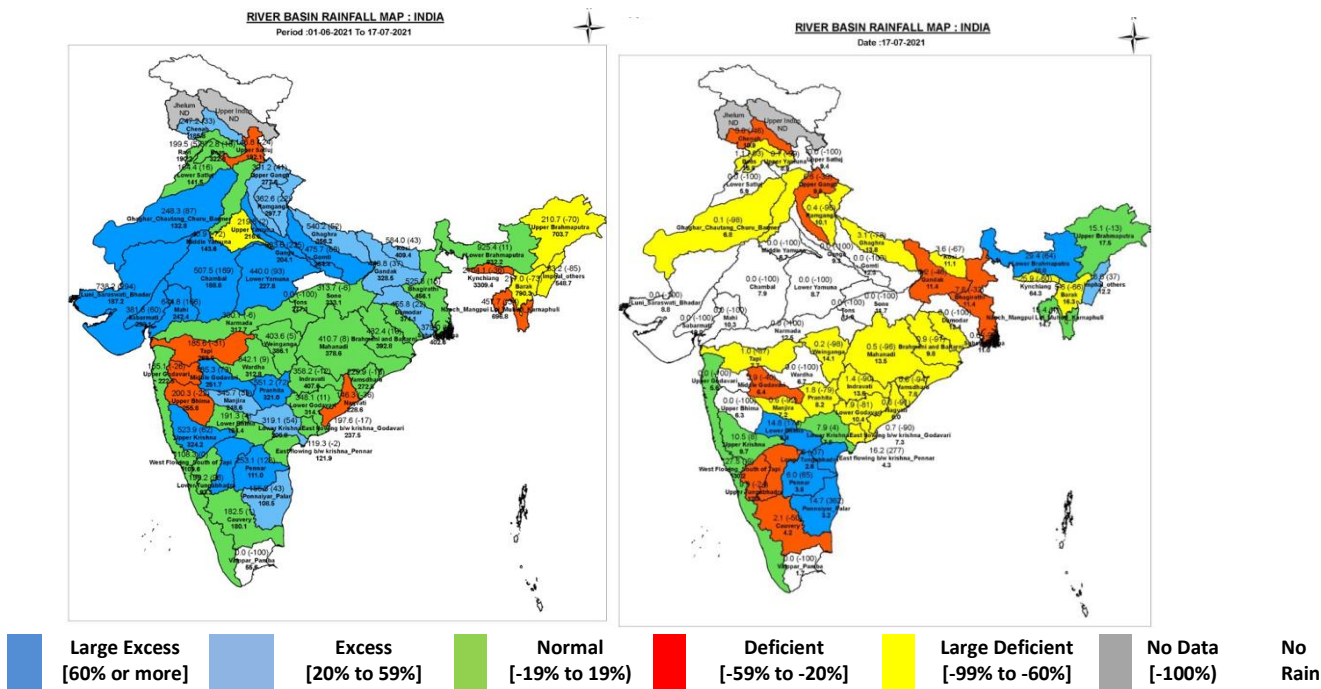




Central Water Commission
Daily Flood Situation Report cum Advisories
17-07-2021

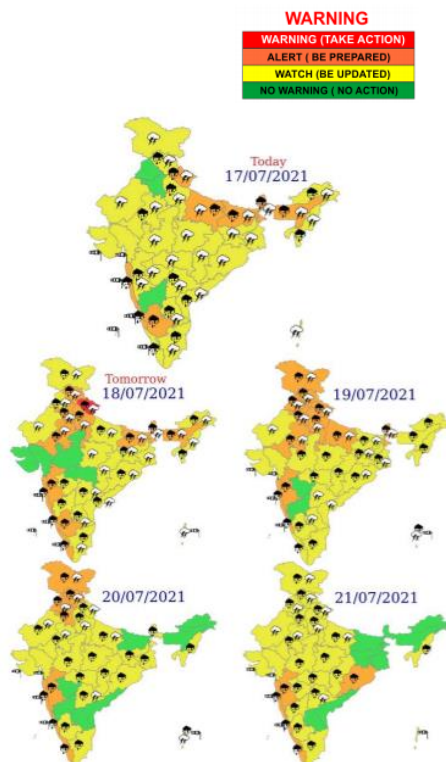
1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall



Notes: a) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm)
 b) Percentage departures of rainfall are shown in brackets.

1.2 Rainfall forecast for next 5 days issued on 17th July 2021 (Midday) by IMD



- Rainfall activity is very likely to increase with fairly widespread to widespread rainfall with heavy to very heavy falls over Western Himalayan Region and Uttar Pradesh from 17th to 21st July, 2021 and over Punjab, Haryana, East Rajasthan and north Madhya Pradesh from 18th to 21st July and isolated heavy falls over Delhi on 18th July, 2021. Isolated extremely heavy falls also likely over Jammu division and Himachal Pradesh on 19th and Uttarakhand on 18th & 19th July.
- Fairly widespread to widespread rainfall with isolated heavy falls very likely to continue over west coast and rest parts of west Peninsular India except over Gujarat state during next 5-6 days. Isolated heavy to very heavy falls very likely over Konkan & Goa, Ghat areas of Madhya Maharashtra, Coastal & South Interior Karnataka and Kerala & Mahe during same period.

Isolated/Scattered extremely heavy falls also very likely over Konkan & Goa during 18th-21st and Isolated extremely heavy falls over Ghat areas of Madhya Maharashtra on 20th & 21st July, 2021.

- Widespread rainfall with isolated heavy falls likely over northeast India and Sub-Himalayan west Bengal & Sikkim till 19th July and decrease in intensity thereafter. Isolated very heavy rainfall likely over Assam & Meghalaya on 17th & 18th and Sub-Himalayan west Bengal & Sikkim during 17th-19th July, 2021.

2.0 Flood Situation and Advisories

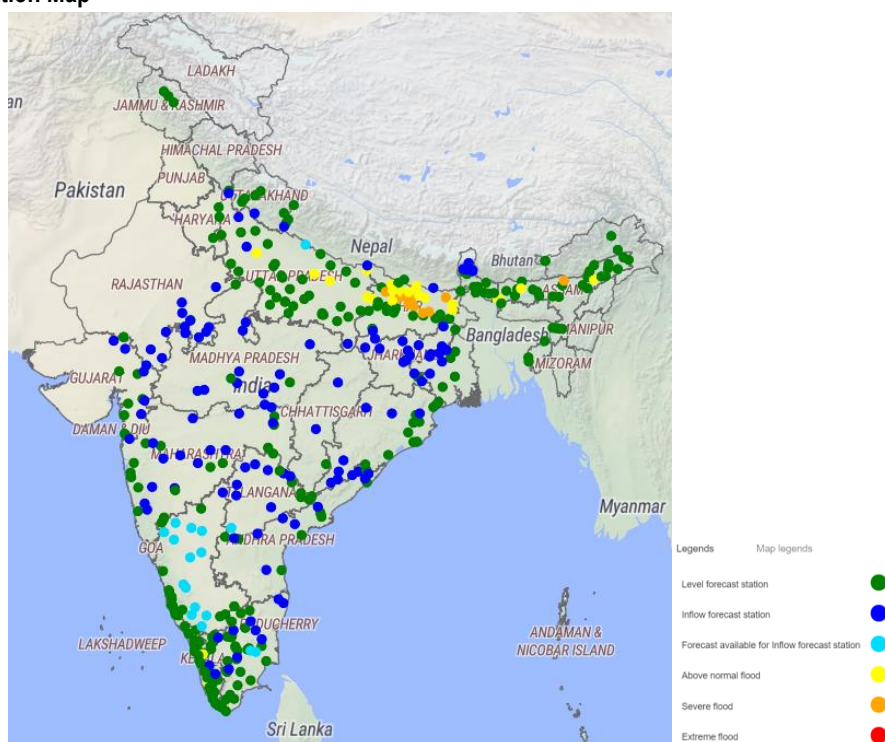
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 17th July, 2021, 11 Stations (10 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 Kerala & 1 in Karnataka) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 16 Barrages & Dams (12 in Karnataka, 2 in Tamil Nadu, 1 in Telangana & 1 in Uttar Pradesh)

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))	11
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)		34
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-17.07.2021-2_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 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. 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 and Manimala is flowing in above normal flood situation. Water levels at most of the stations are in slightly falling trend as per current data collected on hourly basis by CWC.

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 89% full with water level at 695.08 m compared to rule level of 694.25m, today's inflows into Kabini is of the order 17,859 cusec (505.7 cumec) and Harangi dam is 88% filled. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States.

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 89%. 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 Singatapur Barrage (Gadag dist.) are expected to get more or less steady inflows and in inflows into Almatti dam is expected to fall slightly.

Water levels may rise slowly from Day 1 to Day 5 due to rainfall in sub catchments of Godavari Basin. As Laxmi Barrage, is passing (42.380 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 Basin – Bihar, Uttar Pradesh

In Nepal Narayani, Babai, Rapti, Tinau, Kosi, Bagmati and Kankai river basins have received light to moderate rains with isolated very heavy rains. Currently river Ghagra, Rapti, Gandak, Bagmati, Kamla, Burhi Gandak, Adhwar, Mahananda, Parman & Kosi are flowing in severe to above normal flood situation in districts Barabanki, Ayodhya, Ballia, Kushinagar (of Uttar Pradesh), Siwan, Purba Champaran, Muzaffarpur, Gopalganj, Darbhanga, Madhubani, Khagaria, Supaul, Samastipur, Purnia, Araria & Katihar (of Bihar). Ganga is flowing in above normal flood situation in district Budaun of Uttar Pradesh.

Flash flood guidance of IMD for Nepal, and IMD weather forecast for Nepal, Uttar Pradesh and Bihar predicts heavy rains in Nepal, Uttar Pradesh and Bihar for next 2 to 3 days, hence water level is expected to rise in above mentioned rivers. Abatement of water levels in above mentioned rivers of Bihar are expected to be very slow.

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 Brahmaputra in Jorhat & Dhubri districts and Beki at Barpeta are flowing in above normal flood situation. Heavy rainfall is expected in Beki, Sankosh, Jaldhaka, Torsa and Lower Teesta rivers hence close watch to be maintained.

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.

QPF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100
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#	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/Godavari	Maharashtra	Parbhani, Hingoli					
12	Rana PratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/ Dholpur, Kota, Bundi(Raj)					
13	SomKamlaAmba	Som/Mahi B/ Mahi	Rajasthan	Udaipur/ Dungarpur					
14	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/JaishankarBhupalpal ly					
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)					

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.