



Central Water Commission
Daily Flood Situation Report cum Advisories
21-09-2021

1.0 Rainfall Situation

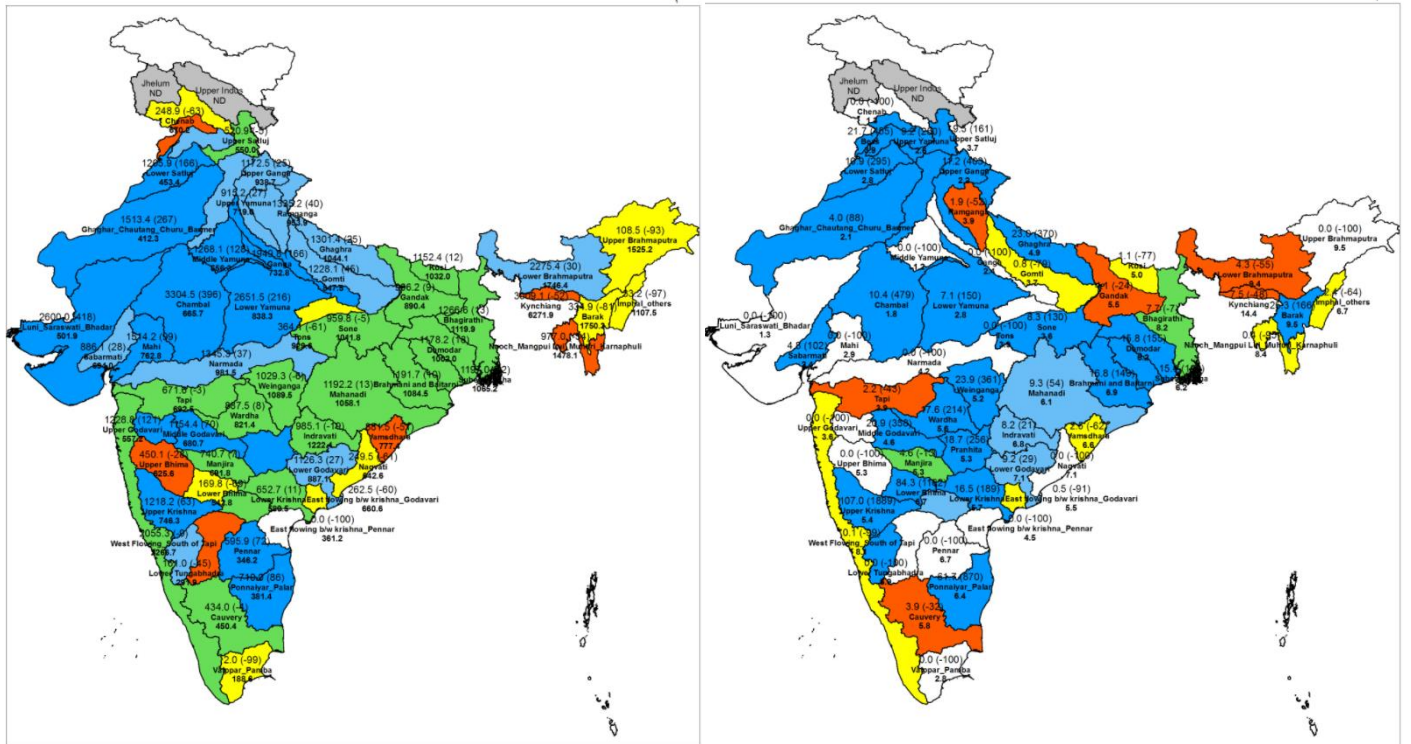
1.1 Basin wise departure from normal of cumulative and daily rainfall

RIVER BASIN RAINFALL MAP : INDIA

Period :01-06-2021 To 21-09-2021

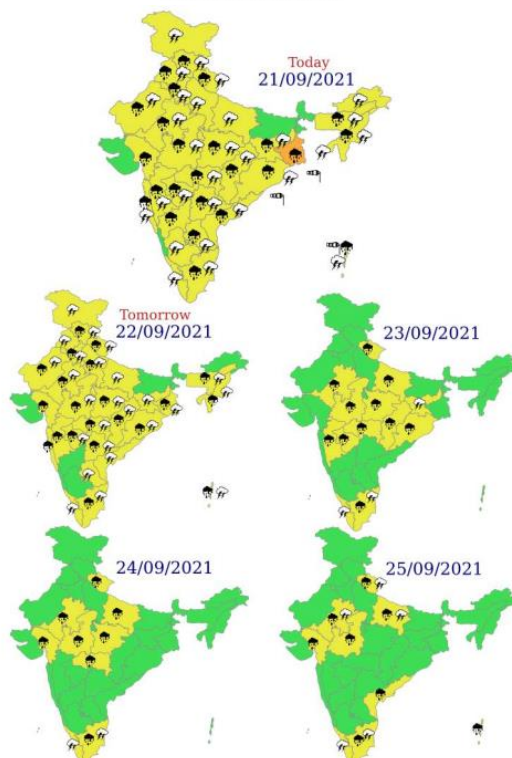
RIVER BASIN RAINFALL MAP : INDIA

Date :21-09-2021



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 21st September, 2021 (Midday) by IMD



- Very Heavy Rainfall over Gangetic West Bengal, Odisha, East Madhya Pradesh and Gujarat Region on 21st September, 2021.

2.0 Flood Situation and Advisories

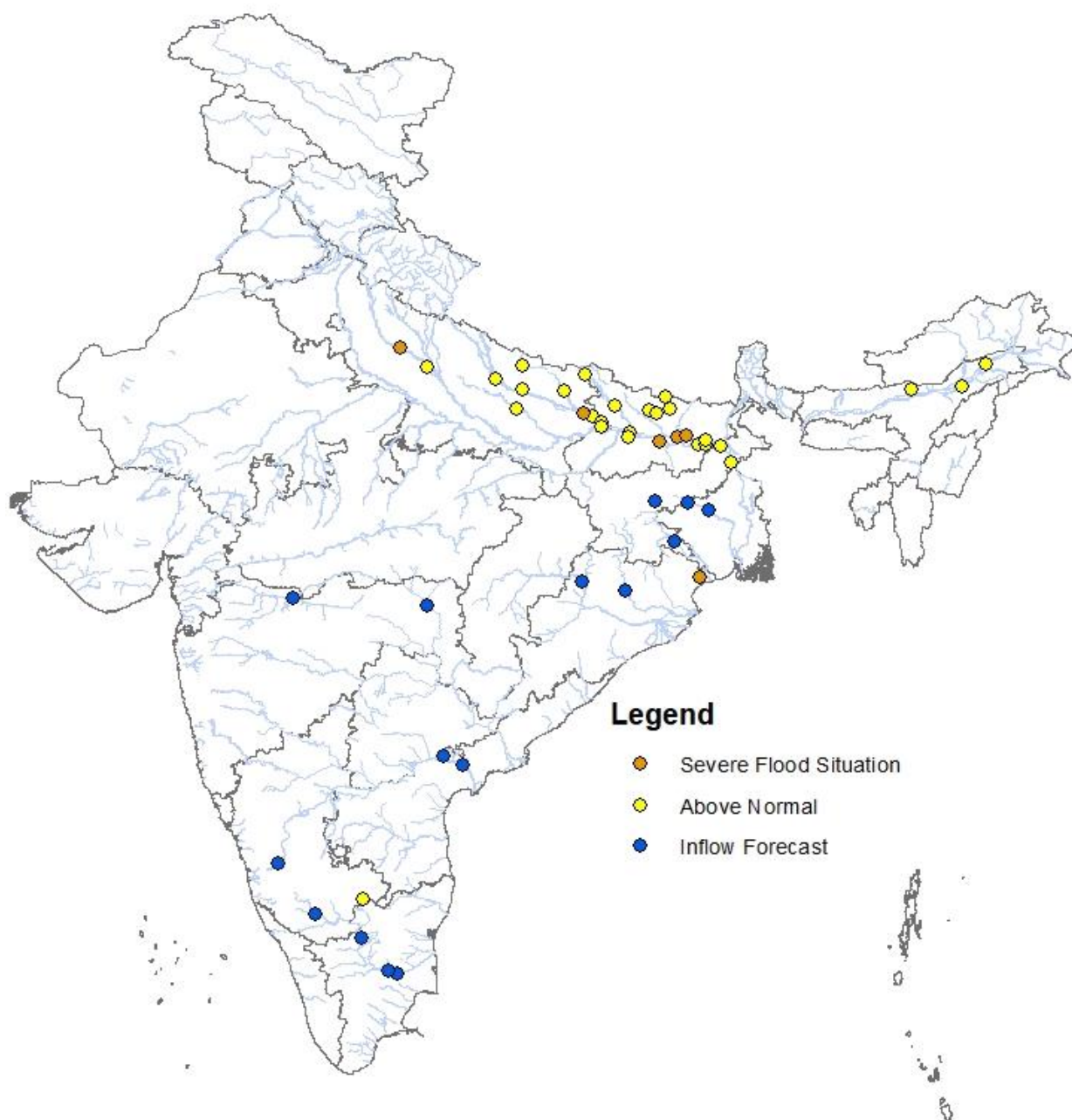
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 21st September, 2021, 6 Stations (3 in Bihar, 2 in Uttar Pradesh and 1 in Odisha) are flowing in Severe Flood Situation and 26 stations (12 in Bihar, 8 in Uttar Pradesh, 3 in Assam, and 1 each in Tamilnadu, Jharkhand & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 15 Barrages & Dams (3 each in Jharkhand & Tamilnadu, 2 each in Karnataka, Andhra Pradesh, Maharashtra & Odisha and 1 in 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)	0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	6
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	26
Total number of sites above Warning Level (A+B+C)		32
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)		15

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfcrwcdfb-21-09.2021-2_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Ganga and its tributaries – Uttarakhand, Uttar Pradesh, Bihar, Jharkhand & West Bengal

River Ganga is flowing in severe to above normal flood situation with falling trend in Budaun & Farrukabad districts of Uttar Pradesh. Towards lower reaches, Ganga is flowing in above normal to severe flood situation in Patna (Bihar) with falling trend. In Sahebganj (Jharkhand) and Murshirabad (West Bengal) Ganga is flowing in above normal flood situation with rising trend. The said rise in lower reaches of Ganga is mainly due to runoff contribution from Ghagara from northern side.

Due to rainfall happened in Nepal, currently, river Gandak is in above normal flood situation in Kushinagar district (Uttar Pradesh) with rising trend and river Bagmati is in rising trend in upper and middle reaches till district Muzaffarpur in Bihar. Flooding situation in rest of the northern tributaries of Ganga in Bihar such as Ghagra, Burhi Gandak, Adhwara, Kamalabalan and Kosi have receded from severe to above normal in most of the districts.

Due to existence of Low pressure area over Gangetic West Bengal, rainfall is expected in almost all districts of Gangetic West Bengal and neighboring Orissa. Hence alert may be kept for rivers Kangsabati, Damodar, Silai, Hugli, Mayurakshi, Hinglow, Subernarekha, Burhabalang, Baitarni and Brahmani and its tributaries.

2.2.2 Mahi – Gujarat

Due to prevalence of upper air cyclonic circulation over East Rajasthan and neighborhood, heavy rainfall is mainly expected in districts **Panchmahal & Chota Udepur**. Rainfall in Panchmahal will contribute runoff in Mahi basin mainly in rivers Panam, Bhadar and main Mahi river and hence inflow into dams Kadana, Panam & Bhadar. Rainfall in Chota Udepur will contribute to runoff in Narmada basin mainly in rivers Orsang and Hiren.

2.2.1 Rivers of Tamil Nadu

Due to past rainfall Ponnaiyar river is flowing in above normal flood situation with slightly rising trend in district **Krishnagiri**.

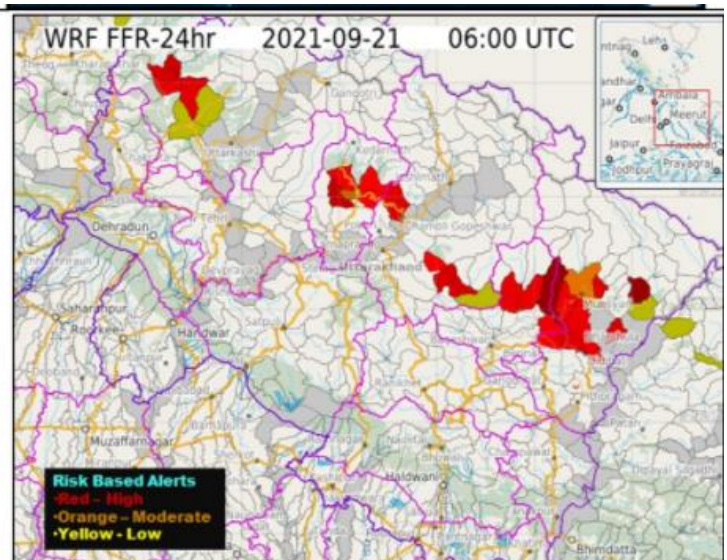
2.2.3 Flash Flood Guidance

IMD has issued warning of moderate risk over few watersheds and neighborhoods of Uttarakhand in next 24 hours.

24 hours Flash Flood Risk Outlook Till 1130 IST of 22.09.2021:

Moderate Risk likely over few watersheds and neighborhoods of **Uttarakhand met subdivisions** in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map **due to expected rainfall occurrence in next 24 hours.**



3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 21st September, 2021

Reservoirs shown in red are having gross storage capacity more than 90% and those in orange are having gross storage greater than 75%. 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 90%	
Storage above 75%	

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	Nagarjuna Sagar	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Tel), Guntoor (AP)					
2	Srisailem	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal(Telangana), Kurnool(AP)/ Nalgonda(Telangana), Guntoor (AP)					
3	Musi	Musi/Lower Krishna/Krishna	Tel	Nalgonda					
4	Sri Pada Yellampally	Godavari/Middle Godavari/Godavari	Tel	Mancherla/ JaishankarBhupalpally					
5	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
6	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancherla					
7	Singur	Manjira/Manjira/Godavari	Tel	Medak					
8	PD Jurala	Krishna/Middle Krishna/Krishna	Tel	Raichur (Kar)/JogalambaGadwal(Telangana)					
9	Panchet	Damodar/Damodar East/ Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
10	Getalsud	Damodar/Damodar West/Ganga & its tributaries	Jhar	Bokaro (Jharkand)					
11	Konar	Konar/Damodar West/Ganga & its tributaries	Jhar	Hazaribagh (Jharkand)					
12	Tilaiya	Barakar/ Barakar West/Ganga & its tributaries	Jhar	Koderma (Jharkand)					
13	Maithon	Barakar/ Barakar East/Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
14	Kabini	Kabini/Kabini/Cauvery	Kar	Wayanad (Kerala)/ Mysuru (Kar)					
15	Harangi	Harangi/Harangi/Cauvery	Kar	Kodagu/Mandya					
16	Karanja	Karanja/Manjira/Godavari	Kar	Bidar (Kar), Vikarabad(Tel)/Bidar(Kar)					
17	Almatti	Krishna/Upper Krishna/Krishna	Kar	Kolhapur(Mah)/ Bagalkote(Kar)					
18	Narayanpur	Krishna/Upper Krishna/Krishna	Kar	Bagalkot, Vijayapura/ Raichur, Yaadgir					
19	KRS	Cauvery/Middle Cauvery/Cauvery	Kar	Mandya, Mysore					
20	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Kar	Gadag/Bellary, Koppal, Raichur					
21	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Kar	Hassan, Kodagu/Mandya, Mysore					
22	Bhadra	Bhadra/UpperTungabhadra/Krishna	Kar	Chikmagalur/Shimoga					
23	Hidkal	Ghataprabha/Ghataprabha/Krishna	Kar	Kolhapur (Mah)/ Belgaum (Kar)					
24	Malaprabha	Malaprabha/Malaprabha/Krishna	Kar	Belgaum					
25	Warana	Warana/Upper Krishna/Krishna	Mah	Kolhapur, Sangli					
26	Koyna	Koyna/ Upper Krishna/Krishna	Mah	Satara/Kolhapur, Sangli					
27	Yeldari	Purna/Purna/Godavari	Mah	Parbhani, Hingoli					
28	Isapur	Penganga/Penganga/Godavari	Mah	Hingoli, Yavatmal/Yavatmal,Nanded					
29	Manjlegaon	Sindhphana/Middle Godavari/Godavari	Mah	Bid/Parbhani					
30	Upper Wardha Project	Wardha/Wardha/Godavari	Mah	Wardha, Amravati					
31	Veer Dam	Nira/Upper Bhima/Krishna	Mah	Pune, Satara					
32	Ujjani	Bhima/Upper Bhima/Krishna	Mah	Pune, Solapur					
33	Mula	Mula/Upper Godavari/Godavari	Mah	Ahmadnagar					
34	Totladoh	Pench/Wainganga/Godavari	Mah	Chindwara(MP)/Nagpur(Mah)					
35	Parwati	Parbati/Kalisindh/Upper Chambal	Raj	Baran (Raj)/Baran (Raj), Kota (Raj), Sheopur (MP)					

36	Rana Pratap Sagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
37	Panchana	Gambhiri/Upper Chambal/Ganga	Raj	Karauli					
38	Gudha	Mejchambal/UpperChambal/Ganga	Raj	Bhilwara/Bundi					
39	Kalisindh	Kalisindh/Upper Chambal/Ganga	Raj	Jhalawar, Kota					
40	Mahi Bajajsagar	Mahi/Mahi B/Mahi	Raj	Ratlam(MP)/Banswara, Pratapgarh,Dungapur (Raj)					
41	Som Kamla Amba	Mahi/Mahi B/Mahi	Raj	Udaipur/Dungarpur					
42	Gambhiri	Gambhiri/Upper Chambal/Ganga	Raj	Chittorgarh					
43	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
44	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
45	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
46	Barna	Barna/Middle Narmada/Narmada	MP	Raisen(MP)					
47	Hathnur	Hatnur/Upper Tapi/Tapi	Mah	Burhanpur (MP)/Jalgaon(Mah)					
48	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					
49	Sanjay Sarovar	Wainganga/Wainganga/Godavari	MP	Seoni					
50	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
51	Rengali	Brahmani River/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Deogarh/Angul, Dhenkanal					
52	Hirakud	Mahanadi River/Upper Mahanadi/Mahanadi	Odisha	JanjgirChampa, Raigarh(Chsgrh), Jharsuguda, Bargarh, Sambalpur(Odisha)/Subarnapur, Baudh, Anugul (Odisha)					
53	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
54	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
55	Madhuban	Damanganga/Damanganga/West Flowing Rivers from Tapi to Tadri	Guj	Valsad (Guj)/Selvasa (UT of DNH)					
56	Edamalayar	Upper Periyar/Periyar/Periyar	Ker	Coimbatore/Ernakulam					
57	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Ker	Idduki/Ernakulam					

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.