5	
		Dry	.0	4.7	25.8	67.0	44.1	4.4	146.0	
		Actual	19.4	44.7	48.2	46.2	39.1	38.6	236.2	
Diyabed uma	Girital e	Average	.0	.0	9.7	2.3	3.0	.0	15.0	
		Dry	.0	.0	9.7	2.3	1.4	.0	13.4	
		Actual	4.4	12.4	7.8	9.6	.9	4.0	39.1	
Diyabed uma	Minneri ya	Average	.0	.0	.0	44.5	22.4	.0	66.9	
		Dry	.0	.0	.0	44.1	21.4	.0	65.5	
		Actual	8.7	26.3	.0	5.2	.8	4.0	45.0	
Minneri ya	Kaudull a	Average	.0	.0	.0	.0	.0	.0	.0	
		Dry	.0	.0	.0	.0	.0	.0	.0	
		Actual	.0	.0	.0	.0	.0	.0	.0	
Minneri ya	Kantale	Average	.0	.0	.0	.0	.0	.0	.0	
		Dry	.0	.0	.0	.0	.0	.0	.0	
		Actual	.0	7.4	.0	.0	.0	.0	7.4	
Angamed illa	System D2	Average	2.9	25.1	13.9	17.7	12.4	15.0	87.0	
		Dry	3.6	15.9	12.3	16.5	13.8	15.1	77.2	
		Actual	15.6	36.0	29.3	14.7	17.7	9.2	122.6	

Note : 1 MCM = 0.81 TAF

Table no. : 2.3B
 Title : Projected Irrigation System Water use
 Scheme name : Elahera

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	1400	4534	MAY 15	May 23	SEP 10	Sep 18
Upland crops	2100	809		May 23		Sep 18
Total	3500	5344				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot	
		Apr	May	Jun	Jul	Aug	Sep		
Water Issues (MCM)	Avg	.0	4.7	15.0	14.9	15.8	5.9	56.3	
	Dry	.0	4.6	14.7	14.9	14.5	5.6	54.3	
	Actual	.0	6.9	30.0	20.1	22.1	21.2	100.4	
Water duty (M)	Avg.	.00	.13	.43	.43	.45	.17	1.61	
	Dry	.00	.13	.42	.43	.41	.16	1.55	
	Actual	.00	.13	.56	.38	.41	.40	1.88	
End Storage (MCM)	Avg.								
	Dry		No Storage Available						
	Actual		No Storage Available						
Rain fall (mm)	Avg.	121.1	79.0	6.6	29.4	42.8	84.5	363.4	
	Dry	99.5	20.5	1.1	16.2	36.8	83.0	257.1	
	Actual	97.7	230.3	4.2	27.5	1.8	.0	361.5	

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.3C
 Title : Projected Irrigation System Water use
 Scheme name : Giritale

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	1400	3076	APR 02	Apr 16	JUL 31	Aug 25
Upland crops	1050	0				
Total	2450	3076				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	5.8	6.8	10.7	6.9	.0	.0	30.2
	Dry	5.5	6.4	10.6	6.5	.0	.0	29.0
	Actual	6.2	8.7	9.8	7.8	5.3	.9	38.7
Water duty (M)	Avg.	.24	.28	.44	.28	.00	.00	1.24
	Dry	.22	.26	.43	.26	.00	.00	1.17
	Actual	.20	.28	.32	.25	.17	.03	1.26
End Storage (MCM)	Avg.	20.2	12.9	11.0	5.6	8.1	7.6	
	Dry	19.5	12.0	10.0	4.7	5.7	5.3	
	Actual	23.1	23.9	18.2	13.6	7.8	8.9	
Rain fall (mm)	Avg.	93.3	66.8	12.9	49.2	63.4	98.4	384.0
	Dry	74.7	37.4	15.2	21.6	36.7	100.9	286.5
	Actual	64.7	263.5	.0	32.3	.0	.0	360.5

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.3D
 Title : Projected Irrigation System Water use
 Scheme name : Minneriya

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	9825	9099	APR 20	Apr 18	AUG 15	Aug 27
Total	9825	9099				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	7.9	27.9	28.2	26.6	7.1	.0	97.7
	Dry	7.5	26.8	27.4	25.5	6.3	.0	93.5
	Actual	10.5	20.8	25.1	25.4	22.7	2.7	107.3
Water duty (M)	Avg.	.08	.28	.29	.27	.07	.00	.99
	Dry	.08	.27	.28	.26	.06	.00	.95
	Actual	.12	.23	.28	.28	.25	.03	1.18
End Storage (MCM)	Avg.	120.2	88.7	53.7	67.0	77.4	73.0	
	Dry	116.3	83.9	49.0	60.8	70.1	66.4	
	Actual	121.9	121.1	85.3	64.5	40.9	35.0	
Rain fall (mm)	Avg.	93.3	66.8	12.9	49.2	63.4	98.4	384.0
	Dry	74.7	37.4	15.2	21.6	36.7	100.9	286.5
	Actual	71.0	331.0	.0	80.0	.0	.0	482.0

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.3E
 Title : Projected Irrigation System Water use
 Scheme name : Kaudulla

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	4554	5465	APR 20	Apr 20	AUG 15	Aug 18
Upland crops	506	0				
Total	5060	5465				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	3.9	14.8	15.8	14.9	4.1	.0	53.5
	Dry	3.7	14.3	15.3	14.2	3.6	.0	51.1
	Actual	6.6	12.8	12.2	10.4	8.1	1.9	52.0
Water duty (M)	Avg.	.08	.29	.31	.29	.08	.00	1.05
	Dry	.07	.28	.30	.28	.07	.00	1.00
	Actual	.12	.23	.22	.19	.15	.04	.95
End Storage (MCM)	Avg.	113.9	94.4	71.5	51.0	42.9	40.2	
	Dry	112.5	91.7	68.7	48.0	38.9	36.1	
	Actual	100.6	99.6	74.8	58.4	43.8	38.1	
Rain fall (mm)	Avg.	93.3	66.8	12.9	49.2	63.4	98.4	384.0
	Dry	74.7	37.4	15.2	21.6	36.7	100.9	286.5
	Actual	30.2	256.1	.0	134.7	131.7	.0	552.7

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.3F
 Title : Projected Irrigation System Water use
 Scheme name : Kantale

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	7708	8222	APR 10	Apr 7	AUG 10	Aug 25
Upland crops	1152	0				
Total	8860	8222				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	5.7	23.9	35.5	25.7	1.0	.0	91.8
	Dry	5.8	21.4	35.0	24.5	1.5	.0	88.2
	Actual	10.4	21.2	24.7	20.7	15.7	1.2	93.9
Water duty (M)	Avg.	.06	.27	.40	.29	.01	.00	1.03
	Dry	.07	.24	.40	.28	.02	.00	1.01
	Actual	.13	.26	.30	.25	.19	.01	1.14
End Storage (MCM)	Avg.	105.1	79.5	38.0	8.8	8.0	9.4	
	Dry	102.6	74.0	32.2	3.1	2.3	3.5	
	Actual	100.9	104.5	77.2	57.5	37.6	32.2	
Rain fall (mm)	Avg.	93.3	66.8	12.9	49.2	63.4	98.4	384.0
	Dry	74.7	37.4	15.2	21.6	36.7	100.9	286.5
	Actual	4.7	300.3	.0	67.9	5.0	18.0	395.9

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.3G
 Title : Projected Irrigation System Water use
 Scheme name : Parakrama Samudra

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	8292	10197	APR 18	Apr 18	AUG 10	Aug 21
Upland crops	2073	0				
Total	10365	10197				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	7.5	31.7	31.3	34.1	10.8	.0	115.4
	Dry	7.3	30.7	30.6	32.4	10.2	.0	111.2
	Actual	23.3	34.7	42.5	42.1	25.8	4.1	172.6
Water duty (M)	Avg.	.07	.31	.30	.33	.10	.00	1.11
	Dry	.07	.30	.30	.31	.10	.00	1.08
	Actual	.23	.34	.42	.41	.25	.04	1.69
End Storage (MCM)	Avg.	134.9	118.3	90.9	65.2	59.7	68.2	
	Dry	134.9	111.9	83.5	57.0	51.9	59.8	
	Actual	127.7	126.9	107.3	82.4	65.9	65.1	
Rain fall (mm)	Avg.	86.1	57.9	9.0	27.8	50.0	96.7	327.5
	Dry	34.5	46.5	11.3	14.4	44.5	56.2	207.4
	Actual	119.0	360.0	.0	57.0	11.0	.0	547.0

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.4A
 Title : Projected Irrigation System Diversions
 Irrigation System : System E, C & B

Diversions		Hydro.	Monthly diversion volume (MCM)							
From	To	Condition	Apr	May	Jun	Jul	Aug	Sep	Tot	
Minipe	System E	Average	34.5	38.6	53.9	19.2	4.1	4.1	154.4	
		Dry	29.3	33.8	54.1	20.1	4.1	4.1	145.5	
		Actual	27.0	32.5	43.5	41.2	13.0	.0	157.3	
Minipe	System C & B	Average	12.3	102.1	116.4	124.4	47.5	13.6	416.3	
		Dry	13.3	100.0	121.2	120.5	43.6	4.7	403.3	
		Actual	64.4	118.5	140.8	136.0	83.0	.0	542.7	
Minipe RB	Sorabora Wewa	Average	1.0	2.7	3.1	2.7	2.3	.5	12.3	
		Dry	1.0	2.7	3.1	2.7	2.3	.5	12.3	
		Actual	.4	1.1	1.1	1.1	.9	.0	4.7	
Minipe RB	Mapakada Wewa	Average	.9	4.1	3.6	4.0	4.2	.4	17.2	
		Dry	.9	4.1	3.6	4.0	4.2	.4	17.2	
		Actual	2.1	2.4	5.4	.0	6.2	.0	16.1	
Minipe RB	Dambarawa Wewa	Average	.1	.6	1.0	2.3	1.8	.0	5.8	
		Dry	.1	.6	1.0	2.3	1.8	.0	5.8	
		Actual	.0	.0	2.9	5.7	3.3	.0	11.8	
Minipe RB	Ulhitiya	Average	10.4	94.7	108.6	115.5	39.1	12.7	381.0	
		Dry	11.4	92.6	113.4	111.5	35.3	3.8	368.0	
		Actual	37.4	131.2	139.2	129.9	83.9	.0	521.7	
Ulhitiya a	Maduru Oya	Average	.0	.0	.0	.0	.0	.0	.0	
		Dry	.0	.0	.0	.0	.0	.0	.0	
		Actual	.0	26.4	.0	13.0	16.1	7.0	62.4	

Note : 1 MCM = 0.81 TAF

Table no. : 2.4B
 Title : Projected Irrigation System Water use
 Scheme name : System E - Minipe LB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	4518	7020	MAR 25	Mar 25	JUL 26	Jul 26
Upland crops	3012	0				
Total	7530	7020				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	40.1	41.2	54.3	19.5	.0	.0	155.1
	Dry	34.4	39.1	54.3	18.8	.0	.0	146.6
	Actual	27.0	32.5	43.5	41.2	13.0	.0	157.3
Water duty (M)	Avg.	.53	.55	.72	.26	.00	.00	2.06
	Dry	.46	.52	.72	.25	.00	.00	1.95
	Actual	.38	.46	.62	.59	.19	.00	2.24
End Storage (MCM)	Avg.	No Storage Available						
	Dry	No Storage Available						
	Actual	No Storage Available						
Rain fall (mm)	Avg.	158.3	76.8	29.5	34.8	27.4	98.7	425.5
	Dry	132.5	49.1	2.0	8.8	9.9	56.7	259.0
	Actual	7.0	163.4	.0	54.2	.0	.0	224.6

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.4C
 Title : Projected Irrigation System Water use
 Scheme name : Sorabora wewa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	607	809	APR 01	Apr 2	JUL 25	Aug 29
Upland crops	203	0				
Total	810	809				

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.4D
 Title : Projected Irrigation System Water use
 Scheme name : Mapakada wewa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	412	303	APR 01	Apr 1	JUL 25	Aug 30
Upland crops	138	101		Apr 1		Aug 30
Total	550	404				

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.4E
 Title : Projected Irrigation System Water use
 Scheme name : Dambarawa wewa

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	457	506	APR 01	Apr 2	JUL 25	Aug 24
Upland crops	153	101		Apr 2		Aug 24
Total	610	607				

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.4F
 Title : Projected Irrigation System Water use
 Scheme name : Ulhitiya

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	18241	22801	APR 20	Apr 20	AUG 20	Aug 21
Upland crops	4560	0				
Total	22801	22801				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	22.3	102.6	108.4	112.8	32.4	.0	378.5
	Dry	20.5	100.2	105.9	108.4	32.3	.0	367.3
	Actual	44.0	108.4	105.7	128.4	72.6	2.0	461.1
Water duty (M)	Avg.	.10	.45	.48	.49	.14	.00	1.66
	Dry	.09	.44	.46	.48	.14	.00	1.61
	Actual	.19	.48	.46	.56	.32	.01	2.02
End Storage (MCM)	Avg.	140.9	134.4	129.9	128.6	131.1	140.7	
	Dry	139.5	128.0	120.4	112.8	112.4	136.6	
	Actual	128.9	126.1	127.4	106.8	89.6	75.9	
Rain fall (mm)	Avg.	134.5	70.4	22.3	35.6	35.1	90.4	388.3
	Dry	88.7	64.0	4.0	13.9	26.3	79.5	276.4
	Actual	69.6	225.1	.0	8.0	.0	.0	302.7

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.4G
 Title : Projected Irrigation System Water use
 Scheme name : Maduru Oya LB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	16781	18725	APR 20	Apr 25	AUG 20	Aug 30
Upland crops	1864	655		Apr 25		Aug 30
Total	18645	19380				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	24.1	88.9	93.8	93.9	31.4	.0	332.1
	Dry	23.2	80.3	93.7	90.7	33.2	.0	321.1
	Actual	30.8	85.7	85.0	85.4	78.4	11.6	376.9
Water duty (M)	Avg.	.13	.48	.50	.50	.17	.00	1.78
	Dry	.12	.43	.50	.49	.18	.00	1.72
	Actual	.16	.44	.44	.44	.40	.06	1.94
End Storage (MCM)	Avg.	503.6	417.4	313.0	212.4	175.4	172.6	
	Dry	495.7	396.3	292.1	191.3	159.0	155.1	
	Actual	477.3	417.7	314.4	234.0	177.6	165.4	
Rain fall (mm)	Avg.	52.4	53.7	6.4	41.2	40.9	83.4	278.0
	Dry	26.0	29.1	7.3	9.1	5.5	67.8	144.8
	Actual	.0	230.0	.0	56.0	35.0	.0	321.0

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.5A
 Title : Projected Irrigation System Diversions
 Irrigation System : System A

Diversions		Hydro.	Monthly diversion volume (MCM)							
From	To	Condition	Apr	May	Jun	Jul	Aug	Sep	Tot	
KANDAKA	SYSTEM	Average	22.3	33.7	38.8	31.8	4.3	.0	130.9	
DU	A - ALL	Dry	22.5	31.3	38.7	29.9	3.5	.0	125.9	
	AI	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Note : 1 MCM = 0.81 TAF

Table no. : 2.5B
 Title : Projected Irrigation System Water use
 Scheme name : System A - Allai

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	6345	3606	APR 01	Apr 5	AUG 15	Sep 7
Upland crops	705	0				
Total	7050	3606				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg.	22.3	33.7	38.8	31.8	4.3	.0	130.9
	Dry	22.5	31.3	38.7	29.9	3.5	.0	125.9
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water duty (M)	Avg.	.32	.48	.55	.45	.06	.00	1.86
	Dry	.32	.44	.55	.42	.05	.00	1.78
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
End Storage (MCM)	Avg.	No Storage Available						
	Dry	No Storage Available						
	Actual	No Storage Available						
Rain fall (mm)	Avg.	45.8	54.3	16.6	44.3	79.3	88.3	328.6
	Dry	17.4	31.8	9.8	20.8	61.5	22.6	163.9
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.6A
 Title : Projected Irrigation System Diversions
 Irrigation System : System WALAWE (

Diversions		Hydro.	Monthly diversion volume (MCM)							
From	To	Condition	Apr	May	Jun	Jul	Aug	Sep	Tot	
KALTOTA AMUNA	LB & RB CANALS	Average	3.3	6.7	7.1	5.6	.5	.0	23.2	
		Dry	3.3	5.8	7.5	4.8	.5	.0	21.9	
		Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LIYANGA STOTA	LB CANA L	Average	5.5	13.8	16.3	16.6	3.2	.0	55.4	
		Dry	5.3	11.9	16.4	16.6	3.3	.0	53.5	
		Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LIYANGA STOTA	RB CANA L	Average	9.6	11.8	14.8	10.7	.0	.0	46.9	
		Dry	9.2	10.1	15.0	10.6	.0	.0	44.9	
		Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Note : 1 MCM = 0.81 TAF

Table no. : 2.6B
 Title : Projected Irrigation System Water use
 Scheme name : Kaltota Amuna

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	915	N/A	APR 05	N/A	AUG 05	N/A
Total	915					

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	3.3	6.7	7.1	5.6	.5	.0	23.2
	Dry	3.3	5.8	7.5	4.8	.5	.0	21.9
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water duty (M)	Avg.	.37	.73	.78	.61	.05	.00	2.54
	Dry	.36	.64	.82	.53	.05	.00	2.40
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rain fall (mm)	Avg.	309.7	134.5	77.3	66.9	44.8	94.3	727.5
	Dry	252.0	107.8	56.6	45.5	57.8	92.5	612.2
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.6C
 Title : Projected Irrigation System Water use
 Scheme name : Udawalawe RB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	6047	7250	APR 20	Apr 22	AUG 10	Aug 27
Upland crops	5961	3917		Apr 22		Aug 27
Sugarcane	86	86	APR 01	Apr 22	SEP 30	Aug 27
Total	12094	11253				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	11.2	53.3	44.6	59.0	31.2	.2	199.5
	Dry	11.6	44.5	38.9	56.2	31.6	.2	183.0
	Actual	43.9	60.0	58.7	62.7	48.4	4.0	277.8
Water duty (M)	Avg.	.09	.44	.37	.49	.26	.00	1.65
	Dry	.10	.37	.32	.46	.26	.00	1.51
	Actual	.39	.53	.52	.56	.43	.04	2.47
End Storage (MCM)	Avg.	254.4	209.1	162.7	129.8	122.0	169.9	
	Dry	247.9	197.9	136.7	80.3	58.7	101.9	
	Actual	272.8	261.5	219.4	135.7	63.5	56.3	
Rain fall (mm)	Avg.	185.9	131.5	70.4	64.3	55.5	91.2	598.8
	Dry	124.5	113.9	50.3	33.9	68.8	84.4	475.8
	Actual	125.0	167.2	.0	3.5	.0	.0	295.7

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.6D
 Title : Projected Irrigation System Water use
 Scheme name : Udawalawe LB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	5581	4659	APR 20	Apr 22	AUG 10	Aug 27
Upland crops	3995	4218		Apr 22		Aug 27
Sugarcane	1586	1586	APR 01	Apr 22	SEP 30	Aug 27
Total	11162	10463				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg	9.5	41.2	38.9	47.1	29.2	7.6	173.5
	Dry	10.6	34.1	31.9	44.1	28.9	8.1	157.7
	Actual	25.1	49.0	57.7	64.7	51.2	12.5	260.1
Water duty (M)	Avg.	.09	.37	.35	.42	.26	.07	1.56
	Dry	.10	.31	.29	.40	.26	.07	1.43
	Actual	.24	.47	.55	.62	.49	.12	2.49
Rain fall (mm)	Avg.	185.9	131.5	70.4	64.3	55.5	91.2	598.8
	Dry	124.5	113.9	50.3	33.9	68.8	84.4	475.8
	Actual	125.0	167.2	.0	3.5	.0	.0	295.7

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.6E
 Title : Projected Irrigation System Water use
 Scheme name : Liyangastota LB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	2752	3440	APR 18	Apr 18	AUG 10	Aug 20
Upland crops	688	0				
Total	3440	3440				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg.	5.5	13.8	16.3	16.6	3.2	.0	55.4
	Dry	5.3	11.9	16.4	16.6	3.3	.0	53.5
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water duty (M)	Avg.	.16	.40	.47	.48	.09	.00	1.60
	Dry	.15	.34	.48	.48	.10	.00	1.55
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rain fall (mm)	Avg.	112.5	84.3	36.8	27.6	38.2	74.9	374.3
	Dry	71.7	63.4	26.0	17.7	41.4	49.3	269.5
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

Table no. : 2.6F
 Title : Projected Irrigation System Water use
 Scheme name : Liyangastota RB

(i) Cropping Data

Type of crop	Extent of crop (Ha)		First day of water issue		Last day of water issue	
	Proposed	Actual	Proposed	Actual	Proposed	Actual
Paddy	2612	3265	APR 05	Apr 5	JUL 31	Aug 10
Upland crops	653	0				
Total	3265	3265				

(ii) Performance

Item description	Hydro. Condi- -tion	Monthly Values						Tot
		Apr	May	Jun	Jul	Aug	Sep	
Water Issues (MCM)	Avg.	9.6	11.8	14.8	10.7	.0	.0	46.9
	Dry	9.2	10.1	15.0	10.6	.0	.0	44.9
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water duty (M)	Avg.	.29	.36	.45	.33	.00	.00	1.43
	Dry	.28	.31	.46	.32	.00	.00	1.37
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rain fall (mm)	Avg.	112.5	84.3	36.8	27.6	38.2	74.9	374.3
	Dry	71.7	63.4	26.0	17.7	41.4	49.3	269.5
	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE : ACTUAL WATER ISSUES/DUTY AS PER ACTUAL CROP SEASON

Note : 1 MCM = 0.81 TAF
 1 Ha = 2.47 Acres
 1 M = 3.28 Ft

TABLE 1 : SUMMARY OF CROPPING DATA

SYSTEM	SCHEME	AVAIL AREA (HA)	ACTUAL CROP TYPE	CROP %	WATER ISSUE		
					1ST DATE	LST DATE	DUTY (M)
H	Dambulu Oya	2290	Paddy	31	May 24	Sep 9	.97
			Upland	39			
	KHFC Scheme	2250	Upland	49	Jun 5	Sep 18	N/A
	Kandalama	4500	Paddy	24	May 23	Sep 10	2.45
			Upland	22			
	Kalawewa RB	14007	Paddy	19	May 20	Sep 14	2.14
			Upland	28			
	Kalawewa YE	4721	Paddy	35	May 15	Sep 12	1.03
			Upland	17			
	Kalawewa LB	6637	Paddy	26	May 15	Sep 13	1.52
		Upland	30				
	Rajangana	7214	Paddy	66	Apr 4	Aug 25	2.30
			Upland	8			
	Neela Bemma	690	Paddy	29	Apr 20	Aug 27	N/A
			Upland	58			
MH+IH	Hurulu Wewa	4300	Paddy	18	May 2	Aug 25	.85
			Upland	79			
	Nachchaduwa	2970	Paddy	67	Apr 30	Sep 15	.91
			Upland	34			
	Nuwara Wewa	1020	Paddy	79	Apr 17	Aug 29	2.33
			Upland	0			
	Tissawewa	520	Paddy	46	Apr 27	Sep 17	1.54
			Upland	0			

TABLE 1 : (Continued)

SYSTEM	SCHEME	AVAIL AREA (HA)	ACTUAL CROP		WATER ISSUE		
			TYPE	%	1ST DATE	LST DATE	DUTY (M)
D & G	Elahera	6700	Paddy	67	May 23	Sep 18	1.88
			Upland	12			
	Giritale	3500	Paddy	87	Apr 16	Aug 25	1.26
			Upland	0			
	Minneriya	9825	Paddy	92	Apr 18	Aug 27	1.18
	Kaudulla	5060	Paddy	108	Apr 20	Aug 18	.95
			Upland	0			
	Kantale	8860	Paddy	92	Apr 7	Aug 25	1.14
			Upland	0			
	Parakrama Samudra	10365	Paddy	98	Apr 18	Aug 21	1.69
			Upland	0			
E, C & B	System E - Minipe LB	7530	Paddy	93	Mar 25	Jul 26	2.24
			Upland	0			
	Sorabora wewa	810	Paddy	99	Apr 2	Aug 29	N/A
			Upland	0			
	Mapakada wewa	550	Paddy	55	Apr 1	Aug 30	N/A
			Upland	18			
	Dambarawa wewa	610	Paddy	82	Apr 2	Aug 24	N/A
			Upland	16			
Ulhitiya	22801	Paddy	100	Apr 20	Aug 21	2.02	
			Upland	0			
	Maduru Oya LB	18645	Paddy	100	Apr 25	Aug 30	1.94
			Upland	3			
A	System A - Allai	7050	Paddy	51	Apr 5	Sep 7	N/A
			Upland	0			
WALAWE (Kaltota Amuna	915	Paddy	0			N/A
	Udawalawe RB	11262	Paddy	64	Apr 22	Aug 27	2.47
			Upland	34			
			Sugarc	0			
	Udawalawe LB	10968	Paddy	42	Apr 22	Aug 27	2.49
			Upland	38			
			Sugarc	14			
	Liyangastota LB	3440	Paddy	100	Apr 18	Aug 20	N/A
			Upland	0			
	Liyangastota RB	3265	Paddy	100	Apr 5	Aug 10	N/A
			Upland	0			

TABLE 2 : SUMMARY OF ENERGY GENERATION

SYSTEM	Power Station	Avail Capacity (MW)	Total Energy (GWH)
Mahaweli	Kotmale	134	152
	Victoria	210	262
	Randenigala	61	156
	Rantembe	50	67
	Ukuwela	36	81
	Bowatenna	40	24
	SUB-TOTAL	531	746
Kelani &	Canyon	30	53
	New Laxapana	100	208
	Polpitiya	75	167
	Wimalasurendra	50	43
	Laxapana	50	130
	Samanalawewa	120	122
	Kukule	70	114
	Mini Hydro	20	38
SUB-TOTAL	515	878	
Thermal	Coal Power	810	N/A
	Diesel	144	N/A
	Steam	0	N/A
	Gas	282	N/A
	Private Power	736	N/A
SUB-TOTAL	1972	N/A	
	SYSTEM TOTAL	3018	N/A

APPENDIX 3

GRAPHICAL REPRESENTATION OF PROJECTED AND ACTUAL RESERVOIR LEVELS

Fig: 3.11 - CASTLEREIGH

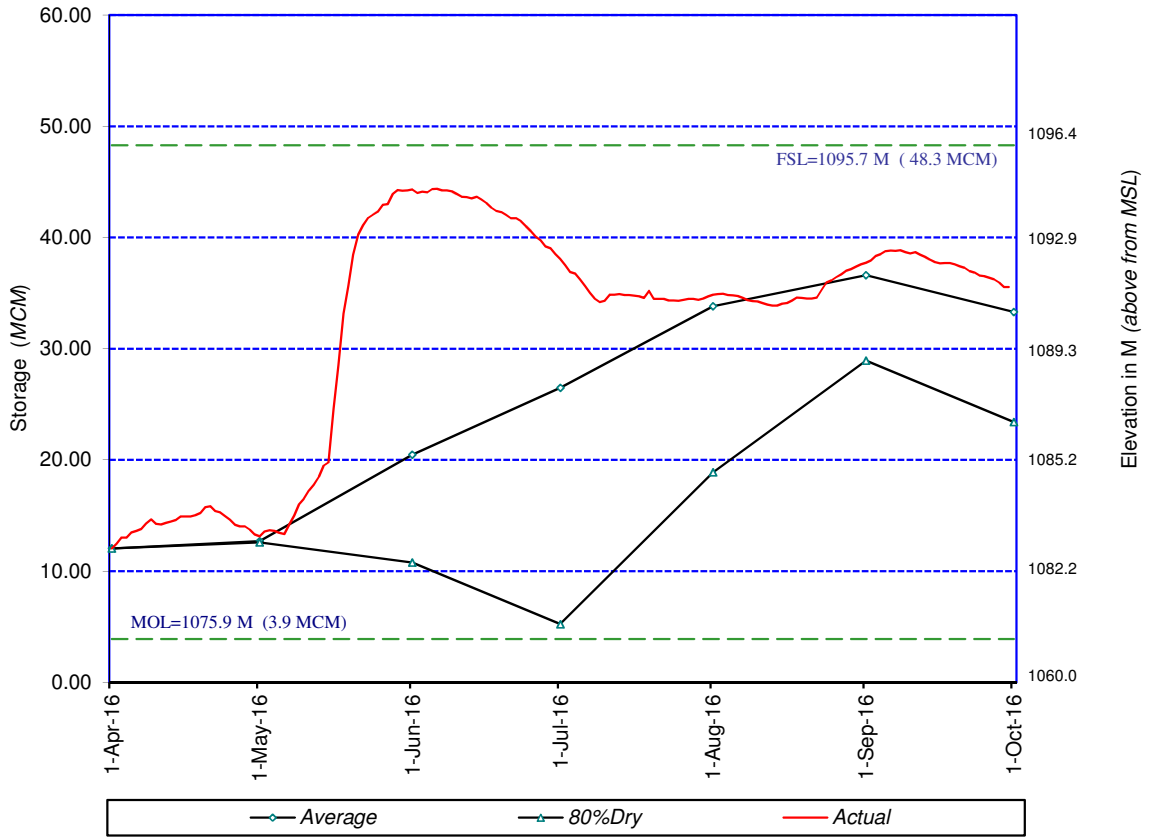
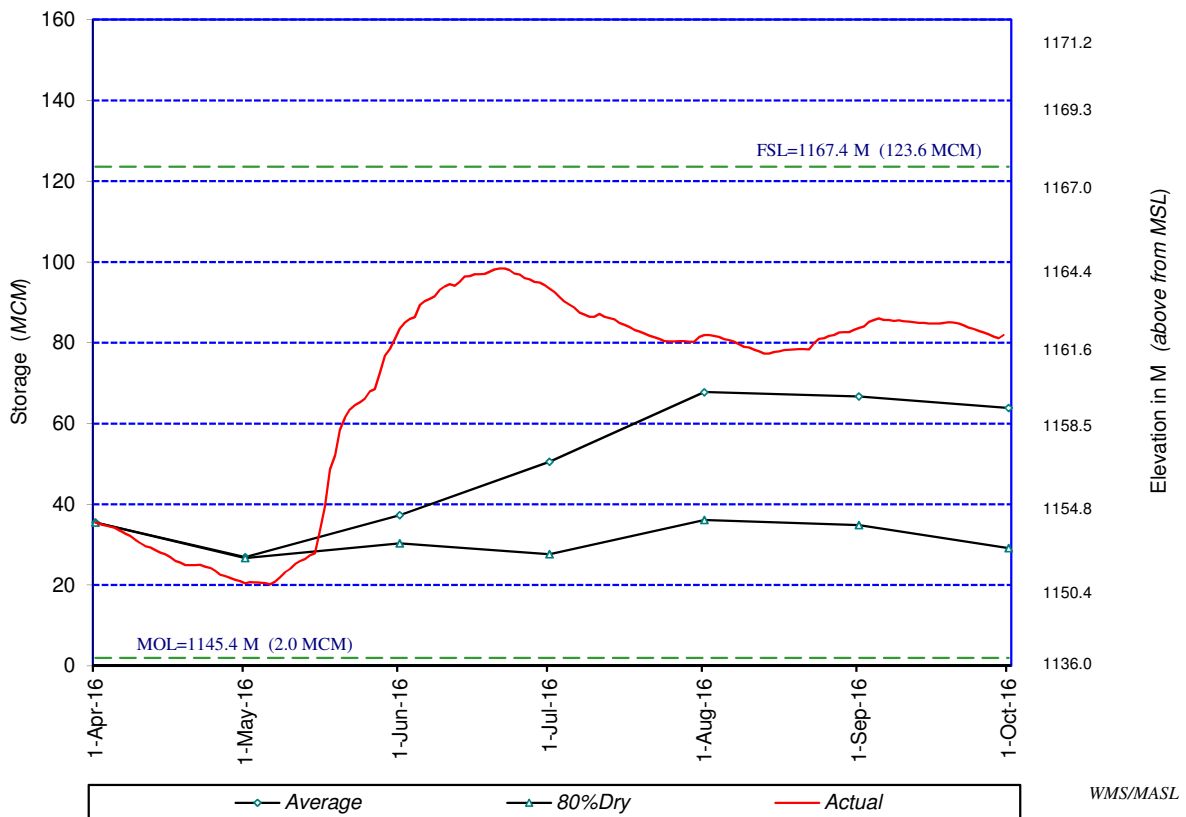


Fig: 3.12 - MOUSSAKELE



2016 YALA SEASON

Fig: 3.13 - GAMINI DISSANAYAKE RESERVOIR (KOTMALE)

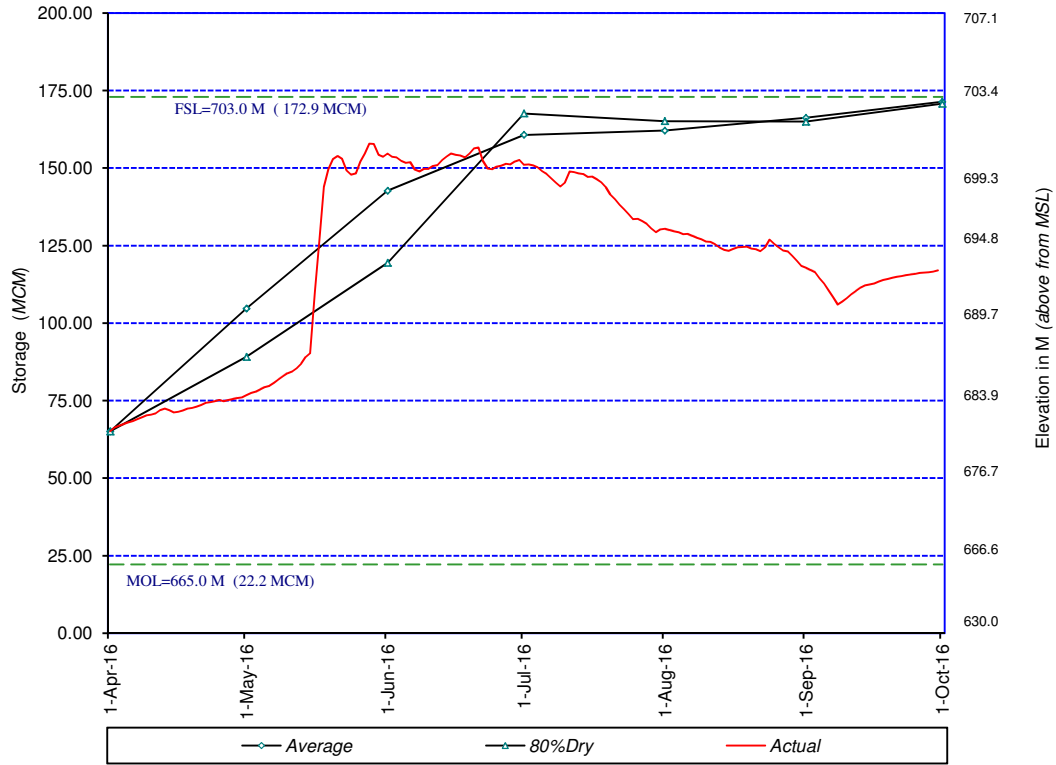
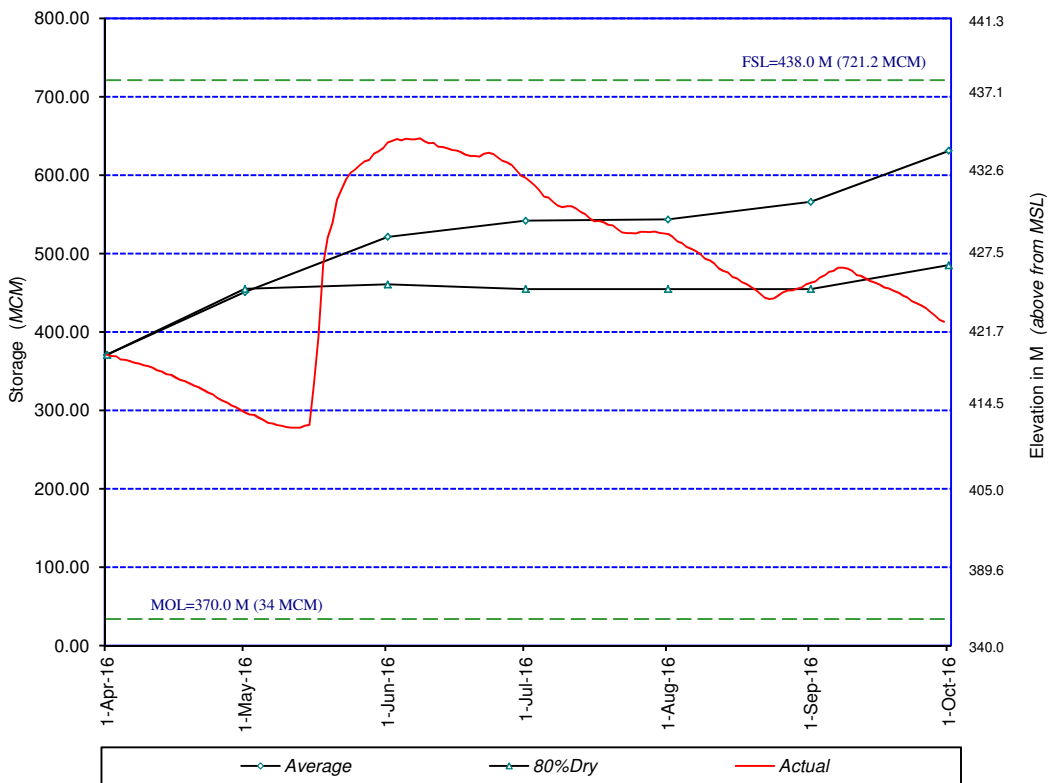


Fig: 3.14 - VICTORIA



2016 YALA SEASON

Fig: 3.15 - RANDENIGALA

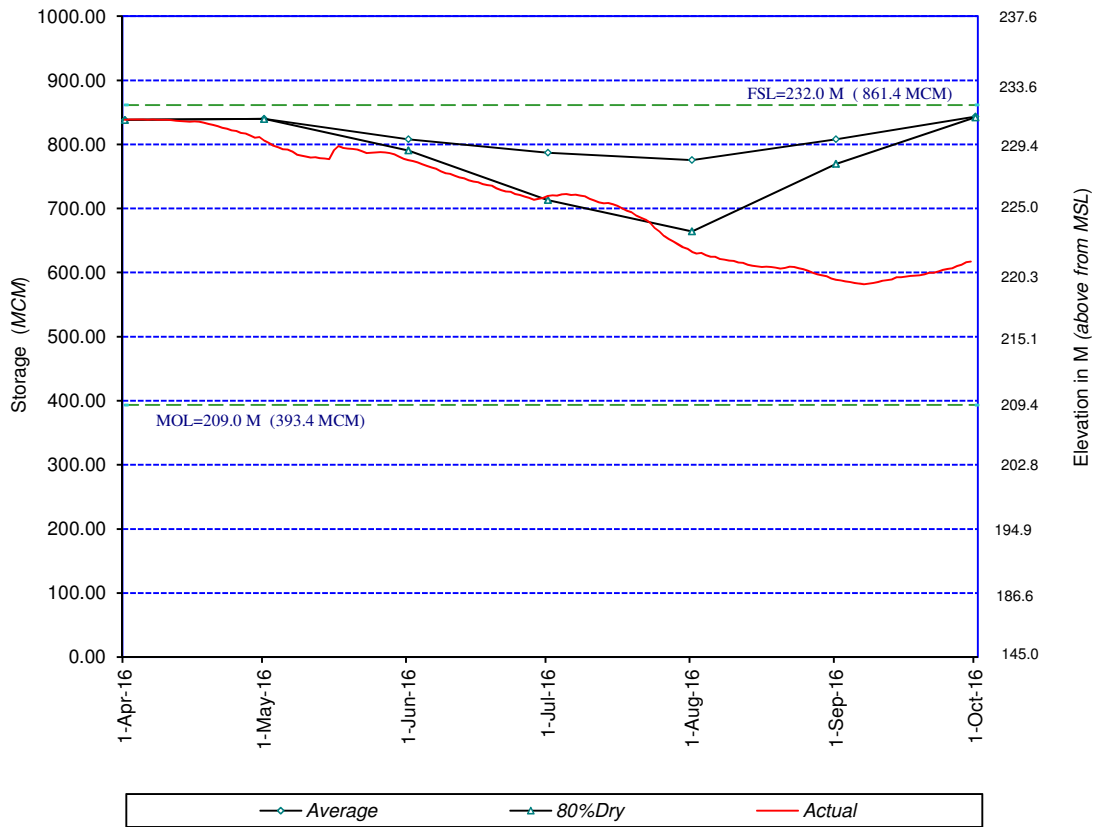
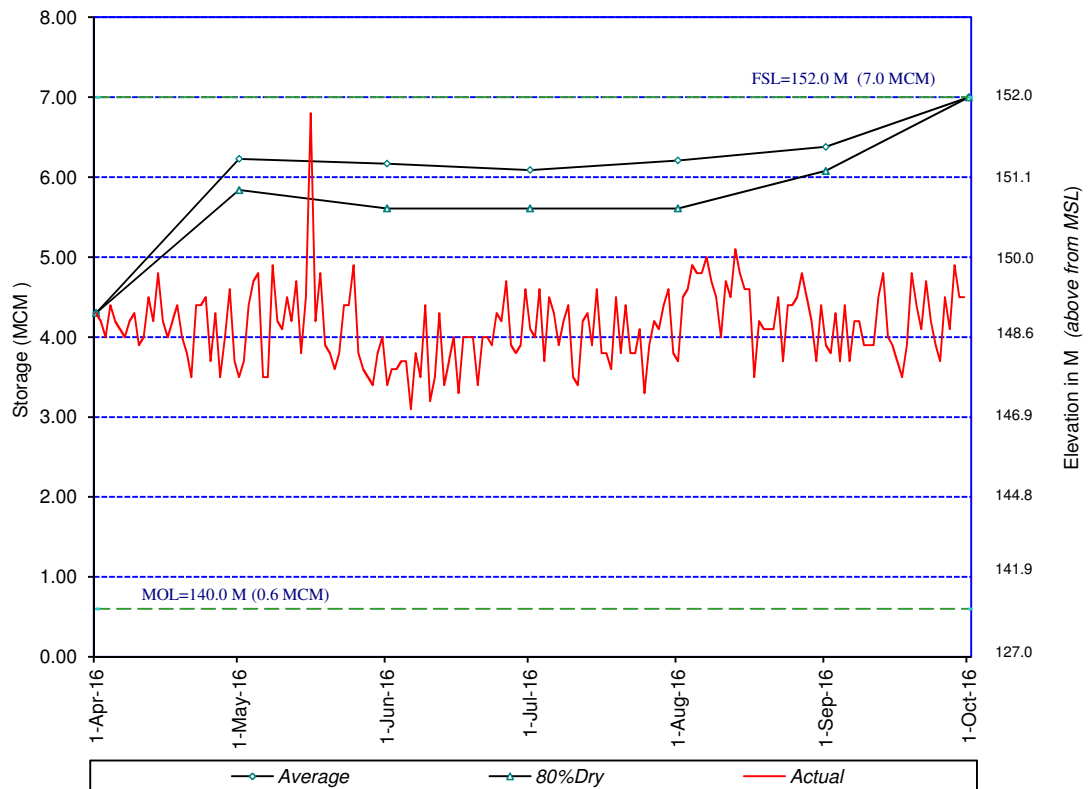


Fig: 3.16 - RANTEMBE



2016 YALA SEASON

Fig: 3.17 - BOWATENNA

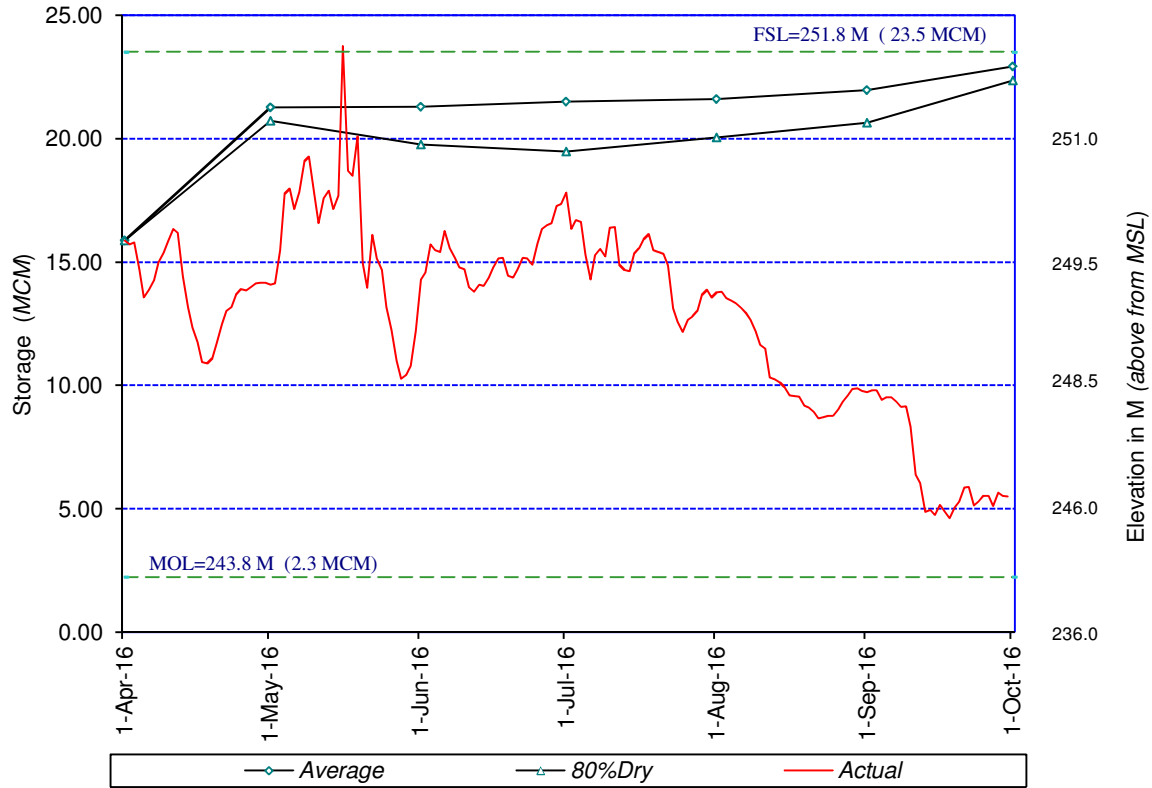
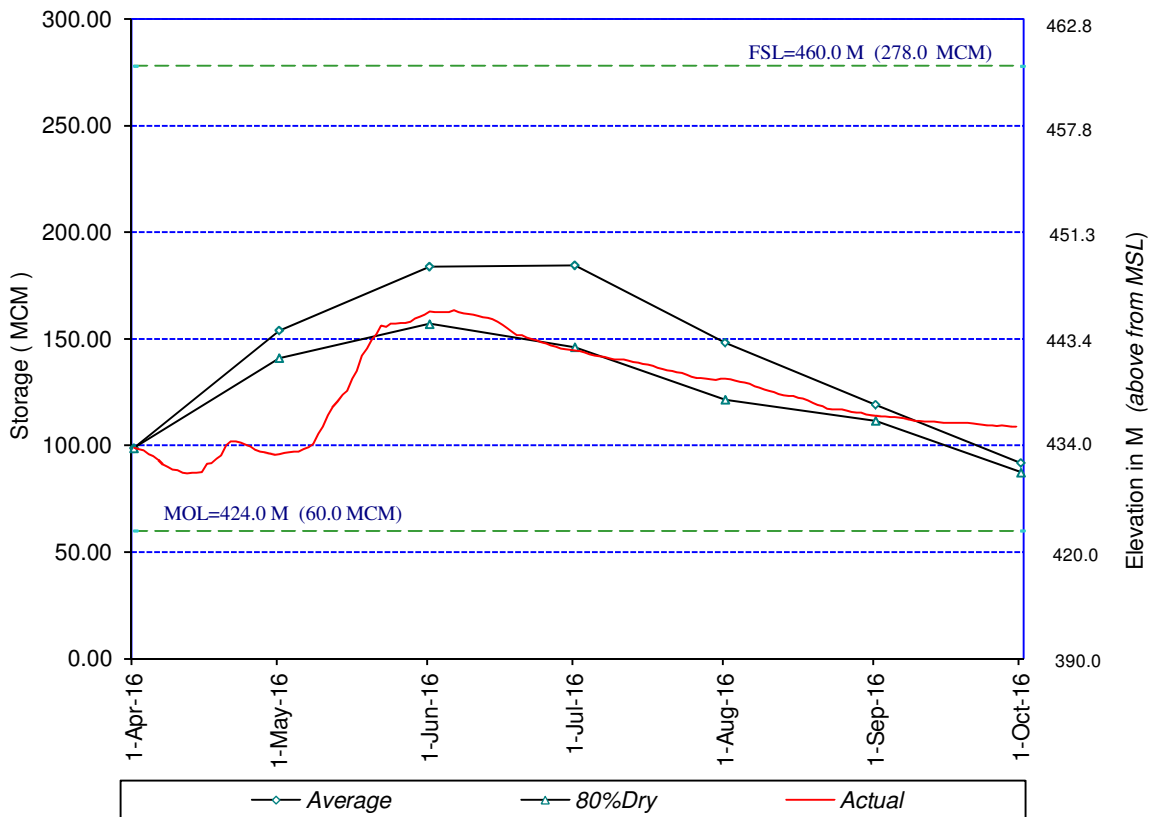


Fig: 3.18 - SAMANALAWEWA



APPENDIX 4

GRAPHICAL REPRESENTATION OF PROJECTED AND ACTUAL TANK LEVELS

Fig: 4.11 - KANDALAMA

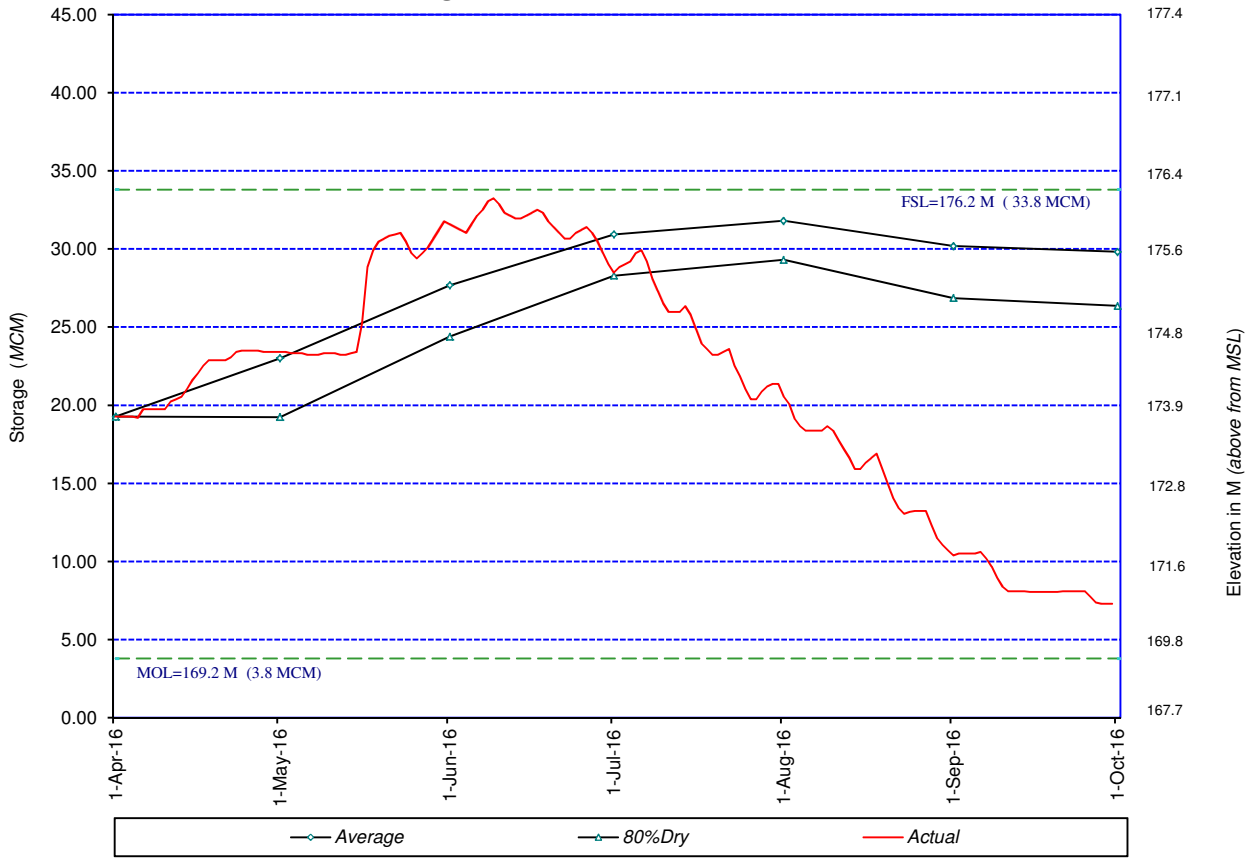
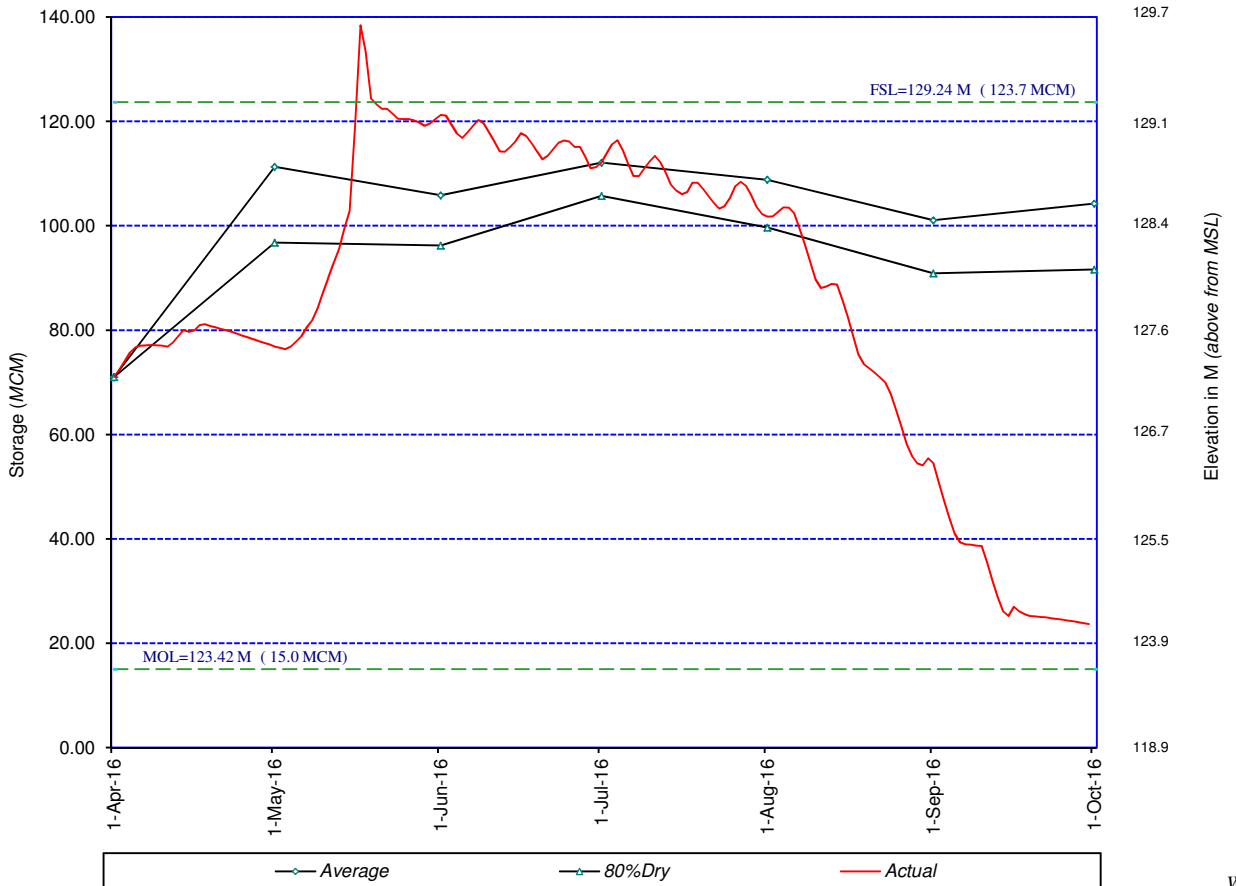


Fig: 4.12 - KALAWEWA



2016 YALA SEASON

Fig: 4.13 - RAJANGANA

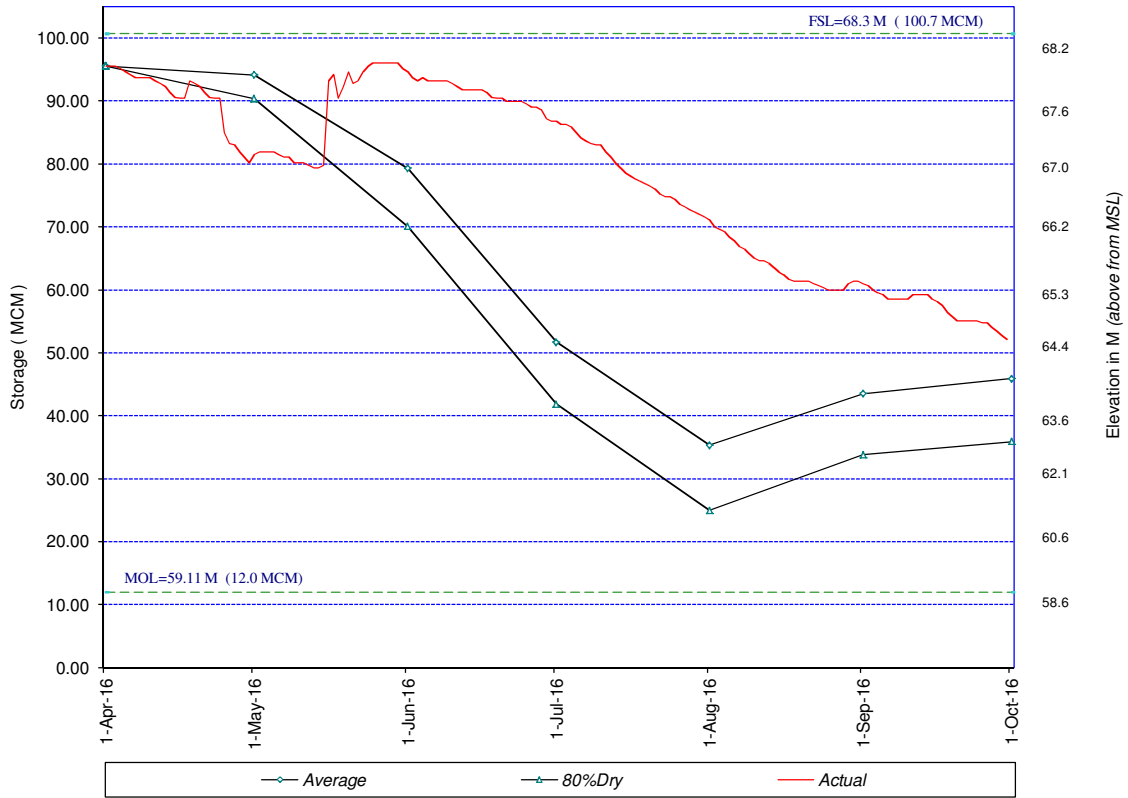
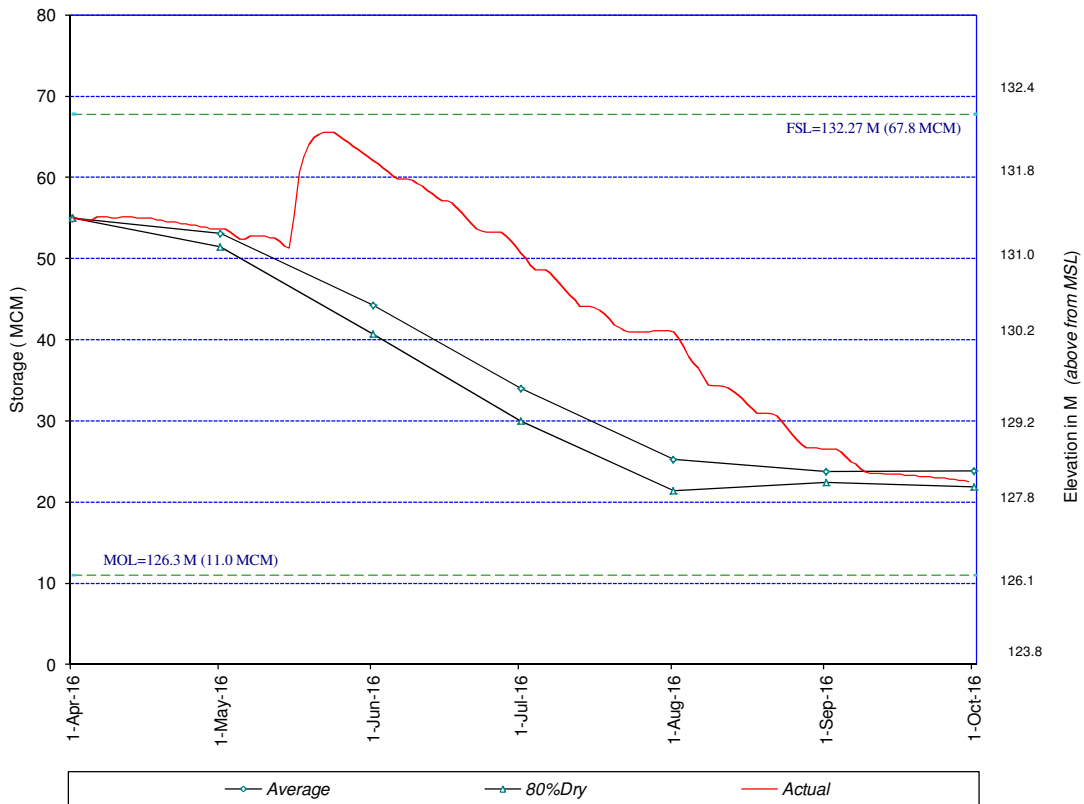


Fig: 4.21 - HURULUWEWA



2016 YALA SEASON

Fig: 4.22 - NACHCHADUWA

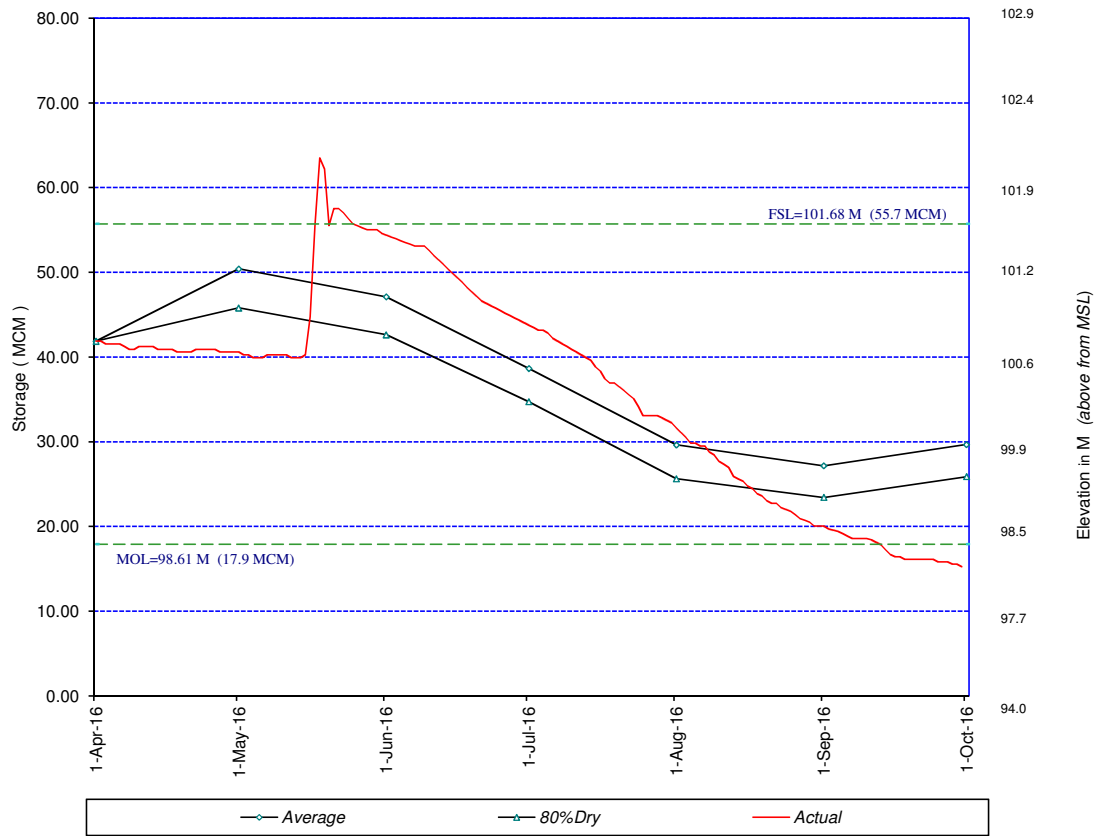
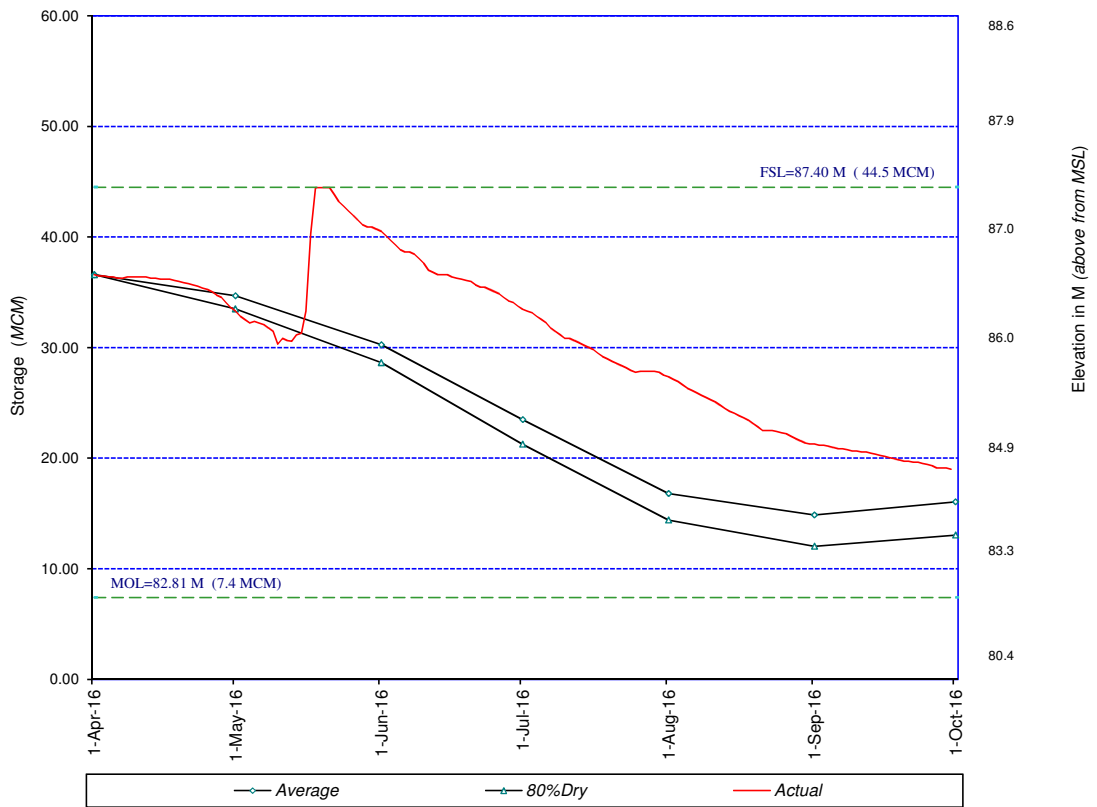


Fig: 4.23 - NUWARAWEWA



2016 YALA SEASON

Fig: 4.24 - TISSAWEWA

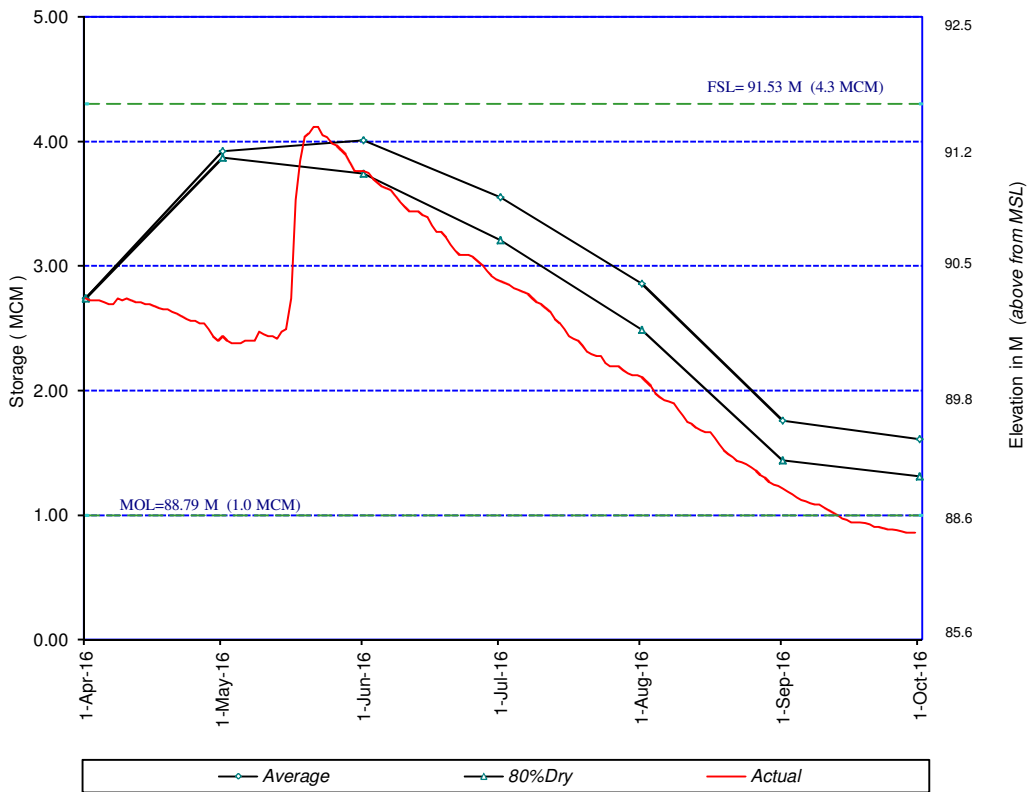
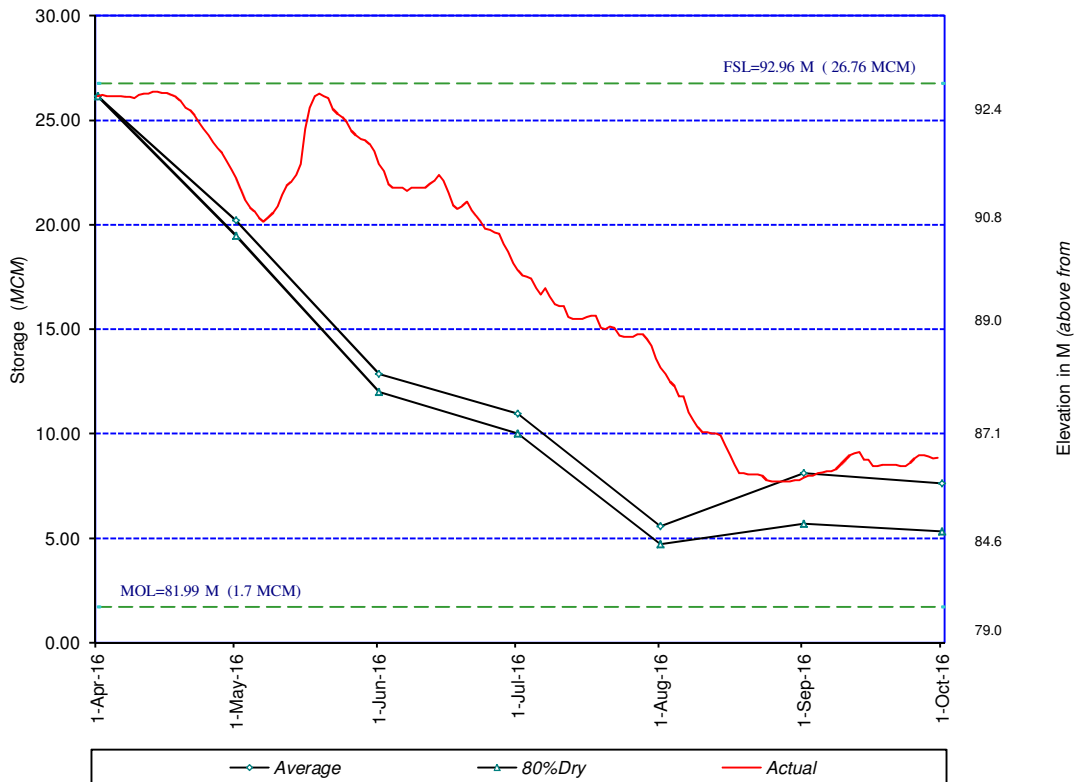


Fig: 4.31 - GIRITALE



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Fig: 4.32 - MINNERIYA

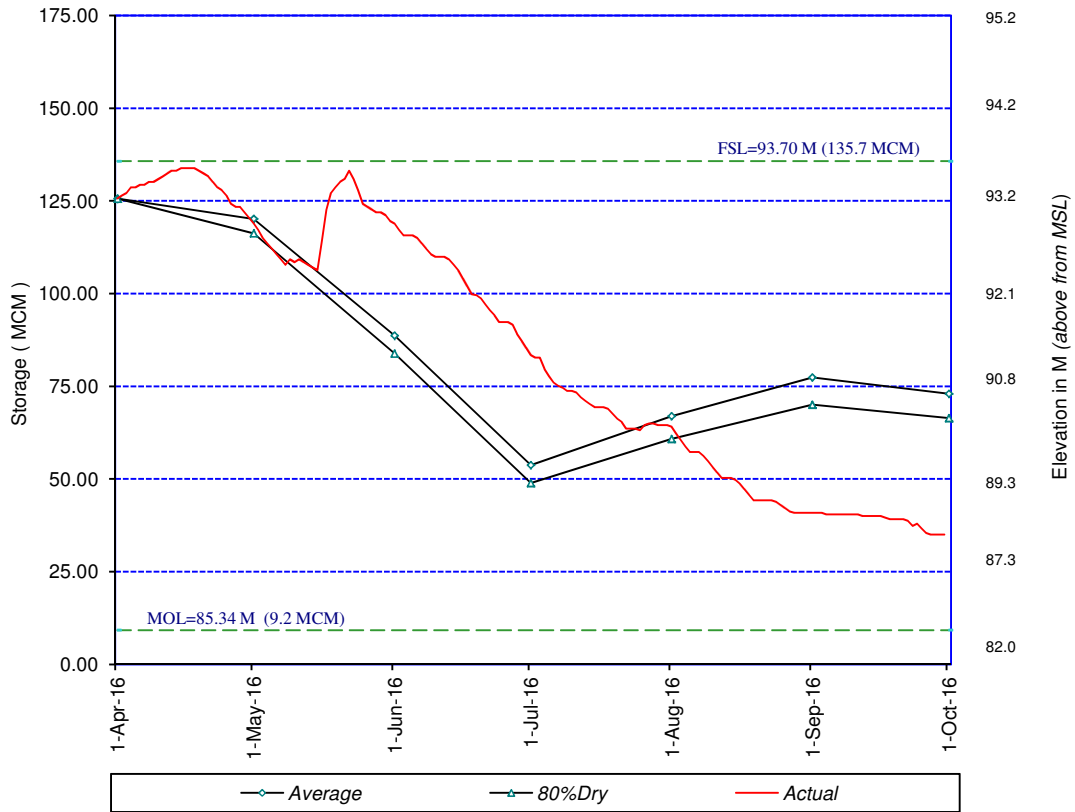
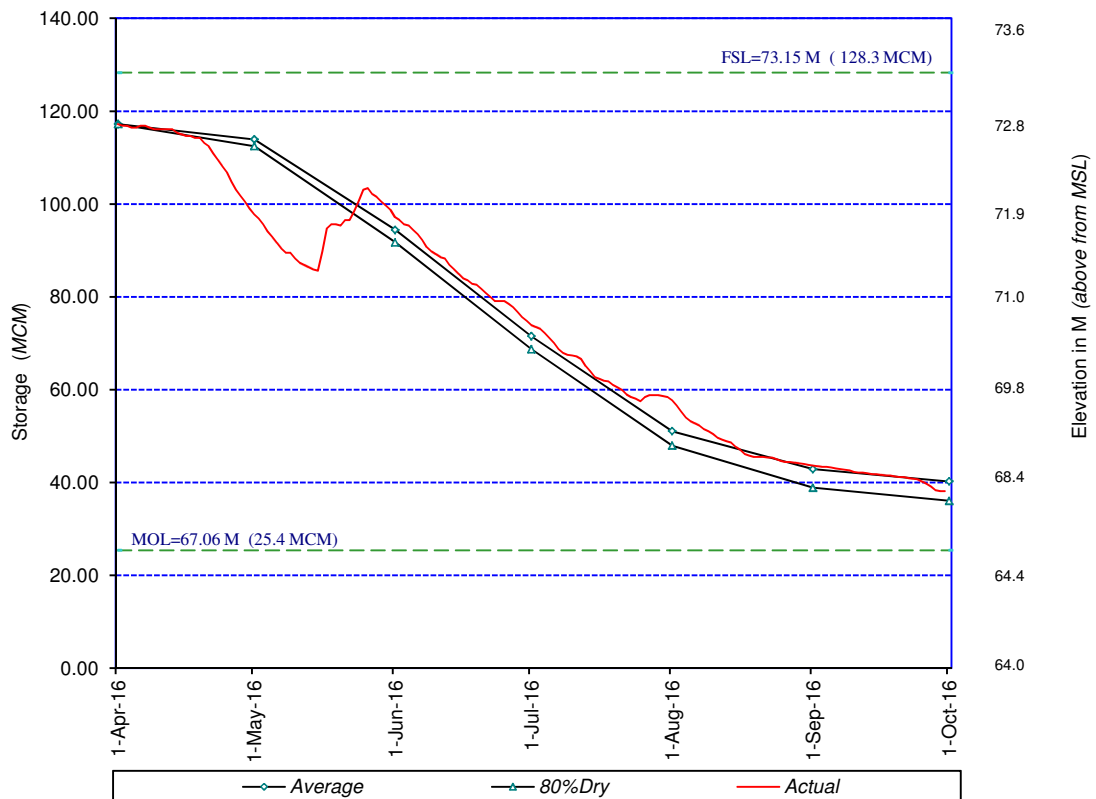


Fig: 4.33 - KAUDULLA



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Fig: 4.34 - KANTALE

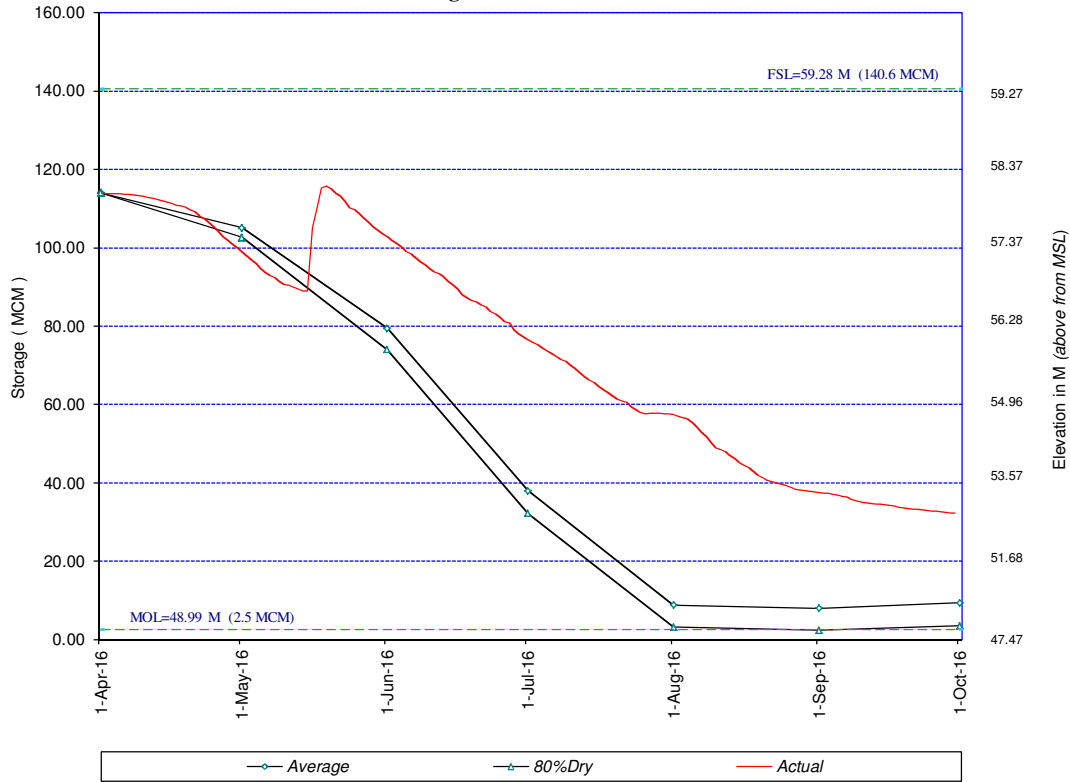


Fig: 4.35 - PARAKRAMASAMUDRAYA

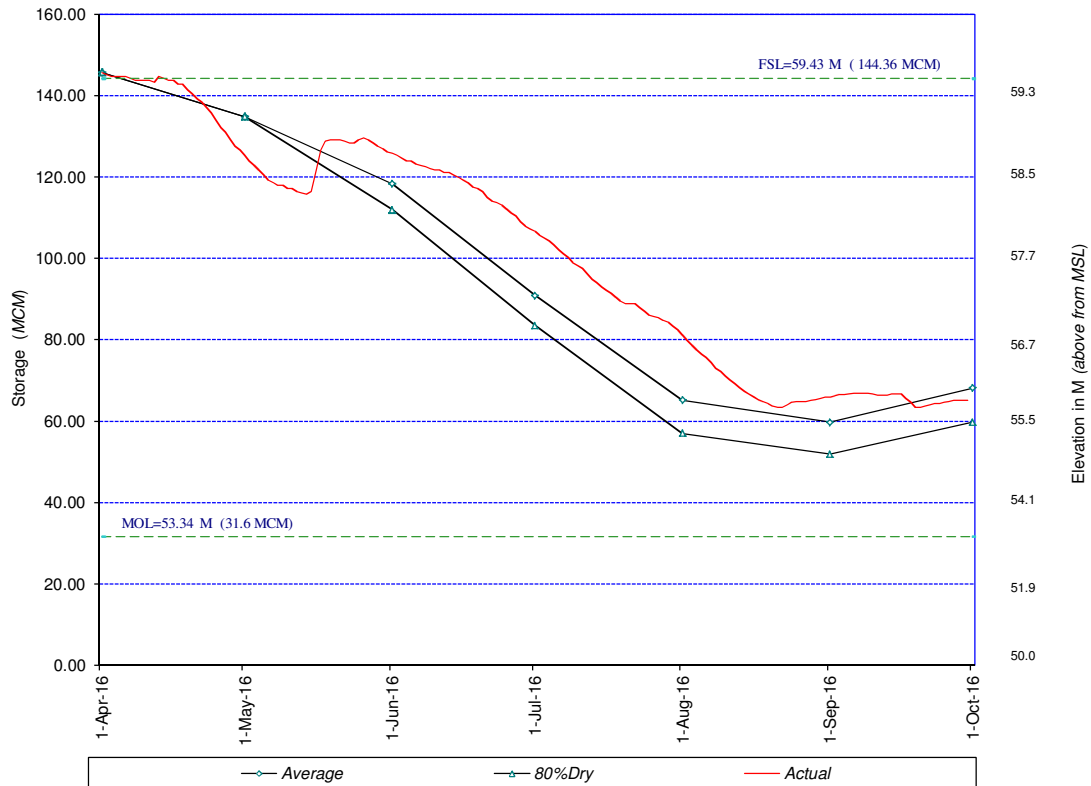


Fig: 4.41 - ULHITIYA / RATKINDA

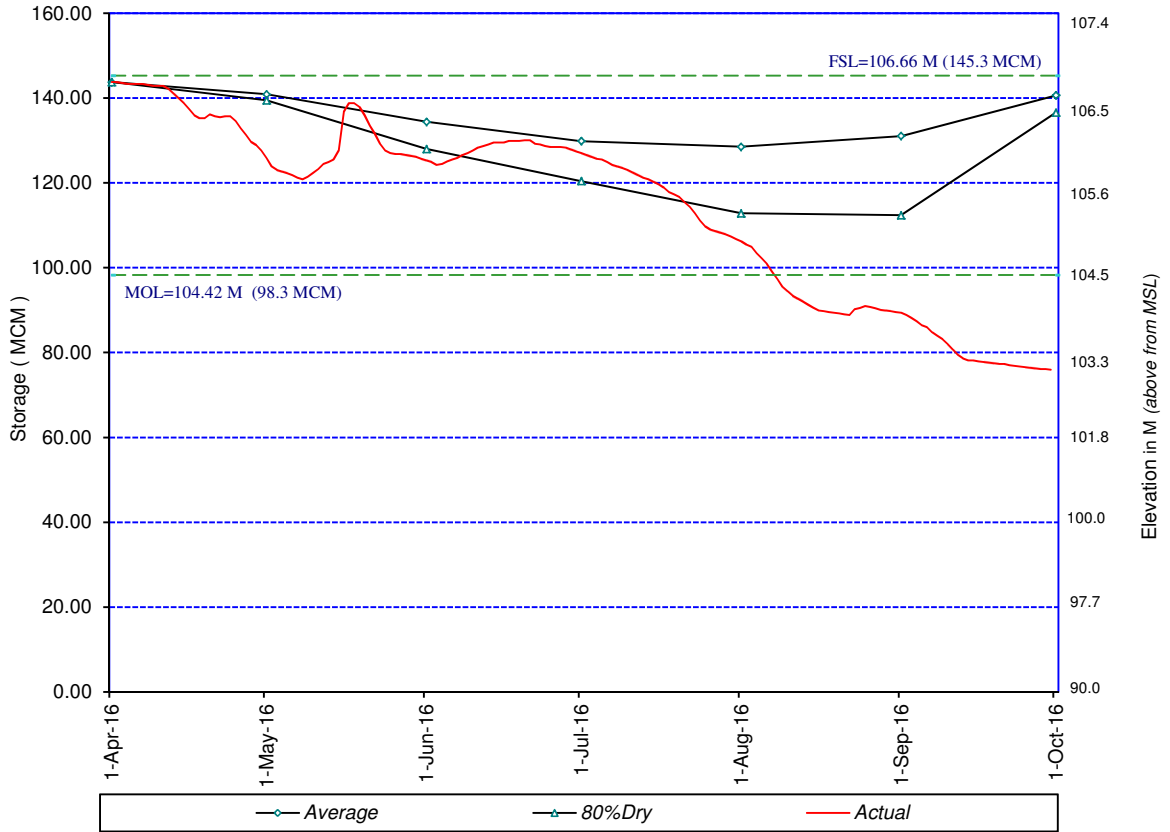
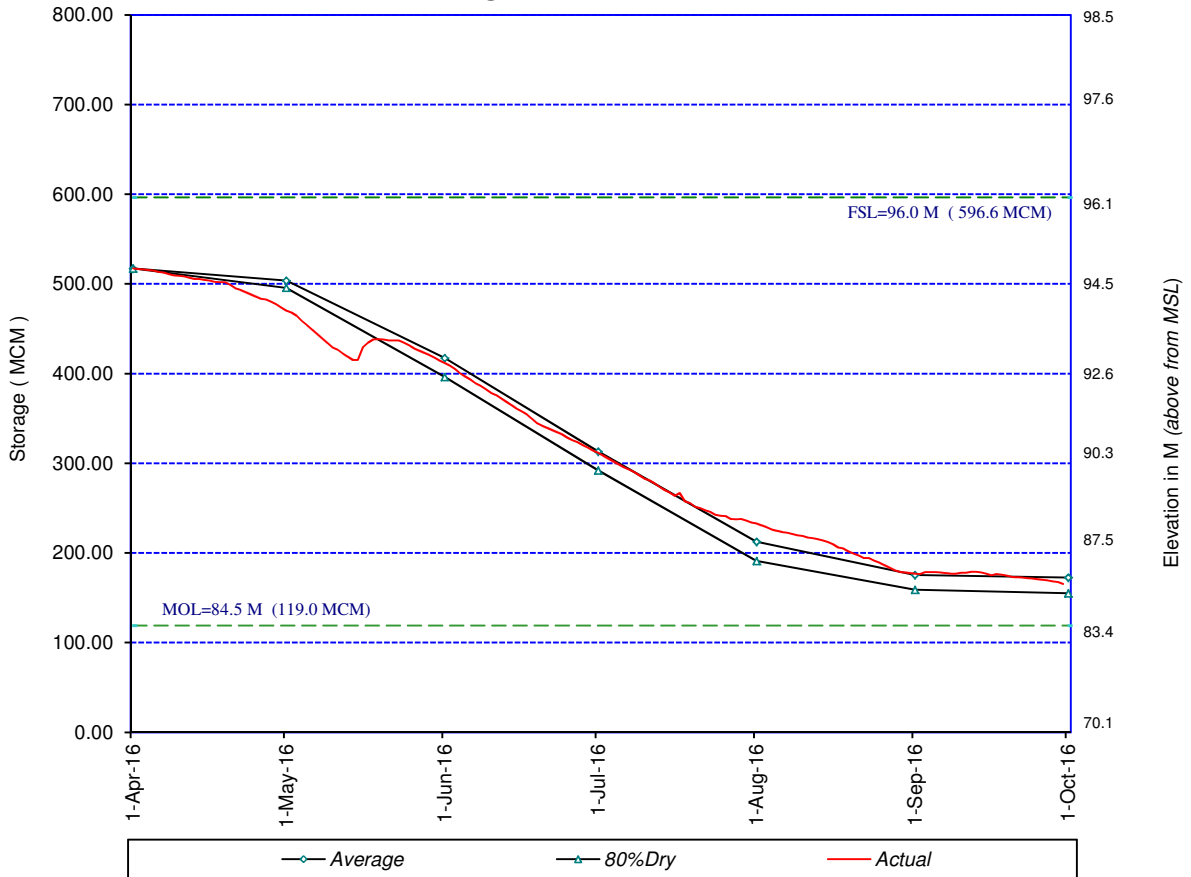


Fig: 4.42 - MADURU OYA



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Fig: 4.51 - UDAWALAWE

