



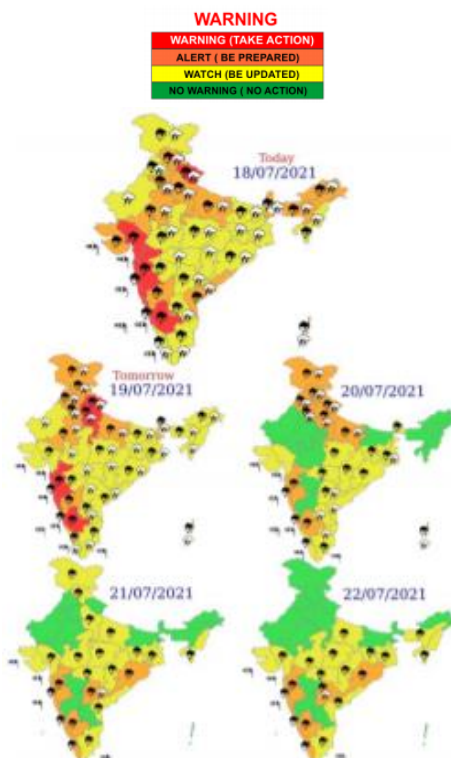
Central Water Commission
Daily Flood Situation Report cum Advisories
18-07-2021

1.0 IMD information

1.1 Chief amount of rainfall recorded at 0830 hours IST of today (10 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Daman (Daman & Diu)	32
Ratnagiri (Maharashtra)	26
Gorakhpur(U.P.)	25
Palghar(Maharashtra)	24
Anantapur (Andhra Pradesh), Mumbai(Santacruz)(Maharashtra)	23 each
Thane(Maharashtra)	21
Mumbai(Colaba) (Maharashtra)	20
Raigad(Maharashtra)	18
Dahanu(Maharashtra)	17
Sant Kabir Nagar(U.P.), Guntur(Andhra Pradesh), Dadra & Nagar Haveli	15 each
Bahraich(U.P.), Shivpuri(M.P.), Valsad (Gujarat) & Matheran(Maharashtra)	14 each
Ambedkarnagar(U.P.), S. Andaman & Bulsar(Gujarat) and Hut Bay (Andaman)	13 each
Kolhapur(Maharashtra), Siddharthnagar(U.P.), Navsari (Gujarat)& Mangalore(Karnataka)	12 each
Bajpe(Karnataka)	11
Balrampur (U.P.), Krishnagiri, Tiruvannamalai (Tamil Nadu) & Kangra (Himachal Pradesh)	10 each

1.2 Rainfall forecast for next 5 days issued on 18th July 2021 (Midday) by IMD



- Rainfall activity is very likely to increase with isolated **heavy to very heavy** falls very likely over Western Himalayan Region (Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) and adjoining northwest India (Punjab, Haryana, Rajasthan, Uttar Pradesh and north Madhya Pradesh) from 18th to 21st July, 2021 and decrease in rainfall activity over the same regions thereafter. Isolated **extremely heavy falls** also very likely over Uttarakhand on 18th & 19th July and over northwest Uttar Pradesh on 19th July, 2021. Moderate to heavy rainfall at isolated places also very likely over Delhi and Chandigarh on 18th & 19th July, 2021.
- Isolated **heavy to very heavy falls** very likely to continue over west coast and adjoining inland areas during next 5-6 days. Isolated **extremely heavy falls** also very likely over Konkan & Goa & adjoining Gghat areas of Madhya Maharashtra, Coastal & South Interior Karnataka during 18th & 19th; over Gujarat region on 18th July, 2021.

2.0 Flood Situation and Advisories

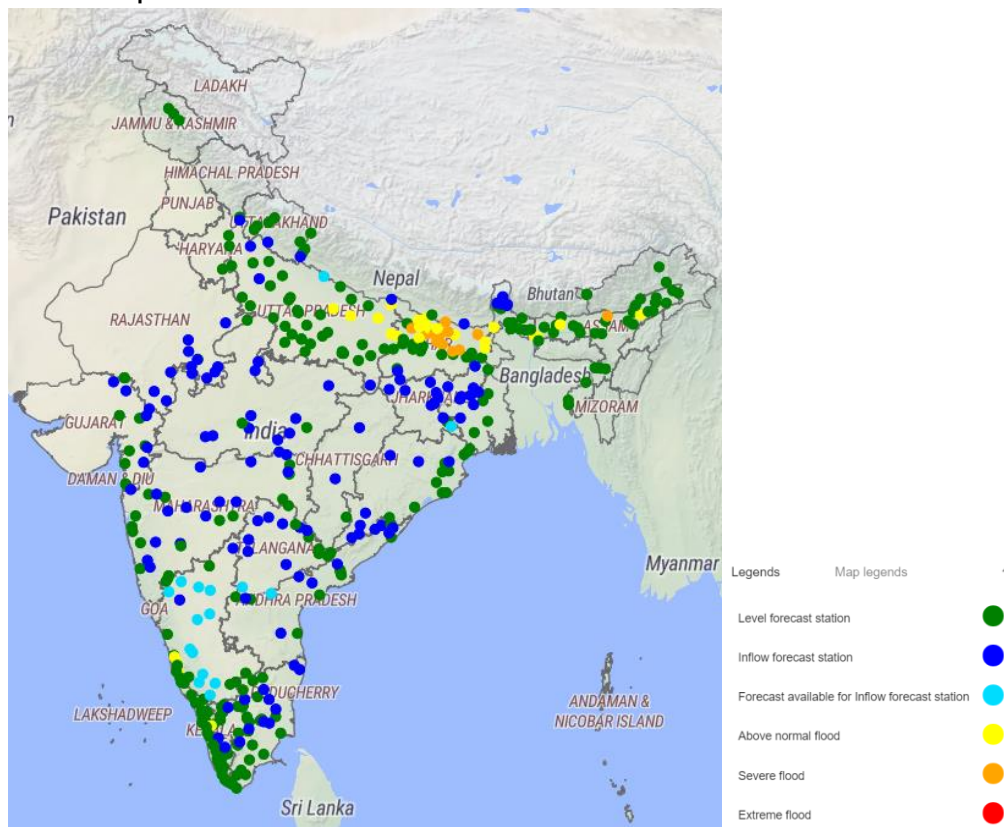
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 18th July, 2021, 13 Stations (12 in Bihar & 1 in Assam) are flowing in Severe Flood Situation and 23 stations (11 in Bihar, 5 in Uttar Pradesh, 4 in Assam, 2 in Karnataka & 1 in Kerala) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 16 Barrages & Dams (12 in Karnataka, 1 each in Uttar Pradesh, Jharkhand, Andhra Pradesh & Telangana)

FLOOD SITUATION SUMMARY		
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))	13
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	23
Total number of sites above Warning Level (A+B+C)		36
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)		16

Details are given at link: http://cwc.gov.in/sites/default/files/cfrcwcdfb-18.07.2021-2_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 very likely over Coastal Karnataka; Heavy to Very Heavy Rainfall at isolated places over Konkan & Goa. Since most of the dams in the region have storage of the order of 30 to 65% of their Full capacity, the present rainfall may aid in increase of storage and there is no likelihood of any spill from any reservoir in this spell of rain.

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

Heavy rainfall to very heavy rainfall is likely to continue in the Coastal Districts and in Western Ghat areas in Karnataka, many of the rivers have started rising. River Swarna and Sita are flowing in above normal situation in **Udupi** district. River Netravathi is flowing in above normal situation in **Dakshin Kannada** district. 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.

However, most of the dams in this reach such as Linganamakki, Supa and Varahi are having only 15-50% of their full capacity, this rain may help in increasing the storage of these reservoirs and no major spillage is expected.

In Kerala river Gayathri is flowing in above normal flood situation.

Cauvery basin

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 88% full with water level at 695.696.16 m. Today's inflows into Kabini is of the order 14,333 cusec (406 cumec) and Harangi dam is 87% 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.

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

Almatti Dam is having storage of 77% and Narayanpur Dam is having storage of 91%. As on today the inflows into the said dams are of the order 52,247 cusec (1479 cumec) and 60,186 cusec (1704 cumec) respectively. 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.

Releases, if any, should be done following SOP & after informing all downstream districts /lower riparian state. As per current hydrological situation inflows into P.D.Jurala (Mahbubnagar dist.), Narayanpura (Bijapur dist.), Thungabhadra dam (Bellary Dist.) and Singatalur Barrage (Gadag dist.), Almatti dam (Bijapur dist.), Srisailem (Kurnool) are expected to get more or less steady inflows.

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

In Nepal Mahakali, Narayani, West Rapti and Kankai river basins have received light to moderate rains with isolated very heavy rains. 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, Kushinagar (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.

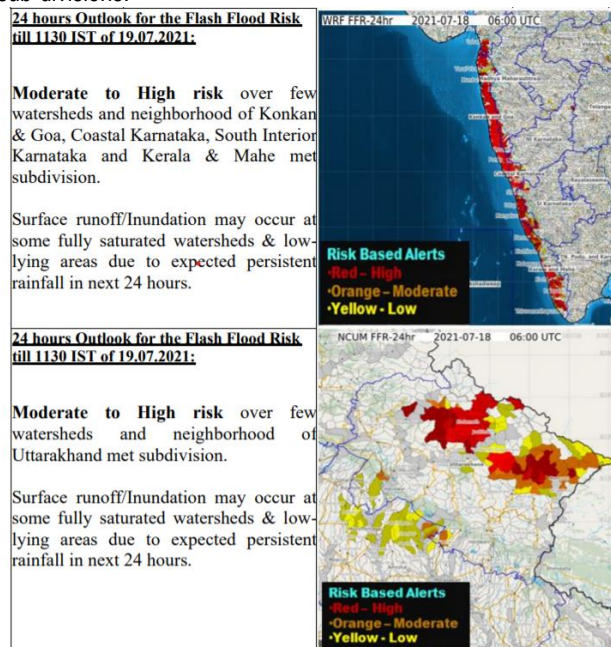
In Yamuna Basin the situations are expected to be normal.

2.2.5 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.

2.3 Flash Flood Guidance

IMD has issued flash flood risk over many watersheds and neighbourhood for Coastal & South Interior Karnataka, Konkan & Goa and Kerala & Mahe and Uttarakhand met sub-divisions.



3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 17th 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

Q/PF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100
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Storage above 85%	
Storage above 60%	

#	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(Tel)/Guntoor, Krishna(AP)					
2	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad,Nirmal/Mancherial					
3	Panchet	Damodar/ Damodar East/ Ganga	Jharkhand	Dhanbad					
4	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad					
5	Almatti	Krishna/ Upper Krishna/ Krishna	Karnataka	Kolhapur (Maharashtra)/ Bagalkote (Karnataka)					
6	Narayanpur	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot, Vijayapura/Raichur,Yadgir					
7	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)					
8	Karanja	Karanja/Manjera/ Godavari	Karnataka	Bidar (Kar), Vikarabad(Telangana)/ Bidar(Kar)					
9	Harangi	Cauvery/Upper Cauvery/Cauvery	Karnataka	Kodagu/Mandya					
10	Warana	Warana/Warana/ Warana	Maharashtra	Kolhapur, Sangli					
11	Yeldari	Purna/Purna/God avari	Maharashtra	Parbhani, Hingoli					
12	Rana Pratap Sagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/ Dholpur, Kota, Bundi(Raj)					
13	Som Kamla Amba	Som/Mahi B/ Mahi	Rajasthan	Udaipur/ Dungarpur					
14	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/JaishankarBhupa lpally					
15	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
16	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/Madurai					
17	Bhavanisagar	Bhavani/ Middle Cauvery/ Cauvery	Tamil Nadu	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
18	Hemavathy	Hemavathy/Hema vathy/Cauvery	Karnataka	Hassan, Kodagu/Mandya, Mysore					

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.