

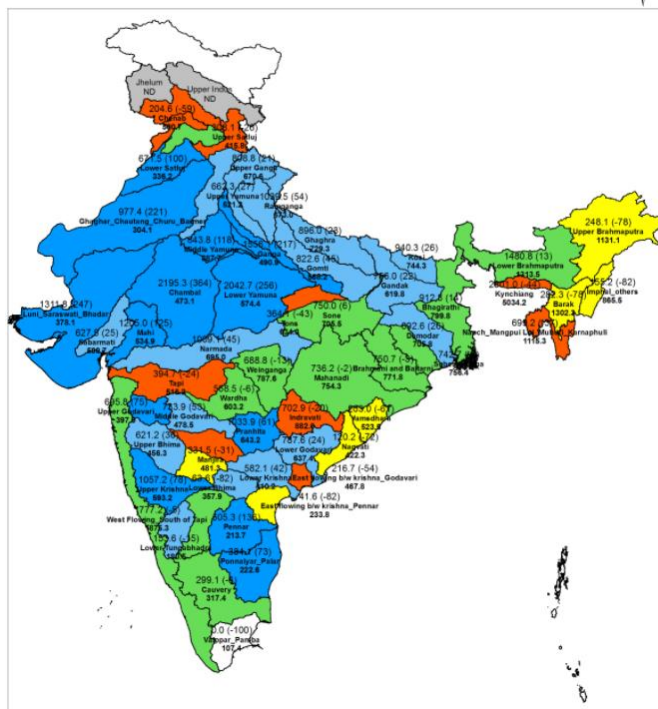


Central Water Commission
Daily Flood Situation Report cum Advisories
18-08-2021

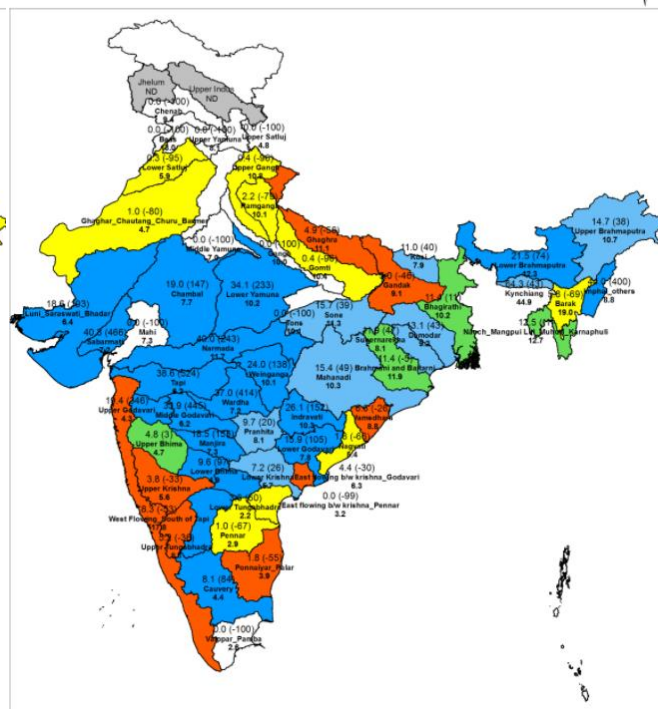
1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall

RIVER BASIN RAINFALL MAP : INDIA
 Period :01-06-2021 To 18-08-2021

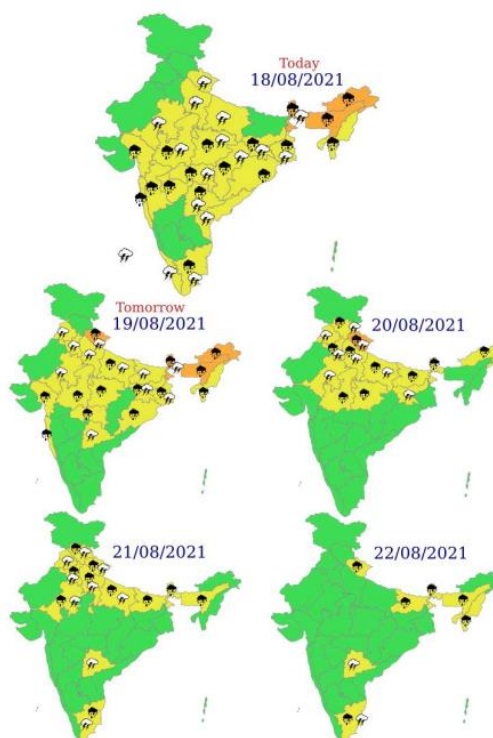


RIVER BASIN RAINFALL MAP : INDIA
 Date :18-08-2021



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 18th August, 2021 (Midday) by IMD



- Very heavy rainfall over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim on 18th & 19th; over Uttarakhand on 19th & 20th August, 2021.

2.0 Flood Situation and Advisories

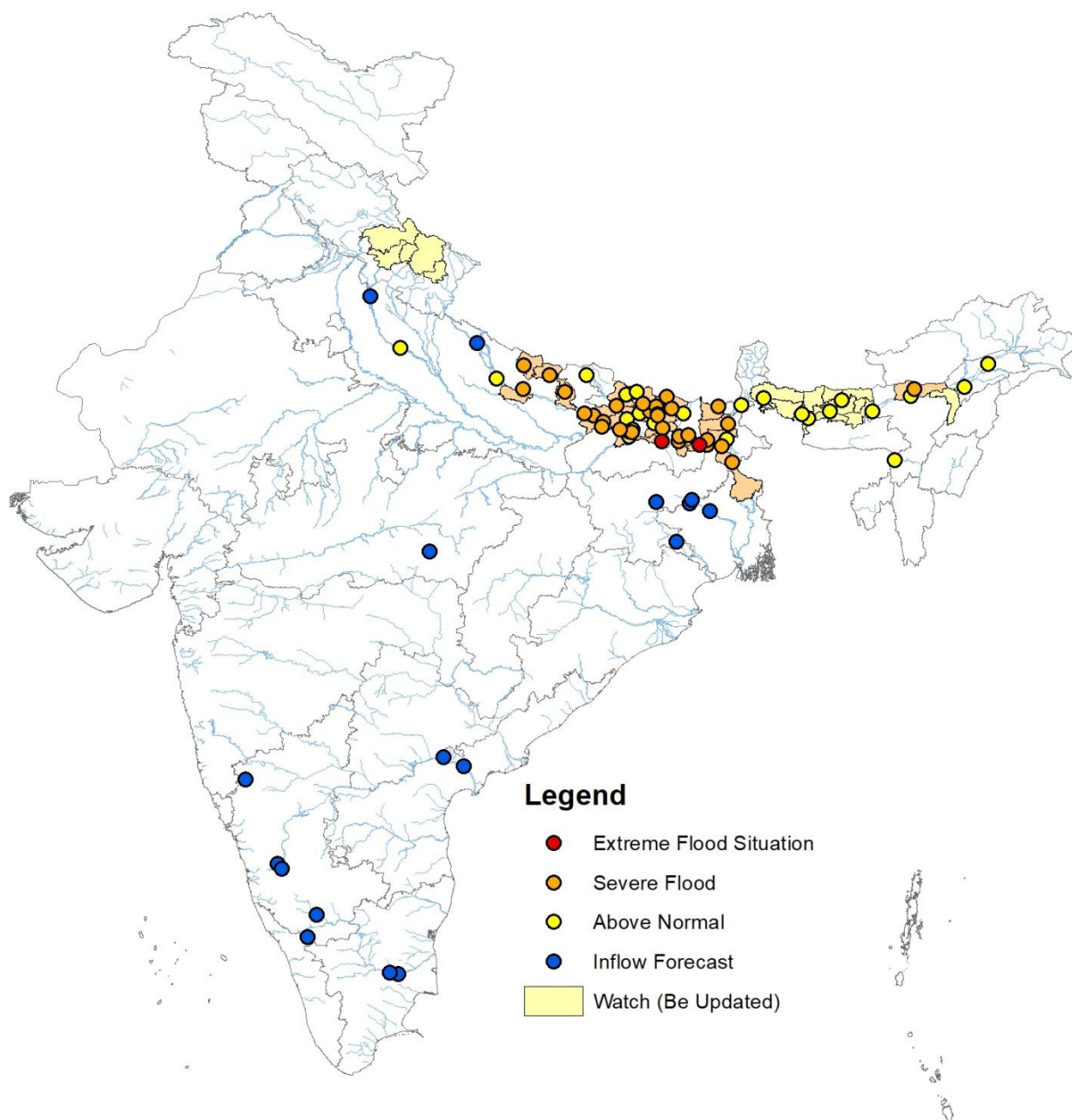
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 18th August, 2021, 2 stations in Bihar are flowing in Extreme Flood Situation, 30 Stations (21 in Bihar, 6 in Uttar Pradesh and 1 each in Assam, Jharkhand & West Bengal) are flowing in Severe Flood Situation and 23 stations (10 in Bihar, 9 in Assam, 3 in Uttar Pradesh and 1 in West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 17 Barrages & Dams (5 in Karnataka, 4 in Jharkhand, 2 each in Andhra Pradesh, Tamilnadu & Uttar Pradesh and 1 each in Madhya Pradesh & West Bengal).

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)	2
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	30
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)		55
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)		17

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfcrwcdfb-18.08.2021-2_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Ganga basin- Uttarakhand, Uttar Pradesh, Bihar, Jharkhand & West Bengal

Due to forecasted heavy to very heavy rainfall over Uttarakhand from 19th - 20th August 2020, there is likelihood of rise in water levels in rivers such as Bhagirathi, Alaknanda, Mandakini, Ganga, Ramganga, Sharda, Sarju etc. There is likelihood of flash floods in some of the hill districts in association with cloud burst. Necessary precautions have to be taken for possible landslides and blockages of river flows due to landslides in high ranges of the state.

Water level of River Ganga has fallen below warning level upto Buxar (Bihar). Downstream stations from Balia (UP) to Patna Gandhighat are flowing above Danger level but with falling trend. At Hathidah in Patna, it is flowing in extreme flood situation with falling trend. At **Munger**, it is flowing above danger level with falling trend. At **Bhagalpur**, it is flowing above HFL with falling trend. Stations downstream of Bhagalpur viz. Kahalgaon (Bhagalpur), it is flowing above danger level with falling trend, and at Sahibganj in Jharkhand, Maldah/Murshidabad in West Bengal on main Ganga is flowing in severe flood situation with very slow rising trend. Alert may be kept in districts **Balia (U.P), Patna, Munger, Bhagalpur (Bihar), Sahibganj (Jharkhand) and Malda & Murshirabad (West Bengal)**. Propagating peak inflow will further increase the water level of main Ganga stem in Jharkhand and West Bengal in **next 2 days** with flood wave considerably attenuating.

River Ghaghra in **Ayodhya** is flowing above danger level with falling trend and at **Ballia (Uttar Pradesh)** and **Siwan (Bihar)** districts it is flowing in severe flood situation with rising trend. River Rapti is flowing in severe flood situations in **Balrampur, Siddharth Nagar & Gorakhpur districts (U.P)** with rising trend.

Currently River Kosi in **Khagaria & Katihar** districts, River Sone in **Patna**, River **Bagmati** in **Muzzafarpur & Darbhanga** districts, River **Gandak** in **Gopalganj** district, River Parman in **Araria**, River **Adhwara** in **Darbhangha** District, Rivers **Kamla & Kamlabalan** in **Madhubani** district, River **Burhi Gandak** in **Samastipur & Khagaria** districts, River **Mahananda** in **Purnia & Katihar** districts in Bihar are flowing in severe flood situations. Flood situations may exist in the lower reaches of these rivers in the coming days.

2.2.2 Brahmaputra and its tributaries – Assam, West Bengal, Sikkim, Arunachal Pradesh & Meghalaya

IMD has predicted very heavy rainfall in the catchment of Brahmaputra and its tributaries from 18th-19th August, hence, alert may be kept in North West Bengal, Assam, Sikkim, Arunachal Pradesh & Meghalaya. Alert to be kept in the basins of Champabati, Aie, Gurang, Manas, Teesta, Raidak, Jaldhaka, Rangpochu, Rangit, Torsa, Beki, Pagladiya, Puthimari, Subansiri, Disang, Siang, Simsang, Digaru, Myntdu rivers and in all other tributaries of Brahmaputra.

2.2.3 Krishna basin –Andhra Pradesh, Karnataka

Most of the dams in Upper Krishna Basin are having very high storages. Hidkal Dam, Almatti Dam and Tungabhadra Dam are filled to their full capacity. Narayanpur and Bhadra Dams are 98% filled up. Malaprabha Dam on River Malaprabha is filled to 93% of its full capacity. Dams Koyana, Warna & Veer are also having high storage. Round the clock watch has to be maintained for proper reservoir operation.

It is advised that close watch has to be maintained for increased inflows likely during the next 2-3 days. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure.

3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 18th August, 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 below:

Storage above 85%	
Storage above 60%	

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	Srisalam	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal (Telangana), Kurnool(AP)/Nalgonda(Telangana), Guntoor (AP)					
2	Nagarjuna Sagar	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Telangana), Guntoor (AP)					
3	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
4	Sri Pada Yellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/ JaishankarBhupalpally					
5	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Telangana	Nanded (Mah)/Nirmal (Telangana)					
6	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad, Nirmal/ Mancherial					
7	Singur	Manjira/Manjira/Godavari	Telangana	Bidar(Kar)/Sangareddy(Telangana)					
9	Panchet	Damodar/Damodar East/ Ganga	Jharkhand	Dhanbad, Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
10	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad, Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
11	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)					
12	Harangi	Cauvery/Upper Cauvery/Cauvery	Karnataka	Kodagu/Mandya					
13	Karanja	Karanja/Manjira/Godavari	Karnataka	Bidar (Kar), Vikarabad(Telangana)/Bidar(Kar)					
14	Almatti	Krishna/Upper Krishna/Krishna	Karnataka	Kolhapur(Mah)/ Bagalkote(Kar)					
15	Narayanpur	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot, Vijayapura/ Raichur, Yaadgir					
16	KRS	Cauvery/Middle Cauvery/Cauvery	Karnataka	Mandya, Mysore					
17	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Karnataka	Gadag/Bellary, Koppal, Raichur					
18	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Karnataka	Hassan, Kodagu/Mandya, Mysore					
19	Bhadra	Bhadra/Upper Tungabhadra/Krishna	Karnataka	Chikmagalur/Shimoga					
20	Hidkal	Ghataprabha/Ghataprabha/Krishna	Karnataka	Kolhapur (Mah)/ Belgaum (Kar)					
21	Malaprabha	Malaprabha/Malaprabha/Krishna	Karnataka	Belgaum					
22	Warana	Warana/Upper Krishna/Krishna	Maharashtra	Kolhapur, Sangli					
23	Koyna	Koyna/ Upper Krishna/Krishna	Maharashtra	Satara/Kolhapur, Sangli					
24	Yeldari	Purna/Purna/Godavari	Maharashtra	Parbhani, Hingoli					
25	Totladoh	Pench/Wainganga/Godavari	Maharashtra	Chindwara(MP)/Nagpur(Mah)					
26	Isapur	Penganga/Penganga/Godavari	Maharashtra	Hingoli, Yavatmal/Yavatmal,Nanded					
27	Veer	Nira/Upper Bhima/Krishna	Maharashtra	Pune, Satara					
28	Ujjani	Bhima/Upper Bhima/Krishna	Maharashtra	Pune, Solapur					
29	Mula	Mula/Upper Godavari/Godavari	Maharashtra	Ahmadnagar					
30	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
31	Panchana	Gambhiri/Upper Chambal/Ganga	Rajasthan	Karauli					
32	Gudha	Mejchambal/UpperChambal/Ganga	Rajasthan	Bhilwara/Bundi					
33	Kalisindh	Kalisingh/Upper Chambal/Ganga	Rajasthan	Jhalawar, Kota					
34	SomKamlaAmba	Som/Mahi B/Mahi	Rajasthan	Udaipur/ Dungarpur					
35	Mahi Bajaj Sagar	Mahi/Mahi B/Mahi	Rajasthan	Ratlam(MP)/Banswara, Pratapgarh,Dungapur (Raj)					

36	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	TN	Theni/Madurai					
37	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
38	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Kerala	Idduki/Ernakulam					
39	Edamalyar	Periyar/Upper Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	Ernakulam					
40	Bargi	Narmada/UpperNarmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
41	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
42	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
43	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					

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.