



Preparation for South-West Monsoon 2022

Eng. S.P.C. Sugeeshwara

Director of Irrigation (Hydrology & Disaster Management)

Irrigation Department

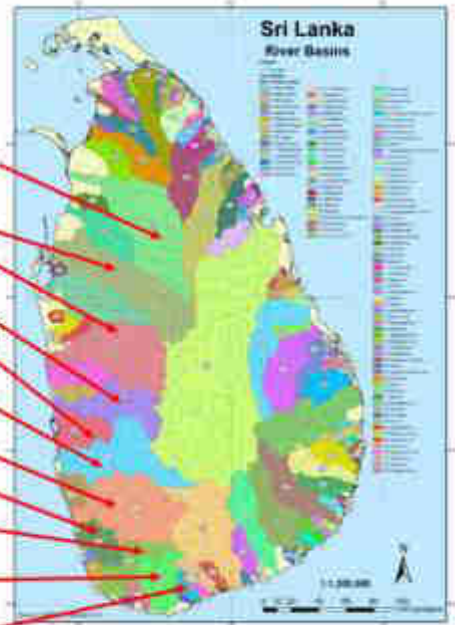
Functions and Responsibilities of Irrigation Department (ID)

- **Water Management and related functions such as supplying irrigated water for agriculture for the entire country excluding Mahaweli Area.**
- **Reservoir Management and Dam Safety**
- **Flood Forecasting and Early Warning**
- **Forecasting of Hydrological Droughts**

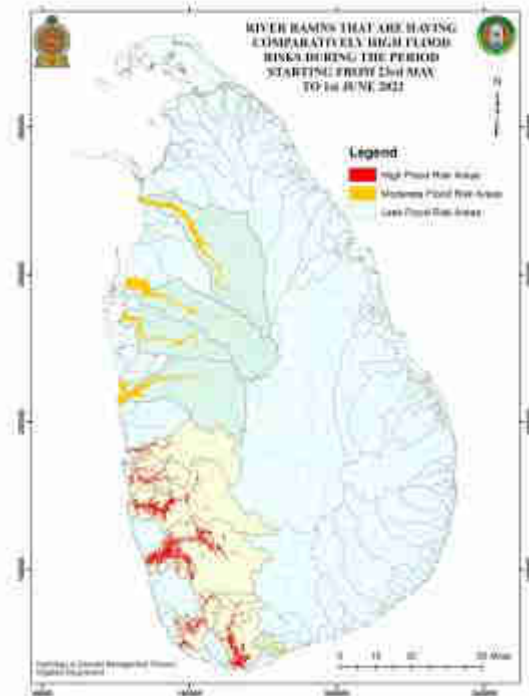
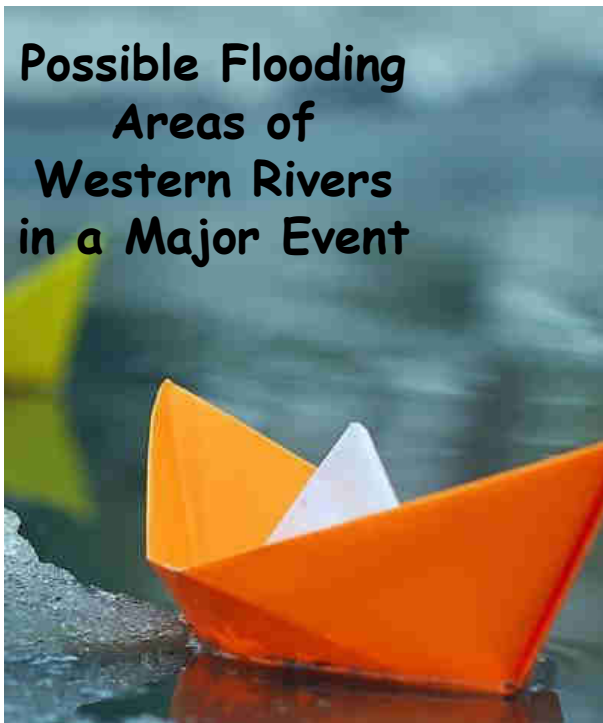
The River Basins most likely to be affected by floods in South - West Monsoon



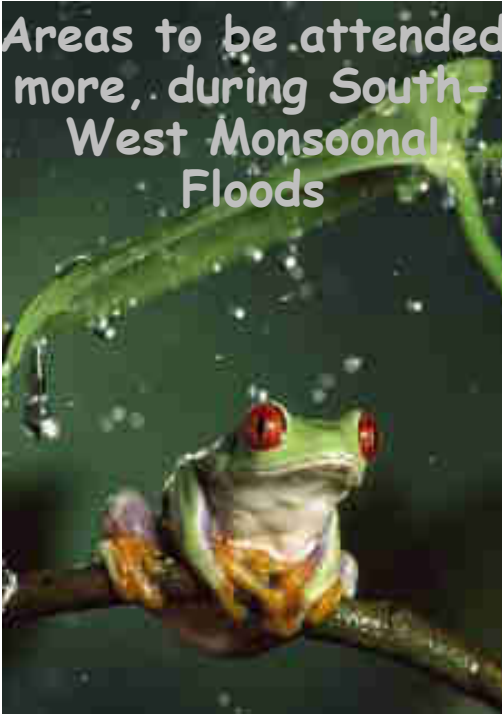
- Malwathu Oya
- Kala Oya
- Deduru Oya
- Maha Oya
- Attanagalu Oya
- Kelani River
- Kalu River
- Bentara River
- Gin River
- Nilwala River
- Kirama Oya



Possible Flooding Areas of Western Rivers in a Major Event



Areas to be attended more, during South-West Monsoonal Floods



Deduru Oya : Kurunegala, Puttalam,
Attanagalu Oya: Gampaha
Kelani River : Colombo, Kegalle,
Kalu River : Ratnapura, Kalutara,
Gin River : Galle
Nilvala River : Matara
Maha Oya : Puttalam, Kandy, Kurunagala
Kirama Oya : Hambantota
Malwathu Oya : Anuradhapura, Mannar

Flood Monitoring System of Irrigation Department - Manual System



There are 42 Manual River and Rainfall Monitoring Stations

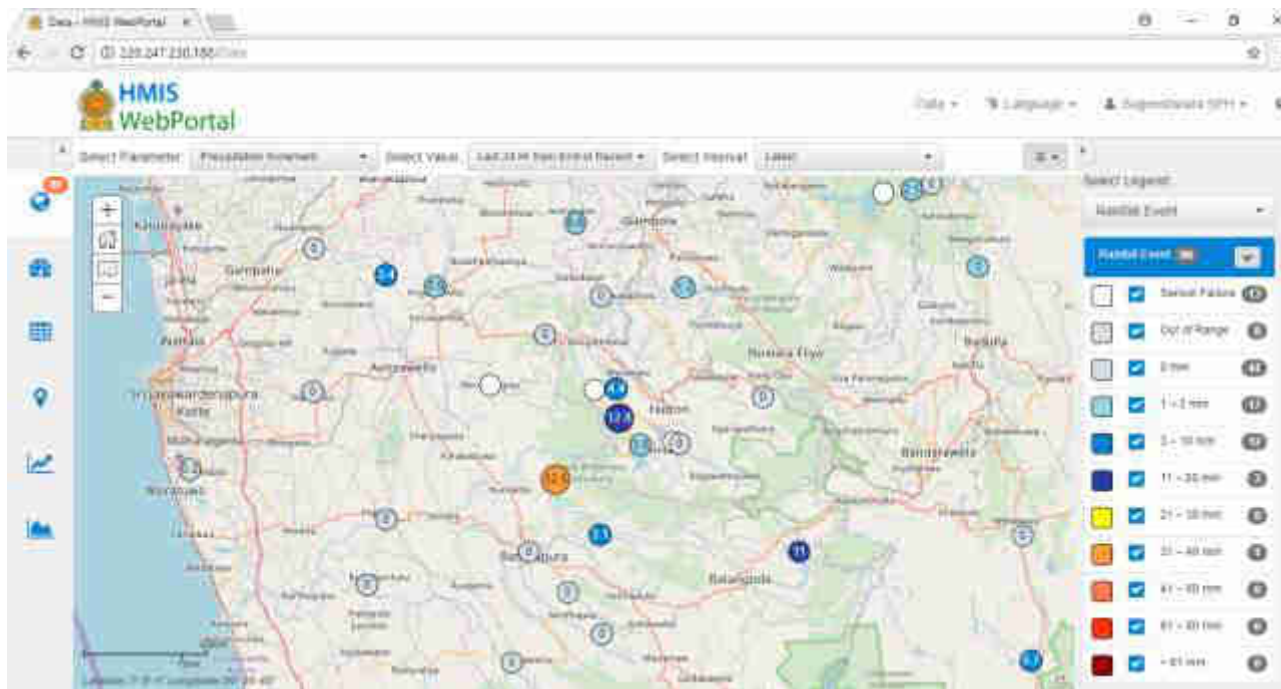
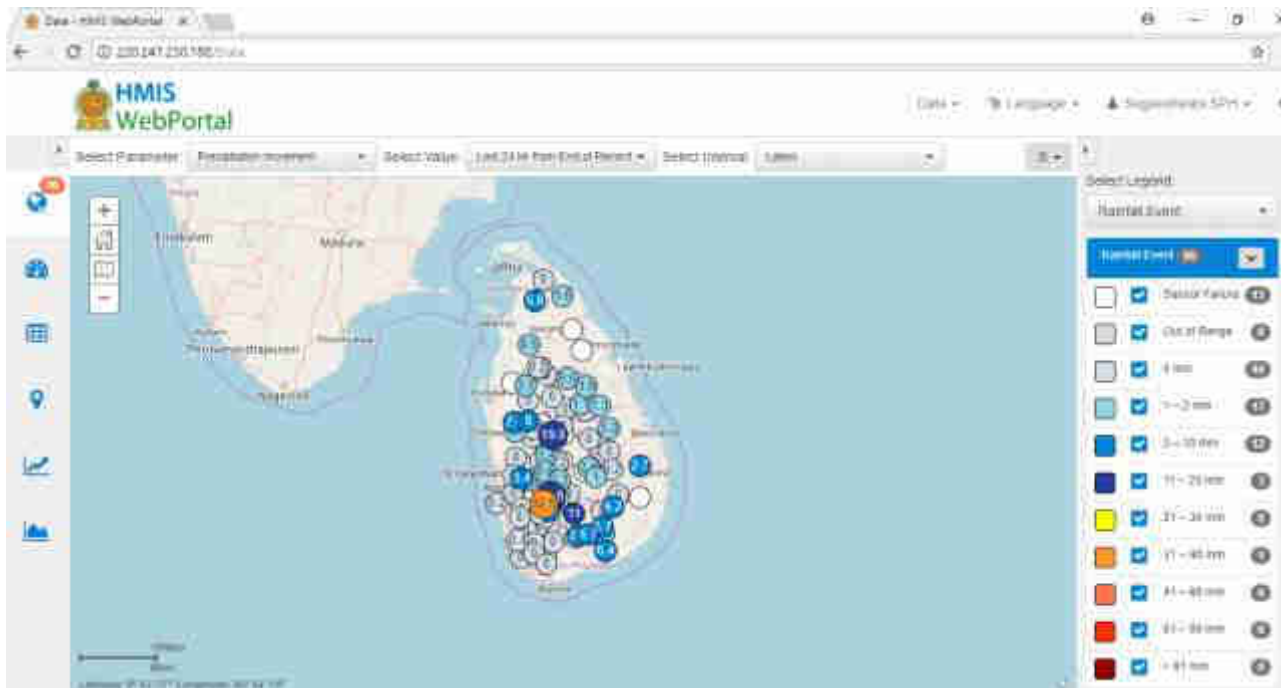
These stations are manned on 24*7 basis

Rivers are monitored hourly and data is transferred to head office daily

If there is any warning from Met Department or if there is any sign of a flood, the information are transferred immediately.

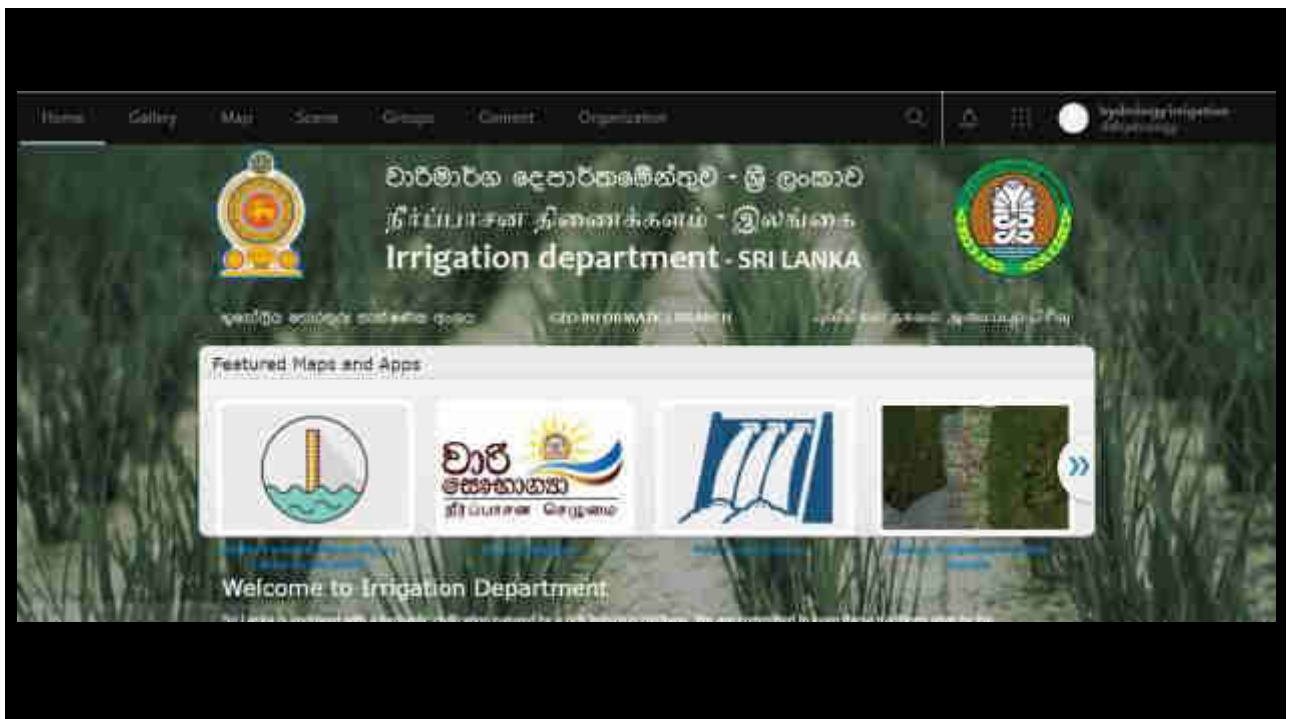
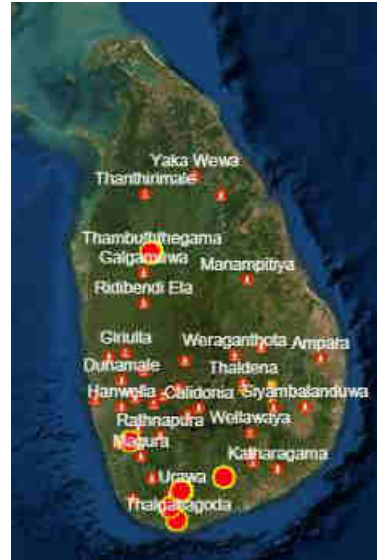
- There are 106 Manual River and Rainfall Monitoring Stations in Automated stem.
- Data is transferred in each 10 minutes.
- The system is monitored continuously.
- If there is any warning from Met Department or if there is any sign of a flood, the system is monitored very closely.

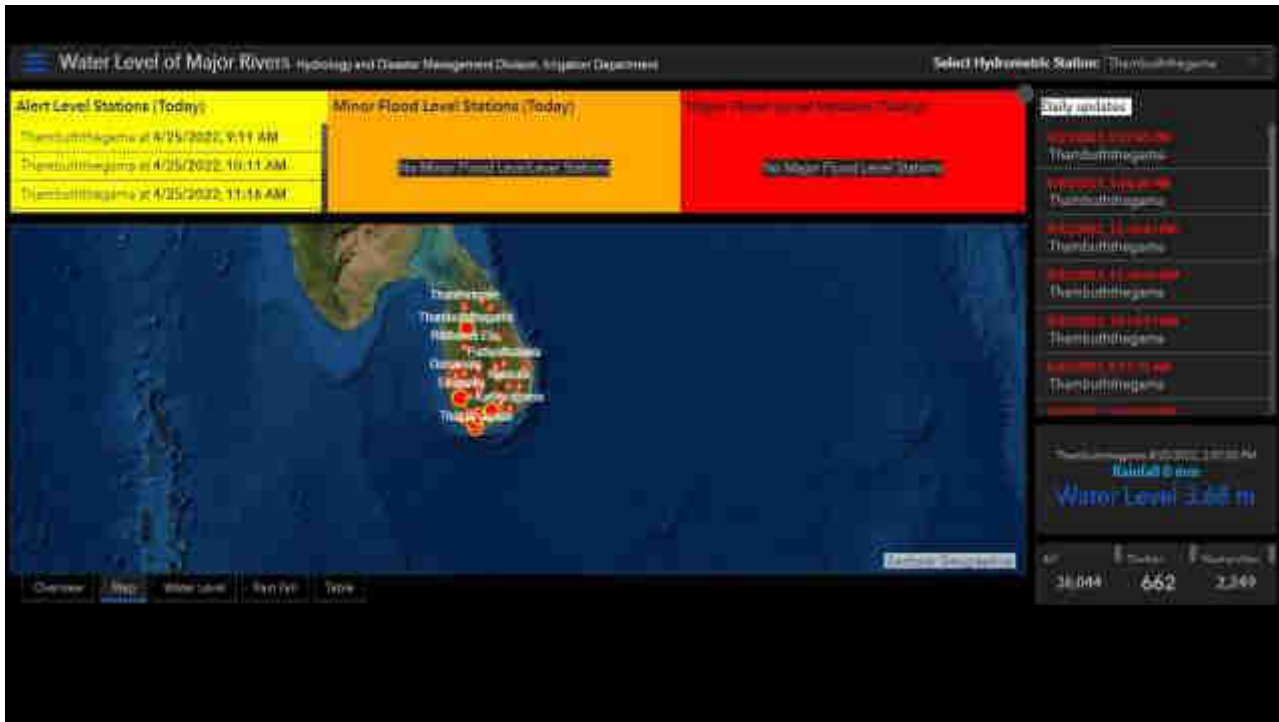




Flood Monitoring System of Irrigation Department - Semi Automated System (Hydrology & DM Dash Board)

- Hourly water levels and rainfall data of Manual River Gauging Stations are uploaded to a GIS web portal real time now.
- Data is transferred by Gauge Readers via mobile phones hourly.
- The system is monitored continuously.
- If there is any warning from Met Department or if there is any sign of a flood, the system is monitored very closely.
- The system is open and can visit through ID web site (www.irrigation.gov.lk)

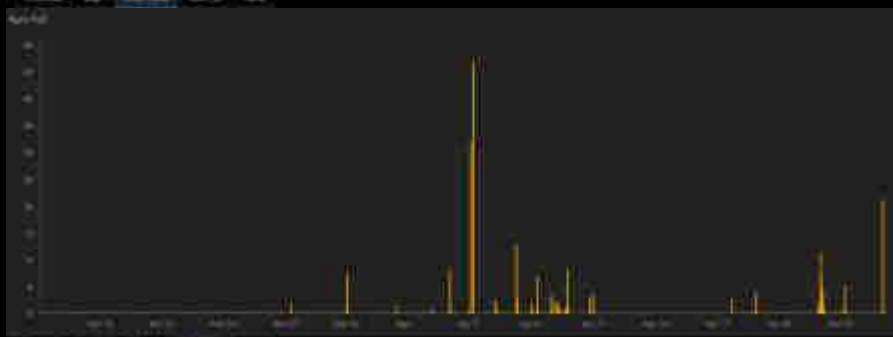




Behaviour of the Water Level at Giriulla Gauging Station from 18th of March to 25th April



Rainfall records at Giriulla Gauging Station from 18th of March to 25th April



District wise Summary of Water Storages

SUMMARY OF DAYLY WATER LEVEL & STORAGE OF MAJOR RESERVOIRS							
NO	RANGE	NO OF TANKS	STORAGE (Acut)				
			GROSS	DEAD	PRESENT	EFFECTIVE	
Acut.	%						
1	AMPARA	9	1,052,327	16,259	503,701	487,442	47%
2	ANURADAPURA	10	555,566	27,583	510,067	482,484	91%
3	BADULLA	7	78,266	4,138	51,359	47,221	64%
4	BATTICALOA	4	140,120	1,085	124,727	123,642	89%
5	HAMBANTOTA	10	378,065	34,172	262,218	228,046	66%
6	GALLE	2	3,160	-	2,605	2,605	82%
7	KANDY	3	28,450	386	26,738	26,352	94%
8	KURUNEGALA	10	142,381	5,670	117,348	111,678	82%
9	MONARAGALA	3	44,900	2,640	29,557	26,917	64%
10	POLONNARUWA	4	351,700	24,300	332,788	308,488	94%
11	PUTTALAM	2	74,233	8,400	58,121	49,721	76%
12	TRINCOMALEE	5	190,895	2,555	170,632	168,077	89%
13	MANNAR	4	67,924	675	59,134	58,459	87%
TOTAL		73	3,107,987	127,863	2,248,995	2,121,132	71%

ශ්‍රී ලංකා ජනරජයේ
ශ්‍රී ලංකා ප්‍රජාතන්ත්‍රවාදී සමාජවාදී ජනරජය
ඉංජිනේරු බෙදාහැරීමේ දෙපාර්තමේන්තුව
HYDROLOGICAL DEPARTMENT

සමස්ත වැරදි සහ අනුමැතිය
ඉංජිනේරු බෙදාහැරීමේ දෙපාර්තමේන්තුව
 මහල, මල්වත්ත, පලමු මහල, කොළඹ 03
 දුරකථන : 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 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