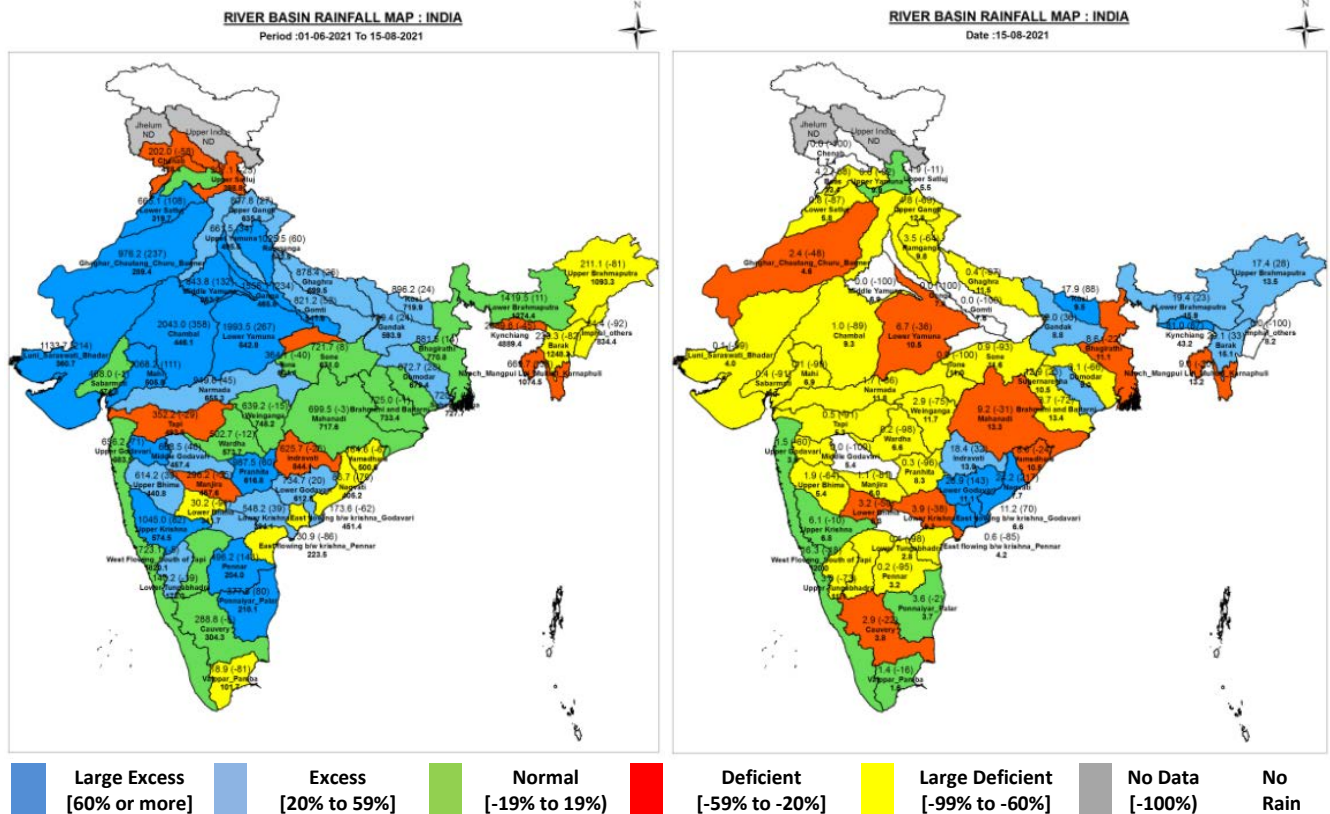




Central Water Commission
Daily Flood Situation Report cum Advisories
15-08-2021

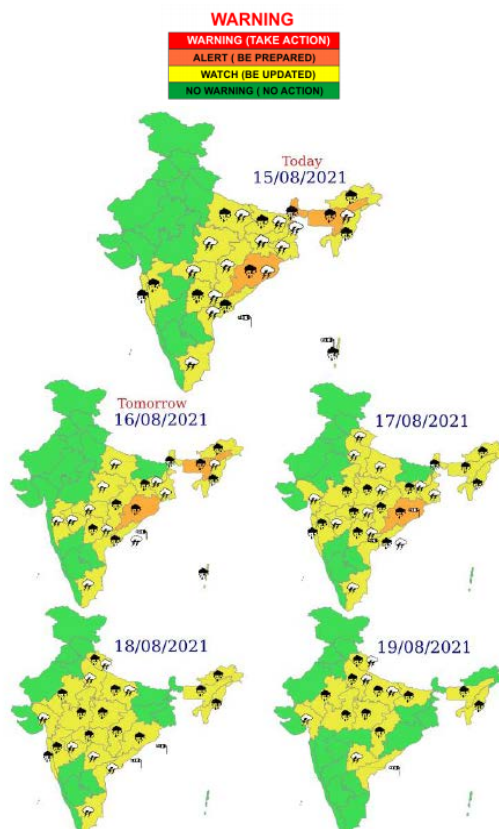
1.0 Rainfall Situation

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 15th August 2021 (Midday) by IMD



- Heavy to very Heavy/ Extremely Heavy Rainfall over Sub-Himalayan West Bengal on 15th; over Assam & Meghalaya on 15th & 16th August and over Odisha during 15th – 17th August, 2021.

2.0 Flood Situation and Advisories

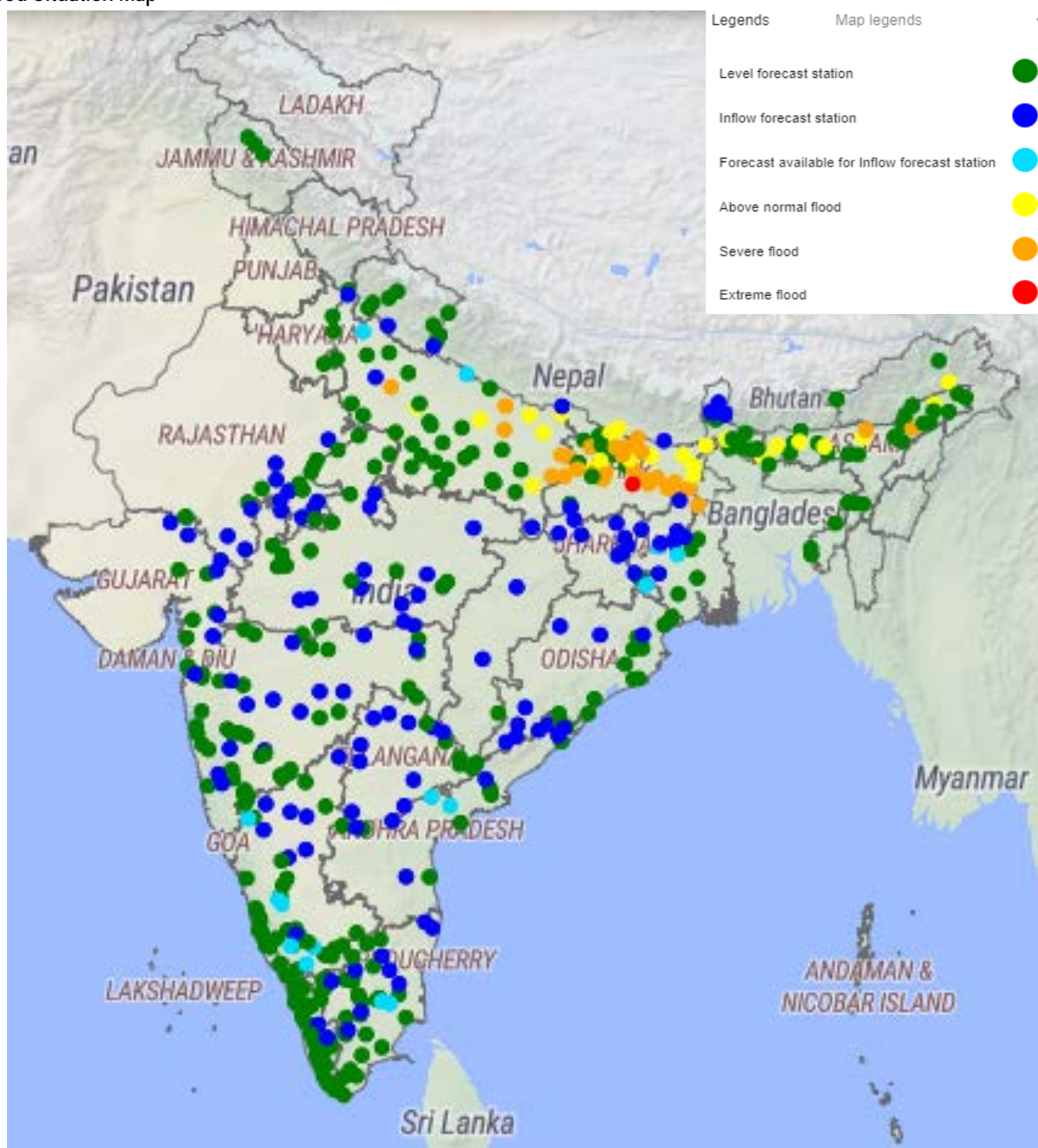
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 15th August, 2021, 1 station in Bihar is flowing in Extreme Flood Situation, 31 Stations (21 in Bihar, 6 in Uttar Pradesh, 2 in Assam and 1 each in Jharkhand & West Bengal) are flowing in Severe Flood Situation and 25 stations (10 in Bihar, 6 in Uttar Pradesh, 7 in Assam and 1 each in Arunachal Pradesh & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 14 Barrages & Dams (5 in Karnataka, 2 each in Uttar Pradesh, Jharkhand, Tamil Nadu & Andhra Pradesh and 1 in West Bengal).

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)	1
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	31
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	25
Total number of sites above Warning Level (A+B+C)		57
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)		14

Details are given at link: http://cwc.gov.in/sites/default/files/cfrcwcdfb-15.08.2021-3_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

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

Due to combined effect of river runoff from Yamuna and northern tributaries of Ganga, main **Ganga** is flowing in severe flood situations from districts **Ghazipur (U.P)** to **Murshirabad (West Bengal)**. From Ghazipur to Ballia, Ganga River is in falling to steady state, whereas from Patna and downstream, it is flowing with rising trend. Alert may be kept in districts **Varanasi, Ghazipur & Balia (U.P), Buxar, 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 Bihar, Jharkhand and West Bengal in next 2 to 3 days.

Currently, Ganga at CWC site Hathidah in Patna district is flowing above HFL. Present water level (04:00 PM) observed at site is 43.45 m and expected water level at 08:00 AM of 16.08.2021 is 43.49 m. Rate of water level rise has decreased, hence expected to steady in one or 2 days. At Bhagalpur site of CWC, water level of Ganga is expected to cross HFL by 16.08.2021 (04:00 PM). Expected level at site by tomorrow 04:00 PM is 34.76 m.

Middle reaches of Ganga river in districts such as **Badaun & Farrukhabad (Uttar Pradesh)** are in above normal flood situations. River **Ghaghra** in **Barabanki, Ayodhya & Ballia (Uttar Pradesh)** and **Siwan & Saran (Bihar)** districts are flowing in above normal to severe flood situations with rising trend due to past 2 days rainfall in the catchment. River Rapti is flowing in severe to above normal flood situation in **Balrampur, Siddharth Nagar & Gorakhpur districts (U.P)**. River Sone & Punpun are flowing in severe flood situation in Patna.

Currently the flood originated in tributaries of Yamuna last week is passing through Ganga and it may take another 3 to 4 days to pass through completely; in such situation further runoff created due to intense rainfall in the catchments of north tributaries of Ganga may not stream into Ganga easily. The flooding situation in districts such as **Ballia (U.P), Saran, Bhagalpur, Khagaria, Vaishali, Katihar (Bihar)** may get accentuated.

Currently River **Kosi** in **Supaul, Khagaria & Katihar** districts, River **Bagmati** in **Sitamarhi, Muzzafarpur & Darbhanga** districts, River **Gandak** in **Gopalganj, Muzaffarpur & Vaishali** districts, River **Adhwara** in **Darbhanga** District, Rivers **Kamla & Kamlabalan** in **Madhubani** district, River **Burhi Gandak** in **Samastipur & Khagaria** districts, River **Parman** in **Araria**, River **Mahananda** in **Purnia & Katihar** districts are flowing in above normal to severe flood situations. Flow in Gandak has increased with rising trend. Flow in Bagmati has increased in its upper reaches and that of Kosi has increased in middle and lower reaches. Hence flood situations may exist in the lower reaches of these rivers in the coming days.

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

IMD has predicted very heavy rains in the catchment of Brahmaputra and its tributaries for next 3 to 4 days, hence, alert may be kept in North West Bengal, Assam, Sikkim, Arunachal Pradesh & Meghalaya, mainly in districts **Kokrajhar, Barpeta, Baksa, Nalbari, Karimganj (Assam)** and **South- West Khasi hills, East Khasi hills (Meghalaya)**, whole **Sikkim state**. 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.

Currently, due to past 2 to 3 days rainfall, rivers in NE-India of Brahmaputra basin are in rising trend. Jia-Bharali in **Sonitpur** district, & Brahmaputra in **Jorhat** are flowing in severe flood situation with rising trend. River **Beki** in **Barpeta**, **Gurang** in **Kohrajhar**, river **Teesta** in **Jalpaiguri**, river **Siang** in **East Siang (Arunachal Pradesh)**, river **Puthimari** in **Kamrup** & river **Brahmaputra** in **Dibrugarh** districts are flowing in above normal flood situation with rising trend.

Alert may be kept in Barak and others for next 2 days.

3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 15th 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	NagarjunaSagar	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Telangana), Guntoor (AP)					
3	Pulichintala	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Tel)/Guntoor, Krishna(AP)					
4	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
5	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/ JaishankarBhupalpally					
6	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Telangana	Nanded (Mah)/Nirmal (Telangana)					
7	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad, Nirmal/ Mancherial					
8	PD Jurala	Krishna/ Middle Krishna/Krishna	Telangana	Raichur(Kar)/Kurnool(Andhra Pradesh),JogulambaGadwal(Telangana)					
9	Singur	Manjira/Manjira/Godavari	Telangana	Bidar(Kar)/Sangareddy(Telangana)					
10	Panchet	Damodar/Damodar East/ Ganga	Jharkhand	Dhanbad, Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
11	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad, Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
12	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)					
13	Harangi	Cauvery/Upper Cauvery/Cauvery	Karnataka	Kodagu/Mandya					
14	Karanja	Karanja/Manjira/Godavari	Karnataka	Bidar (Kar), Vikarabad(Telangana)/Bidar(Kar)					
15	Almatti	Krishna/Upper Krishna/Krishna	Karnataka	Kolhapur(Mah)/ Bagalkote(Kar)					
16	Narayanpur	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot, Vijayapura/ Raichur, Yadgir					
17	KRS	Cauvery/Middle Cauvery/Cauvery	Karnataka	Mandya, Mysore					
18	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Karnataka	Gadag/Bellary, Koppal, Raichur					
19	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Karnataka	Hassan, Kodagu/Mandya, Mysore					
20	Bhadra	Bhadra/Upper Tungabhadra/Krishna	Karnataka	Chikmagalur/Shimoga					
21	Hidkal	Ghataprabha/Ghataprabha/Krishna	Karnataka	Kolhapur (Mah)/ Belgaum (Kar)					
22	Malaprabha	Malaprabha/Malaprabha/Krishna	Karnataka	Belgaum					
23	Warana	Warana/Upper Krishna/Krishna	Maharashtra	Kolhapur, Sangli					
24	Koyna	Koyna/ Upper Krishna/Krishna	Maharashtra	Satara/Kolhapur, Sangli					
25	Yeldari	Purna/Purna/Godavari	Maharashtra	Parbhani, Hingoli					
26	Totladoh	Pench/Wainganga/Godavari	Maharashtra	Chindwara(MP)/Nagpur(Mah)					
27	Isapur	Penganga/Penganga/Godavari	Maharashtra	Hingoli, Yavatmal/Yavatmal,Nanded					
28	Veer	Nira/Upper Bhima/Krishna	Maharashtra	Pune, Satara					
29	Ujjani	Bhima/Upper Bhima/Krishna	Maharashtra	Pune, Solapur					
30	Mula	Mula/Upper Godavari/Godavari	Maharashtra	Ahmadnagar					
31	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
32	Panchana	Gambhiri/Upper Chambal/Ganga	Rajasthan	Karauli					
33	Gudha	Mejchambal/UpperChambal/Ganga	Rajasthan	Bhilwara/Bundi					

35	Kalisindh	Kalisingh/Upper Chambal/Ganga	Rajasthan	Jhalawar, Kota					
36	SomKamlaAmba	Som/Mahi B/Mahi	Rajasthan	Udaipur/ Dungarpur					
	Mahi Bajaj Sagar	Mahi/Mahi B/Mahi	Rajasthan	Ratlam(MP)/Banswara, Pratapgarh,Dungapur (Raj)					
37	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	TN	Theni/Madurai					
38	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
39	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Kerala	Idduki/Ernakulam					
40	Edamalyar	Periyar/Upper Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	Ernakulam					
41	Bargi	Narmada/UpperNarmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
42	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
43	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
44	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.