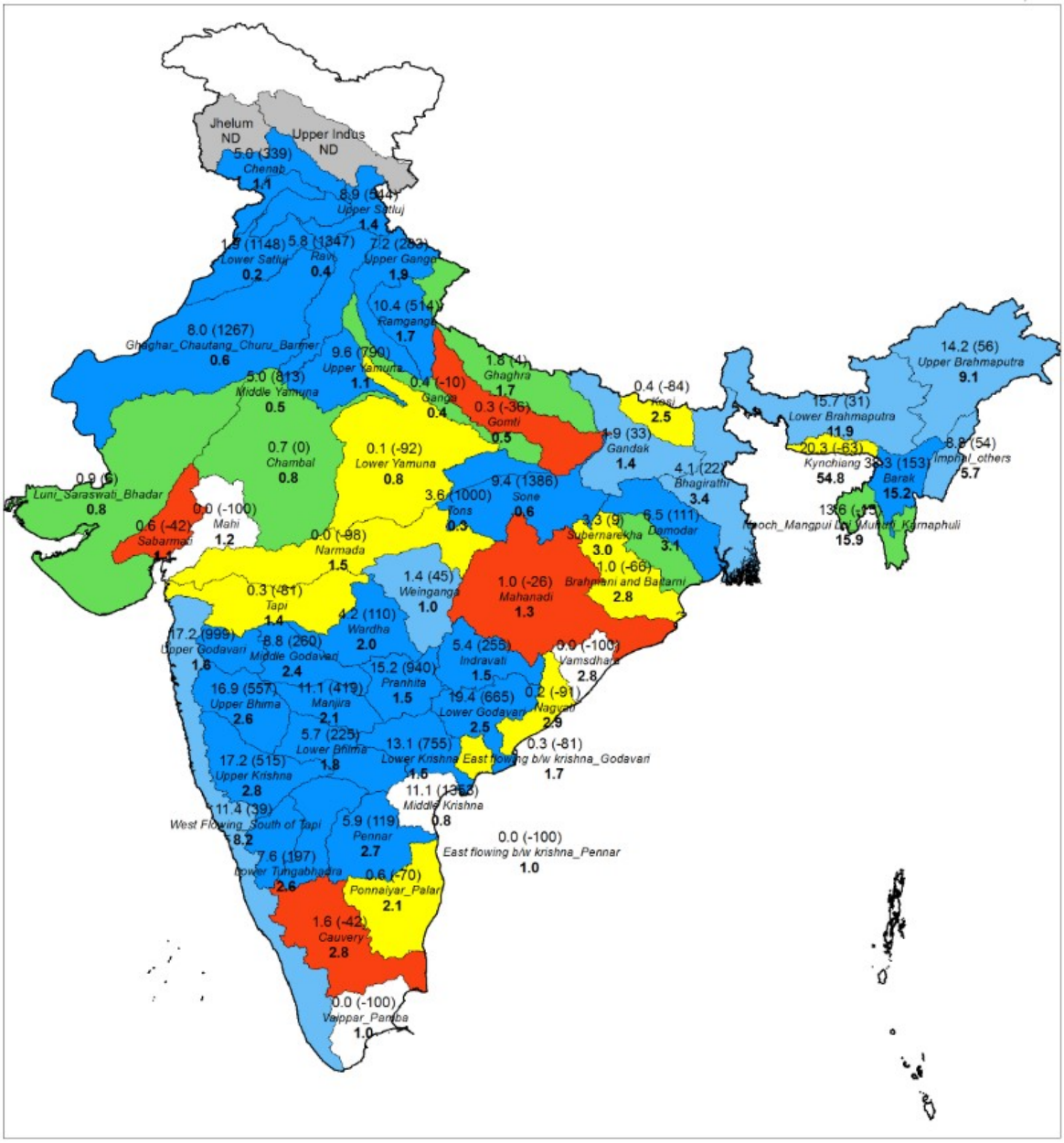
Central Water Commission
Daily Flood Situation Report cum Advisories
01-06-2020

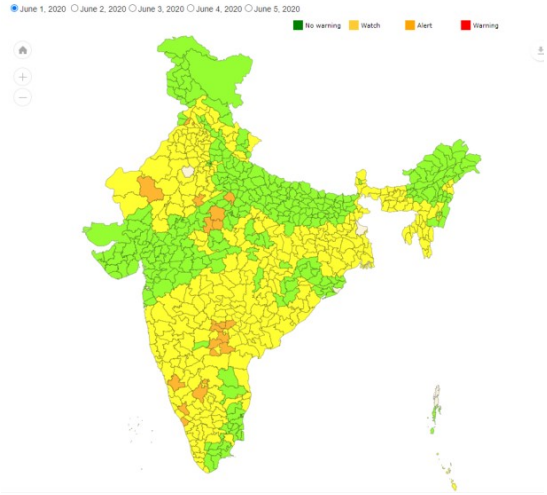
1.0 IMD information

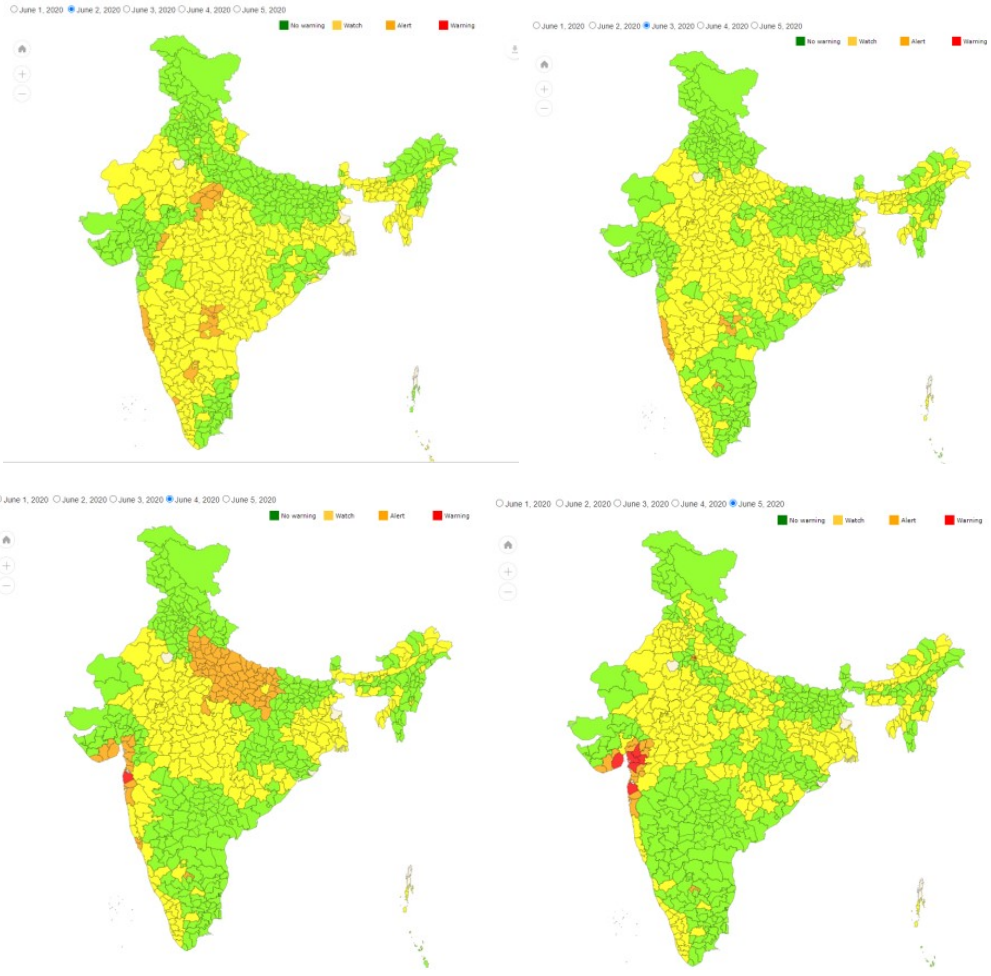
1.1 On 1st June 2020, most of the river basins in Peninsular India, North East and North India has received Normal to Large Excess Rainfall.



1.2 Rainfall forecast for next 5 days issued on1st June, 2020 (Midday) by IMD

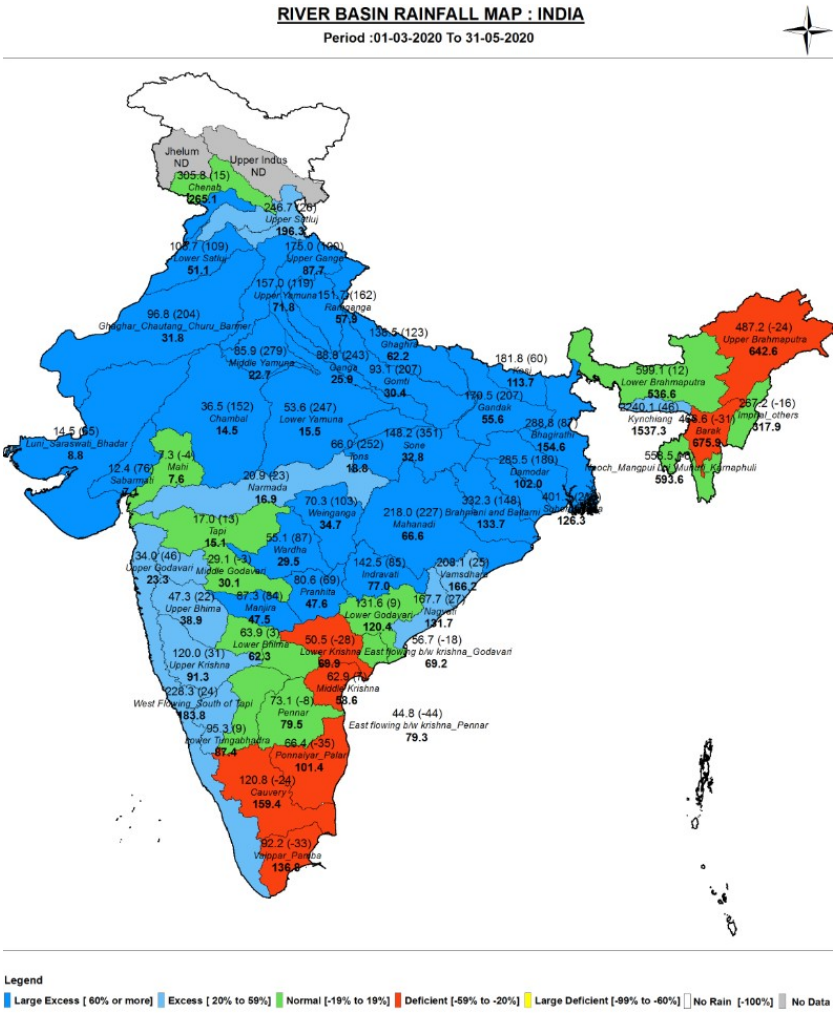
District wise Rainfall Forecast issued by IMD indicates that Heavy to Very Heavy rainfall is likely to occur in Districts of Kerala, Coastal Karnataka between June 1st to June 2nd, Heavy to Very Heavy rainfall is likely to occur in the Districts of South Konkan & Goa between June 2nd and June 4th. Heavy to Very Heavy rainfall with isolated Extremely Heavy Rainfall over North Konkan, Daman & Diu, Dadra & Nagar Haveli between June 4th and June 6th in association with the formation of Depression which is likely to intensity into a Severe Cyclonic Storm and cross North Maharashtra and South Gujarat between Raigad District of Maharashtra and Daman in UT of Daman & Diu. Maps showing the forecasts are given below:





1.3 Rainfall Situation in Pre-monsoon period from 1st March to 31st May 2020

During the pre-monsoon period from 1st March to 31st March, most of the Indian River basins have received Excess to Large Excess rainfall with the exception of Upper Brahmaputra, Barak, Lower & Middle Krishna, Cauvery and East Flowing Rivers between Cauvery and Kanyakumari. It can be inferred that most of the river basins have sufficiently adequate surface runoff potential in association with very heavy rainfall.



2.0 CWC inferences

2.1 Flood Situation 1st June, 2020

2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 1st June 2020, 5 stations are flowing in Above Normal Flood Situation.

PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
A	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	0
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	5
	Total number of sites above Warning Level (A+B+C)	5
PART - II: INFLOW FORECAST		
	Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)	0

Details can be seen in link http://cwc.gov.in/sites/default/files/cfcr-cwcdfb01062020_5.pdf

2.2 CWC Advisories

2.2.1 Maharashtra, Gujarat, Daman & Diu, Dadra &Nagar Haveli

Due to the rainfall forecast in association with the Depression which is likely to intensify into Cyclone and cross the coast as a Severe Cyclonic Storm between North Maharashtra and South Gujarat, there is likelihood of Heavy to Very Heavy rainfall in the Districts of Kozhikode, Kannur, Kasargod, Dakshina Kannada, udupi and Uttara Kannada on **2nd and 3rd June,** Heavy to Very Heavy rainfall in Districts of South and North Goa, Sindhudurg and Ratnagiri District **on 3rd and 4th June,** Heavy to Very Heavy rain over North Konkan with isolated Extremely Heavy Rainfall in Palgarh District **on 5th and** in Districts of Palghar in Maharashtra, Daman & Diu, Surat, Valsad, Bharuch, Anand and Bhavnagar District of Gujarat on **6th June 2020.**

The three day advisories of CWC indicate that there is likelihood of increase in river flow in the river basins of West Flowing Rivers in between Tapi and Tadri in the Districts of Ratnagiri, Palghar, Thane, Nasik, Aurangabad, Daman & Diu, Dadra & Nagar Haveli, Valsad District of Gujarat from 3rd June onwards. Since most of the rivers are dry, there may be sudden flow in the river. All the activities being undertaken in river channel should be stopped as there is likelihood of sudden rise in water level from dry condition. There may be some increase in inflows into dams in these regions. Since most of the dams in this regions are having storage between 0 and 40% on an average with a highest storage of 50% in Tillari Dam in Kolhapur District in Maharashtra, the forecasted rainfall may increase the storage to some extent in these dams. However watch has to be maintained.

Since there is likelihood of sudden heavy to very heavy rainfall in association with cyclone, there may be chances of flash flooding in West Flowing Rivers between Tapi and Tadri. The traffic movement along Highways and Railways in Konkan Railway, Central railway and Western Railway has to be regulated especially over old road and rail bridges.

Due to sudden heavy rainfall at the time of crossing of coast, there may be urban flooding like situation in Mumbai and its Sub-urban areas. There may be tidal waves also affecting once the storm nears the city which may not allow easy flow of river water into the seas.

There may be tidal waves in association with the movement of cyclone around the landfall point. Since Damanganga River joins Arabian Sea around Daman area where the cyclone is likely to make land fall, there may be backwater effect due to high tides in association with cyclone which may block the free flow of river water in to the sea. Necessary precautions have to be taken in coastal belt in Daman area. Map showing the current flood situation and the flood alerted Areas is given below:

2.2.2 Flood Alerted Districts:

Following Districts may be affected by sudden rise in flood waters from 03rd June onwards:

Maharashtra: Sindhudurg, Ratnagiri, Palghar, Thane, Mumbai, Nasik
Daman & Diu: Daman
Dadra & Nagar Haveli: Silvassa
Gujarat: Valsad

Flood Situation in Country on 01.06.2020