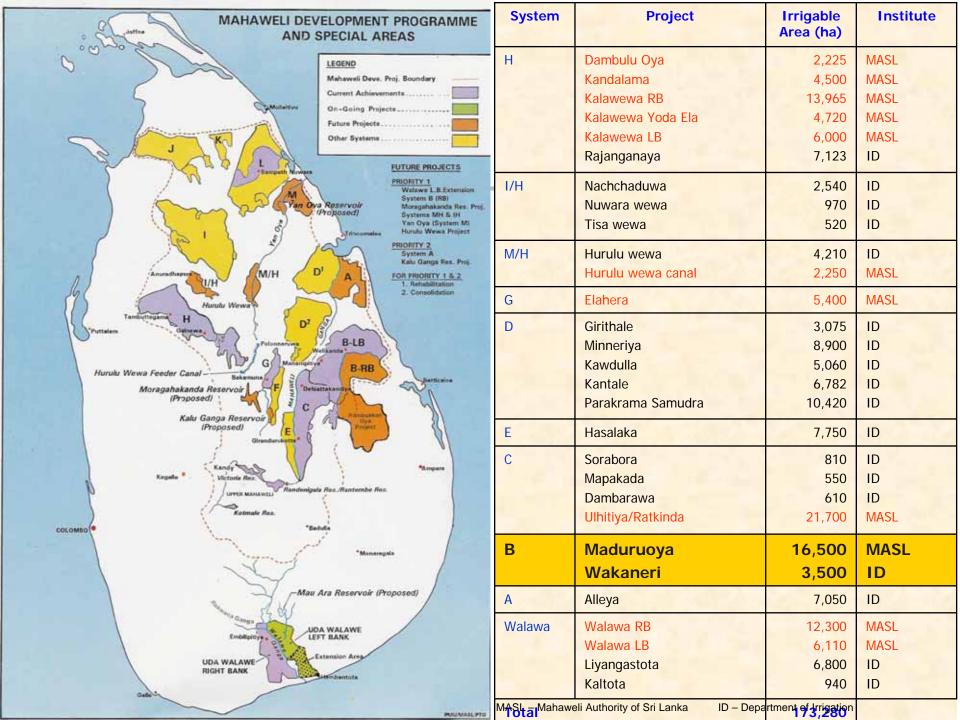
Mahaweli Development Project in Sri Lanka

Presented by Eng.K. Wijerathne

Mahaweli River Basin

	Basin No	NAMES OF TAXABLE PARTY.	Catchment Area Sq. Km.	Basin No.	Name of Basin Area Sq. Km	Catchment
	1.	Kelani Ganga	2278	53.	Miyangolla Ela	225
a color for the color	2.	Bolgoda Lake	374	54.	Maduru Oya	1541
	3.	Kaluganga	2688	55.	Pulliyanpotha Aru	52
	4.	Bentota Ganga	6622	56.	Kirimechi Odai	77
	5.	Madu Ganga	59	57.	Bodigoda Aru	164
LEGEND	6.	Madampe Lake	90	58.	Mandan Aru	13
65 A RIVER	7.	Telwatte Ganga	51	59.	Makarachchi Aru	37
	8.	Ratgama Lake	10	60.	Mahaweli Ganga	10327
BASIN BOUNDARY	9.	Gin Ganga	992	61.	Kantalai Basin Per A	
32 BASIN NUMBER	10.	Kongala Lake	64	62.	Panna Ova	69
	11.	Powatta Ganga	233	63.	Palampotta Aru	143
	12.	Nilwala Ganga	960	64.	Pankulam Ara	382
	13.	Sinimodara Oya	38	65.	Kanchikamban Aru	205
(89) (89)	14.	Kirama Ova	223	66.	Palakutti Aru	20
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15.	Rekawa Oya	755	67.	Yan Ova	1520
69/ 10 / 62	16.	Uruhokke Oya	348	68.	Mee Ova	90
99 (62)	17.	Kachigala Ara	220	69.	Ma Oya	1024
	18.	Walawe Ganga	2244	70.	Churian Aru	74
	19.	Karagan Oya	58	71.	Chavar Aru	31
	20.	Malala Oya	399	72.	Palladi Aru	61
DRY ZONE	21.	Embilikala Oya	59	73.	Nay Ara	187
16/2	22.	Kirindi Oya	1165	74.	Kodalikallu Aru	74
	23.	Bambawe Ara	79	75.	Per Ara	374
	24.	Mahasilawa Oya	13	76.	Pali Aru	84
18 1 To 18 1 T	25.	Butawa Ova	38	77.	Muruthapilly Aru	41
7	26.	Menik Ganga	1272	78.	Thoravil Aru	90
	27.	Katupila Aru	86	79.	Piramenthal Aru	82
	28.	Kuranda Ara	131	80.	Nethali Aru	120
(9) Treduction Oyo	29.	Namadagas Ara	46	81.	Kanakarayan Aru	986
9 INTERMEDIANE ZONE	30.	Karambe Ara	46	82.	Kalawalappu Aru	56
INTERMEDIATE ZONE	31.	Kumbukkan Oya	1218	83.	Akkarayan Aru	192
	32.	Bagura Oya	92	B4.	Mendekal Aru	297
	33.	Girikula Oya	15	85.	Paliarayan Kadu	159
	34.	Helawa Ara	51	86.	Pali Aru	451
	35.	Wila Ara	484	87.	Chappi Aru	66
03	36.	Heda Oya	604	88.	Parangi Aru	832
	37.	Karanda Oya	422	89.	Nay Aru	560
	38.	Simena Ara	51	90.	Malvatu Oya	3246
WET ZONE	39.	Tandiadi Aru	22	91.	Kal Ara	210
Kein of the state	40.	Kangikadichi Ara	56	92.	Moderagam Ara	932
(36)	41.	Rufus Kulam	35	93.	Kala Oya	2772
	42.	Pannel Oya	184	94.	Moongil Aru	44
(Volu Compo)	43.	Ambalam Oya	115	95.	Mi Oya	1516
	44.	Gal Ova	1792	96.	Madurankuli Aru	62
	45.	Andella Ova	522	97.	Kalagamuwa Oya	151
	46.	ThumpankeniTank		98.	Pantampola Oya	215
	47.	Namakada Aru	12	99.	Deduru Oya	2616
	48.	Mandipattu Aru	100	100.	Karambala Oya	589
	49.	Pattanthe Aru	100	101.	Ratmal Oya	215
	50.	Magalawatavan An		102.	Maha Oya	1510
0 20 40	51.	Vett Aru	26	103.	Attanagalu Oya	727
	52.	Mundeni Aru	1280	1001	. manuagara w jw	0.00=110
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	JA.	MUNICIPAL	1200			





MAHAWELI SYSTEMS

- System B
- System C
- System G
- System H
- Uda walawe
- System L
- Victoria/ Kotmale
- Huruluwewa
- System D

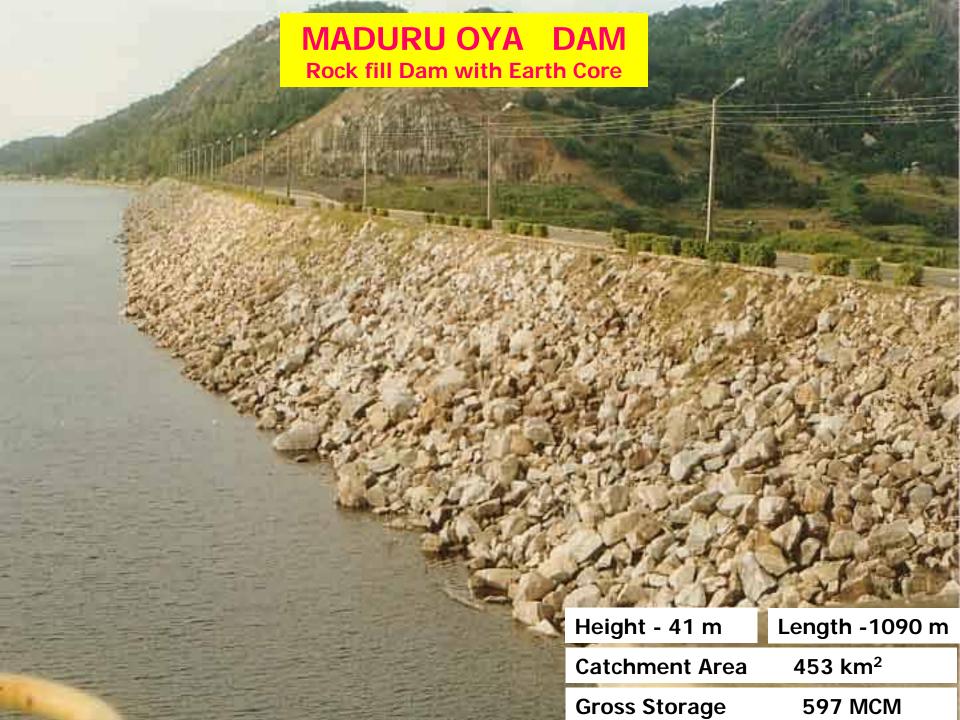
Objectives of Mahaweli Development Project

- Alienation of land among landless people
- Resettlement process
- Agriculture expansion and increase of income generation
- Generation of employment opportunities
- Hydro power Generation



Basic Features of System 'B'

- Population 115,000
- Extent of Land 114,650 ha
- No of Villages 106
- No of Farm Organizations 118
- No of small Tanks 69
- Agriculture based Economy
- Climate Tropical
 - Avg. Temperature around 32°C



Main features in Maduruoya scheme

Location: Polonnaruwa district, Welikanda & Dimbulagala D.S divisions.
 225km away from Colombo.

Catchments Area: 453 km²

Gross storage: 597 MCM

Dead storage: 120 MCM

Full supply level: 89.00 m

Length of dam: 1,090 m

Irrigable Area: 42,000 ha

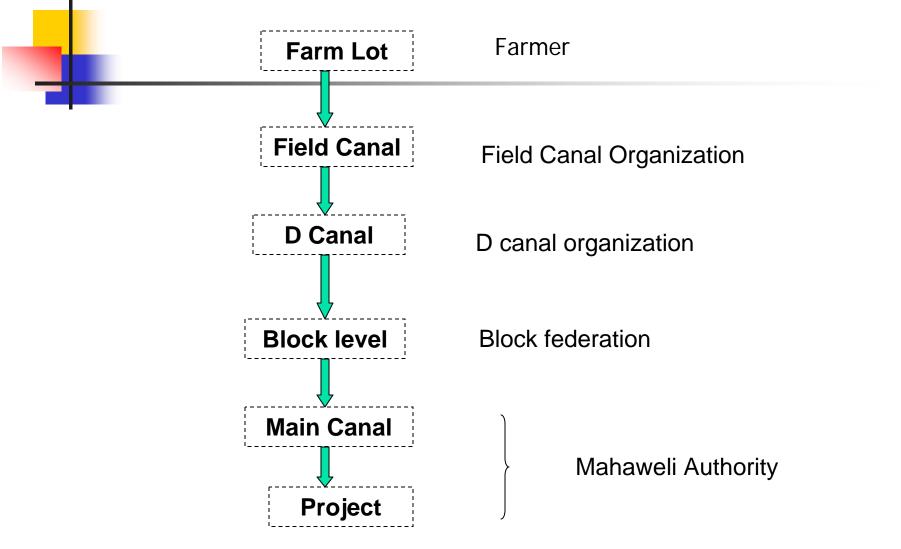
Canal length:

Main and Branch 110 km

Distributory and Field 1760 km

How IWRM concept is implemented in System 'B'

Responsibilities at each level for water issues





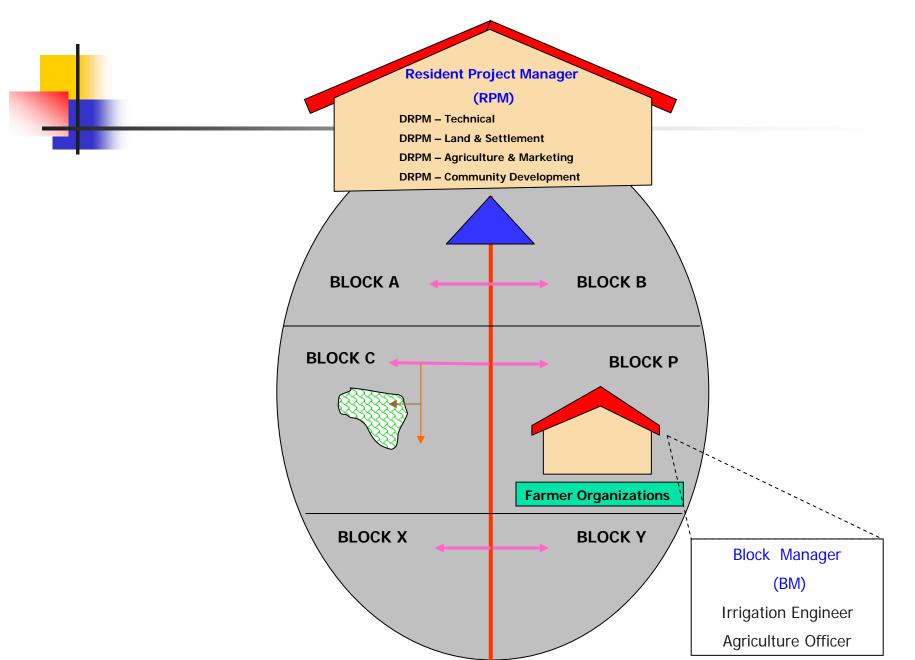
- Field canal farmer organization (10-15) farmers
 - A field canal leader is responsible for organizing the rotational water issues and scheduling within the field canal.
- Distributory Canal Farmer Organization (100-150) farmers
 - preparation of the Seasonal Allocation Plan
 - deciding on the water allocation a DCFO
 - water distribution and monitoring within the D-canal (water master)
 - keeping records of water issues to each canal
 - maintaining the notice board at the Distributory canal head to make aware of the water schedule.



Involvement of Farmers for water management Cont..

- Block Level Farmer Federation (4000-5000 farmers)
 - constitute of the members of the DCFOs.
 - responsible in allocating water among the D-Canals

Organizational Structure of Mahaweli System 'B'



Preparation of seasonal plan



- Pre Cultivation Meeting
- Water Panel Meeting
- Cultivation Meeting

Pre Cultivation Meeting

Participants

Irrigation Engineers
Agriculture Officers
Farmer Organizations

From every Block

Discussed on

- Water availability
- Crop types
- Crop extents
- Rough estimate on water requirement
- Repair & Maintenance works of canals





Water Panel Meeting

MASL

Participants

Hon Minister

Secretary of Mahaweli Ministry

DG (MASL)

All RPMs

Director (Headworks)

All Engineer In Charge

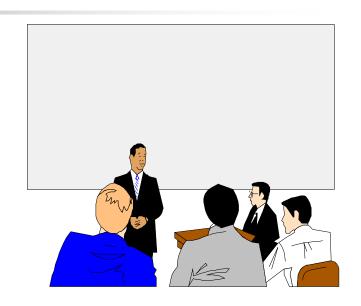
DGM CEB (Mahaweli Complex)

DG & Director of Irrigation Department

Farmer Organizations

Discussed on

- Availability of water
- Crop types, periods and extent
- Water allocations for different sectors



Cultivation Meeting (Final)

Participants

RPM

DRPMs
Irrigation Engineers
Agriculture Officers

Farmer Organizations

Other all relevant state institution

Confirm or adjust

- Crop types
- Crop periods
- Crop extents

From every Block

1

Thank You