



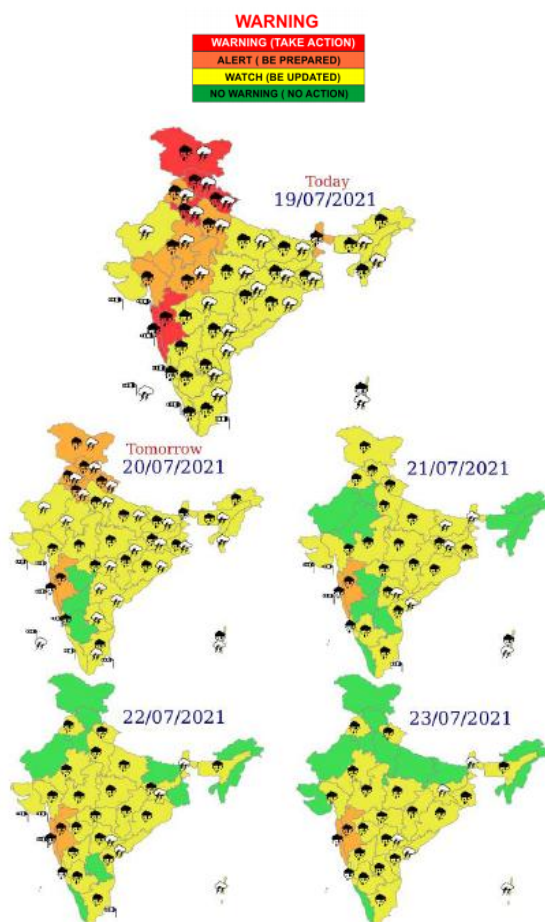
Central Water Commission
Daily Flood Situation Report cum Advisories
19-07-2021

IMD information

1.1 Chief amount of rainfall recorded at 0830 hours IST of today (12 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Uran (Maharashtra)	45
Ozharkheda (Maharashtra)	33
Tiba (Maharashtra)	29
Thane (Maharashtra)	28
Matheran & Murud (Maharashtra)	27 each
Dapoli & Kankavil (Maharashtra), Umergam (Gujrat)	24 each
Palampur (HP)	23
Igatpuri (Maharashtra)	22
Vikramgad, Mokheda, Mangaon & Lanja (Maharashtra), Kamrej (Gujrat)	21 each
Ulhasnagar (Maharashtra), Bardoli & Palsana (Gujrat), Behror (Rajasthan)	20 each
Sohna (Haryana), Nimrana (Rajasthan), Mormugao (Goa), Harnai (Maharashtra)	19 each
Khanvel (Dadra & Nagar Haveli), Gaganbawda (Maharashtra), Uttarkashi (Uttarakhand), Gopipur (HP)	18 each
Lonavala (Maharashtra),	17
Panjim (Goa), Ratnagiri (Maharashtra), Bijnor (UP), Gharmoor (HP), Haldwani (Uttarakhand)	15 each
Shahjahanpur (UP), Harsul (Maharashtra), Bansaur (Rajasthan), Palwal (Haryana)	13 each
Kathua (J&K), Narnaul (Haryana), Long Island (Andaman & Nikobar Islands)	12 each

1.2 Rainfall forecast for next 5 days issued on 19th July 2021 (Midday) by IMD



Heavy to very heavy/ Extremely heavy rainfall over : Konkan & Goa and Ghat Areas of Madhya Maharashtra during 19th- 23rd; over Coastal Karnataka during 21st- 23rd; over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana during 19th- 20th ; over during 19th- 23rd; over West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat region and Sub-Himalayan West Bengal & Sikkim

2.0 Flood Situation and Advisories

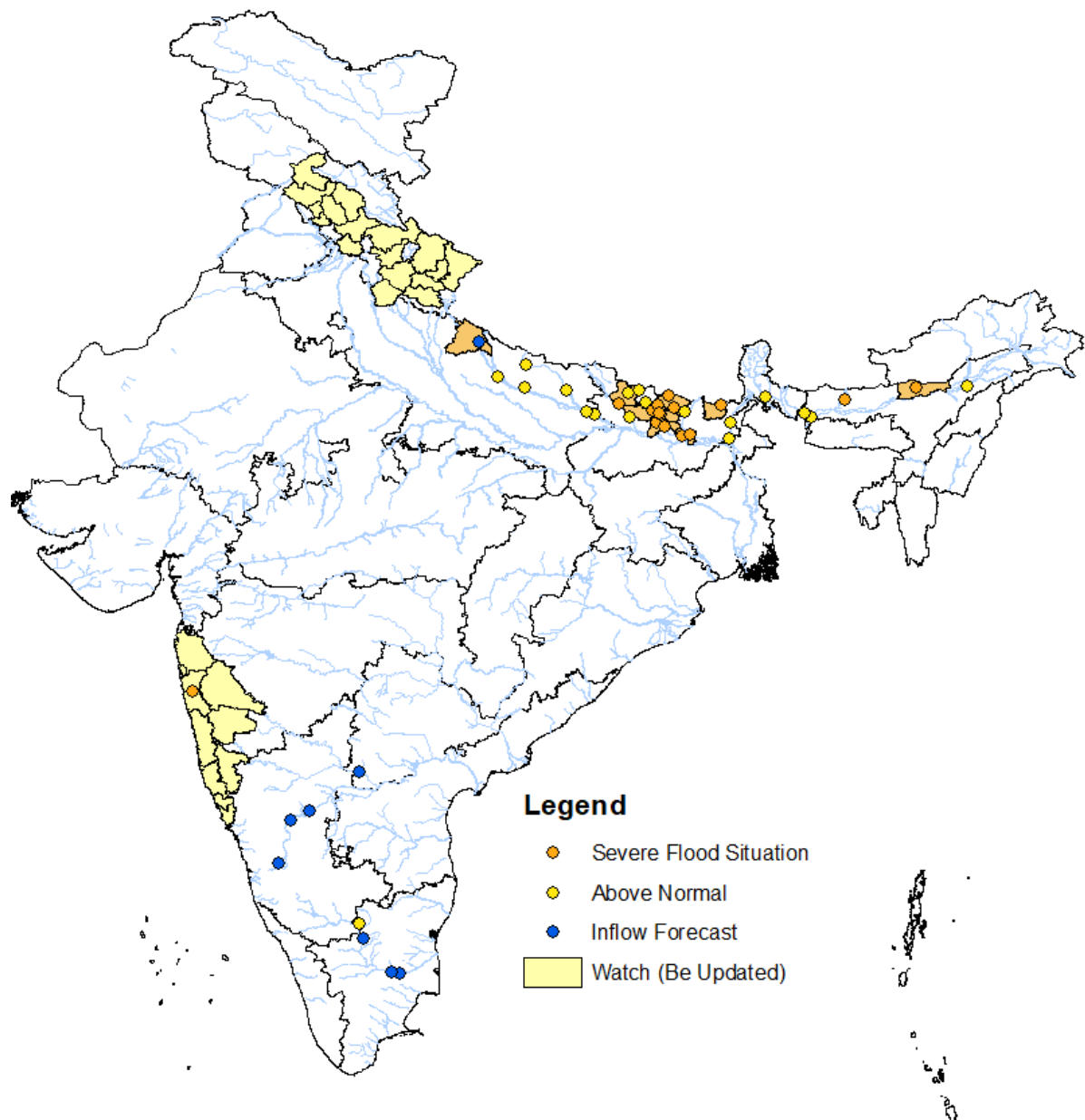
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 19th July, 2021, 15 Stations (12 in Bihar, 2 in Assam and 1 in Maharashtra) are flowing in Severe Flood Situation and 18 stations (8 in Bihar, 5 in Uttar Pradesh, 3 in Assam and 1 each in Tamilnadu & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 19 Barrages & Dams (10 in Karnataka, 3 each in Jharkhand & Tamilnadu, 1 each in Andhra Pradesh, Telangana & Uttar Pradesh)

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))	15
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	18
Total number of sites above Warning Level (A+B+C)		33
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)		19

Details are given at link: http://cwc.gov.in/sites/default/files/dfbcwc19072021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 West Flowing Rivers between Tapi and Tadri - Mumbai, Konkan and Goa, Coastal Karnataka

IMD has predicted Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places over Mumbai, Konkan & Goa and Coastal Karnataka. Very heavy rainfall is predicted over western ghat regions of south interior Karnataka. Under its effect the West flowing rivers from Tapi to Tadri such as Ulhas (Thane district); Bhogeshwari, Savithri & Kal of Raigad district; river Bav of Ratnagiri district are expected to rise. Similarly west flowing rivers from Tadri to Kanyakumari located in Karnataka, such as Aghanashini (Uttar kannada District); Haladi, Sita, Swarna and Shambavi of Udupi district; Gurpur & Netravathi of Dakshin Kannada district may also show rise due to incessant rains. Low level bridges and railway tracts crossing these rivers may get submerged and hence traffic to be regulated. Savithri river of Raigad district of Maharashtra is already flowing in severe flood situation. Storages of Konkan region is 56% as on today so major spill is not expected.

Since heavy rainfall is likely to continue along Ghats of Shivamogga, Chikmagalur, Hassan & Kodagu Districts, there is likelihood of inflow into all major reservoirs in Karnataka for next 2 days and close watch is to be maintained. Presently Linganamakki project (Sharavathi river), Varahi project on (Haladi river) and Supa project (Kali river) located in districts such as Shivmogga and Uttar Kannada respectively are storages in the range 23 to 53 % hence no spill is expected.

In **Mumbai**, watch for urban flooding situation has to be kept.

Cauvery basin – Karnataka, Tamil nadu

Due to forecasted heavy rainfall in the next 2-3 days, heavy inflows can be expected in Harangi, Hemavathi, Kabini and KRS dams and close watch is to be maintained as they are in rising trend. Kabini Dam is 87% full with water level at 694.86 m and FRL of the dam is 696.13 m. Harangi dam is 85% filled and Hemavathi is 62% filled. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States. As per hydrometeorological situation existing and forecast issued by field office of CWC, the inflow into Kabini, Harangi, Hemavathi are expected to follow steady trend.

Releases from Kabini dam during last 2 days are being realised at Mettur dam of Salem (Tamil Nadu) and at Dharmapuri district (Tamil Nadu).

2.2.2 Godavari and Krishna basin– Andhra Pradesh, Telangana, Karnataka & Maharashtra

In Krishna basin major projects such as Almati, Narayanpur, P D Jurala, Pulichintala and Warana dams are 60 to 95% filled. The excess inflows likely to be received due to forecasted rainfall should accordingly be regulated and released as per rule curves of both the dams. Reservoir Operation as per latest rule curves may have to be continued as is being done presently to avoid any downstream flooding and upstream submergence. Since heavy rains are predicted in Shivmogga and Chikmagalur districts, rise in water levels are expected in Tungabhadra river. Similarly rise in water levels are expected in Bhima and main Krishna rivers due to heavy rains in Pune, Satara, Kolhapur, Sangli (of Maharashtra) and Belagavi district of Karnataka. Releases, if any, should be done following SOP & after informing all downstream districts /lower riparian state. As per current hydrological situation P.D.Jurala (Mahbubnagar dist.), Tungabhadra dam (Bellary Dist.), Singatalur Barrage (Gadag dist.) & Srisailem (Kurnool) are expected to get inflows with rising trend.

Waterlevels may rise slowly from Day 1 to Day 5 due to rainfall in sub catchments of Godavari Basin. As PVNRaoKantapally (Sammakka) Barrage, is passing (98,045 Cusecs) water due to inflows into the barrage, the same will reach downstream and water levels of downstream sites will rise, hence it is advised that the sites from Kaleswaram to Dowlaiswaram to be watchful.

2.2.3 Ganga and Yamuna Basin – Bihar, Uttar Pradesh, Uttarakhand

Currently river Ghagra, Rapti, Gandak, Bagmati, Kamla, Burhi Gandak, Adhwara, Mahananda, Parman & Kosi are flowing in severe to above normal flood situation in districts Barabanki, Gorakpur, Ayodhya, Ballia, Balrampur (of Uttar Pradesh), Siwan, Purba Champaran, Muzaffarpur, Gopalganj, Darbhanga, Madhubani, Khagaria, Supaul, Samastipur, Purnia, Araria, Sitamarhi & Katihar (of Bihar).

Abatement of water levels in above mentioned rivers of Bihar are expected to be very slow.

In Yamuna Basin the situations are expected to be normal. Anyhow very heavy rains happening in the basin can lead to urban flooding in Delhi, NCR regions of Gurgaon & Faridabad.

2.2.4 Brahmaputra and its tributaries – Assam, Sikkim, Arunachal Pradesh & Sub Himalayan Bengal

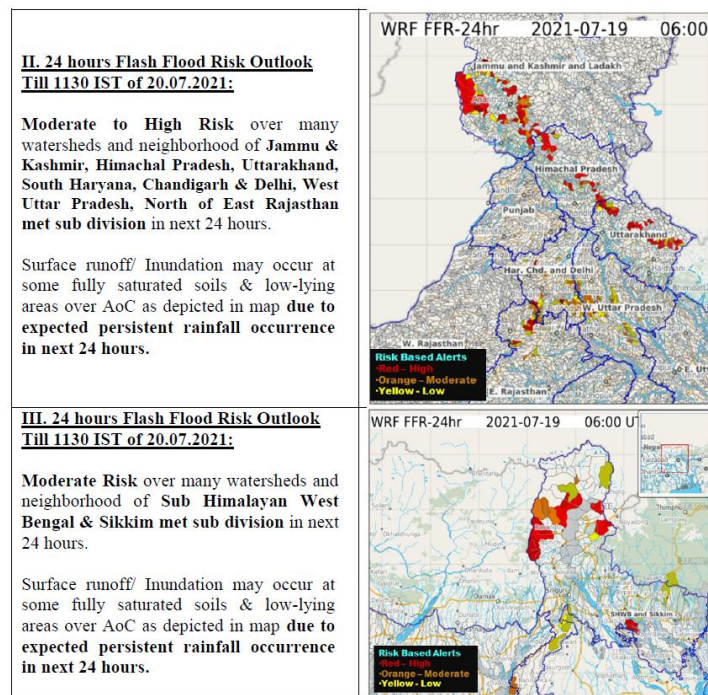
Jia-Bharali river is flowing in severe flood situation in Sonitpur district, while river Sankosh in Dhubri district and Beki at Barpeta are flowing in above normal flood situation. Brahmaputra is flowing in above normal situation at district Jorhat of Assam.

2.2.5 Jhelum and Chenab basin – Jammu & Kashmir, Punjab

Close watch to be maintained in Jhelum, Chenab and Sahibi river.

2.3 Flash Flood Guidance

IMD has issued flash flood risk over many watersheds and neighbourhood for Jammu & Kashmir, Himachal Pradesh, Uttarakhand, South Haryana, Chandigarh & Delhi, West UP, North & East Rajasthan.



3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 19th July 2021

Reservoirs shown in **red** are having gross storage capacity **more than 80%** and those in **orange** are having gross storage **greater than 60%**. Close watch is to be maintained at these reservoirs whenever Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) warning in next 120 hours are given

QPF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100

#	Reservoir/ Dams	River/ Sub-Basin / Basin	State	US/ DS District	Rainfall situation				
					Day 1	Day 2	Day 3	Day 4	Day 5
1	Pulichinthala	Krishna/Lower Krishna/ Krishna	Andhra Pradesh	Nalgonda(Telangana)/Guntoor , Krishna(AP)					
2	P D Jurala Project	Krishna/ Middle Krishna/Krishna	Telangana	Raichur(Kar)/Kurnool(Andhra Pradesh),Jogulamba Gadwal(Telangana)					
3	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/JaishankarBhupal pally					
4	Sriramsagar Project	Godavari/ Middle Godavari/Godavari	Telangana	Nanded (Maharashtra)/Nirmal (Telangana)					
5	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
6	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad,Nirmal/Mancherial					
7	Panchet	Damodar/ Damodar East/ Ganga	Jharkhand	Dhanbad					
8	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad					
9	Narayanpur	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot, Vijayapura/Raichur,Yadgir					
10	Kabini	Kabini/Kabini/	Karnataka	Wayanad (Kerala)/ Mysuru					

		Cauvery		(Karnataka)					
11	Harangi	Cauvery/Upper Cauvery/Cauvery	Karnataka	Kodagu/Mandya					
12	Almatti	Krishna/ Upper Krishna/ Krishna	Karnataka	Kolhapur (Maharashtra)/ Bagalkote (Karnataka)					
13	Karanja	Karanja/Manjera/ Godavari	Karnataka	Bidar (Kar), Vikarabad(Telangana)/ Bidar(Kar)					
14	Hemavathy	Hemavathy/Hema vathy/Cauvery	Karnataka	Hassan, Kodagu/Mandya, Mysore					
15	Warana	Warana/Upper Krishna/Krishna	Maharashtra	Kolhapur, Sangli					
16	Yeldari	Purna/Purna/Goda vari	Maharashtra	Parbhani, Hingoli					
17	Rana PratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/ Dholpur, Kota, Bundi(Raj)					
18	SomKamlaAmba	Som/Mahi B/ Mahi	Rajasthan	Udaipur/ Dungarpur					
19	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/Madurai					
20	Bhavanisagar	Bhavani/ Middle Cauvery/ Cauvery	Tamil Nadu	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
21	Chembarampakka m	Adayar/ Korattaliyar/East Flowing Rivers bet Pennar & Cauvery	Tamil Nadu	Kancheepuram(TN)/Che nnai, Chengalpet(TN)					

Note- Based on above information, Project Authority may regulate the reservoirs as per standard operating manuals/ rule levels to avoid downstream flooding and upstream submergence.