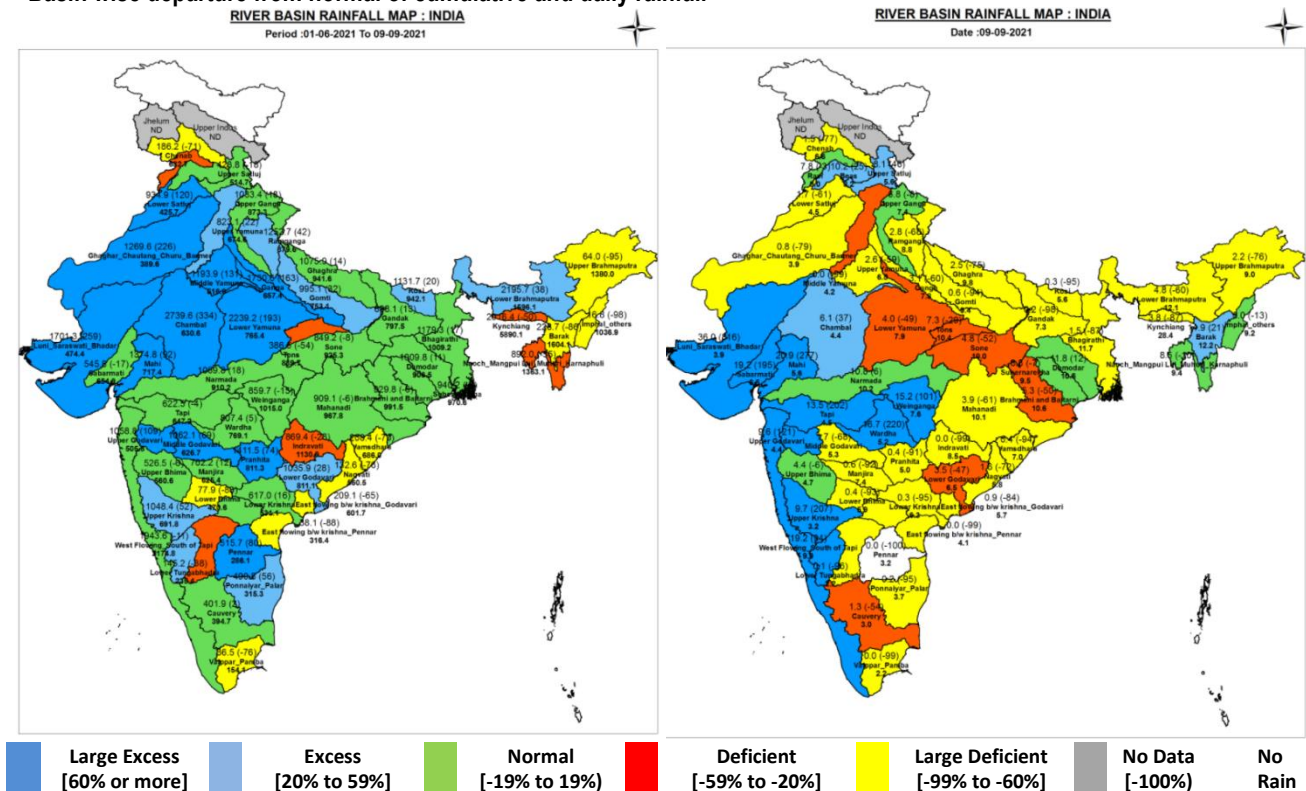




Central Water Commission
Daily Flood Situation Report cum Advisories
09-09-2021

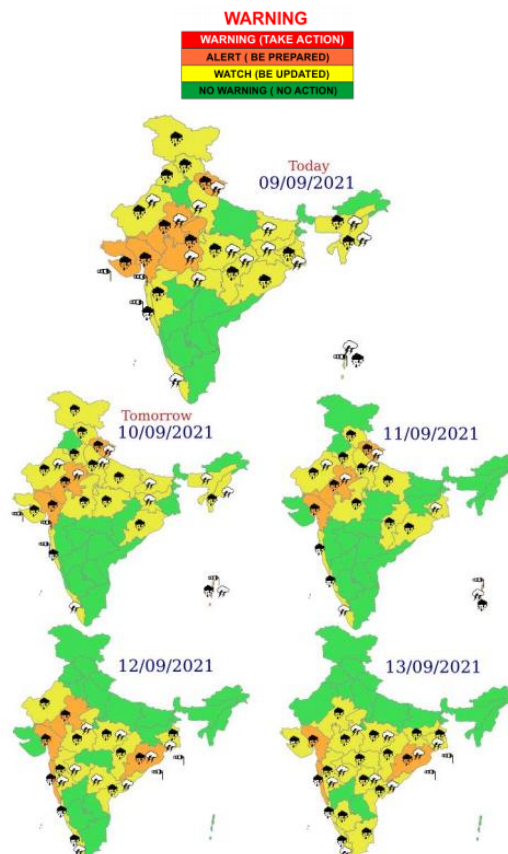
1.0 Rainfall Situation

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 9th September, 2021 (Midday) by IMD



- Very Heavy Rainfall over Uttarakhand during 09th-11th; East Rajasthan during 09th-12th; West Madhya Pradesh on 09th; Odisha on 12th & 13th; Andaman & Nicobar on 10th; Gujarat Region during 09th-13th; Saurashtra & Kutch on 09th; Konkan & Goa on 12th & 13th September, 2021

2.0 Flood Situation and Advisories

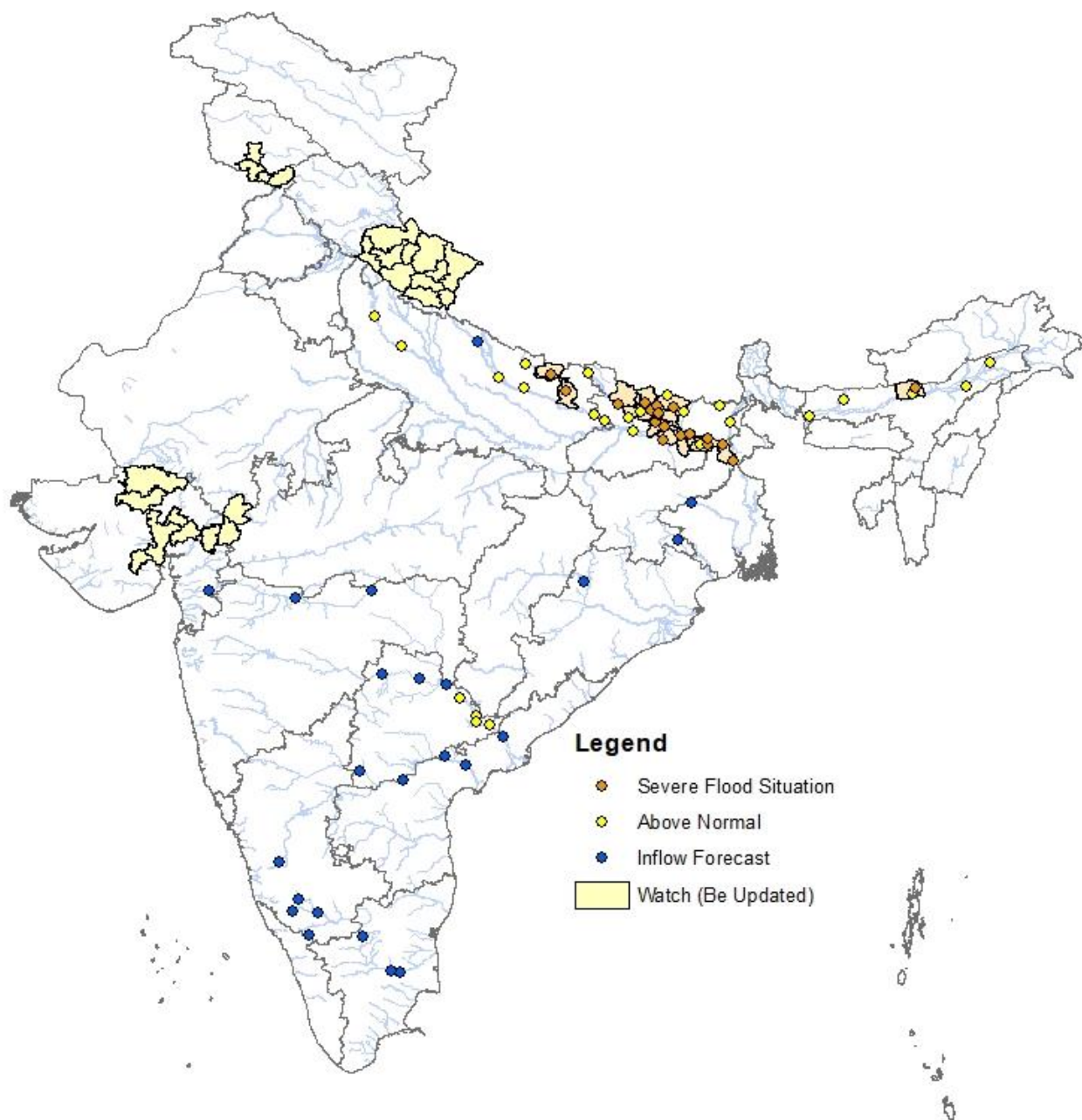
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 9th September, 2021, 20 Stations (14 in Bihar, 3 in Uttar Pradesh and 1 each in Assam, Jharkhand & West Bengal) are flowing in Severe Flood Situation and 25 stations (10 in Bihar, 6 in Uttar Pradesh, 5 in Assam, 3 in Telangana and 1 in Andhra Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 24 Barrages & Dams (5 each in Andhra Pradesh & Karnataka, 4 in Telangana, 3 in Tamilnadu, 2 each in Jharkhand & Maharashtra and 1 each in Tamilnadu, Odisha & Uttar Pradesh).

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))	20
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)		45
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)		24

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfrcwcdfb-09.09.2021-2_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Godavari Basin, Tapi, Damanganaga, Mahi, Sabarmati, Banas, West Flowing Rivers from Tapi to Tadri

2.2.1.1 Maharashtra

Tapi Basin: Under the effect of heavy rainfall happened in past 2 days, heavy inflows of ~2000 cumec are still expected in Hathnur dam till 09.09.2021 midnight. From last 24 hours the river outflow from the Hathnur reservoir is around 2100 cumec. Tapi river in **Buldhana** district is flowing in severe flood situation with decreasing trend. It is expected that Hathnur dam inflow will show gradual decrease as the rainfall has stopped over the region.

Godavari Basin: Flow created from past 2 to 3 days heavy rainfall in Godavari and its tributaries is progressing downstream. Heavy Inflows are expected in Upper Wardha Project (> 903 cumec) till tomorrow (10.09.2021) morning and the inflows are in increasing trend. Wardha river in **Wardha** district is flowing in extreme flood situation. Proper reservoir operation in accordance to standard operating manuals should be done, after informing downstream areas in advance.

Independent rivers originating from Western Ghats: IMD has predicted strengthening of monsoon current due to likelihood of formation of low pressure area and this would create increased rainfall activity along Konkon Coast, hence there is likelihood of water level rise in rivers originating from Ghat regions such as Gad, Kajvi, Khadapar, Madai, Savitri, Kal, Vashisti, Bav, Wagh & Bogeshwari in next 2 days.

2.2.1.2 Telangana

Godavari Basin: Flow created from past 2 to 3 days heavy rainfalls are progressing downstream. The peak of induced flood wave has flowed past Telangana except in **Bhadradi** district. Godavari is flowing in above normal flood situation in **Bhadradi** district with increasing trend. Inflows expected in various major projects in the basin are as follows Sriramsagar Sagar (>8000 cumec), Sripada Yellampally (>15000 cumec), Laxmi Barrage (>28,500 cumec) till tomorrow (10.09.2021) morning. As the storages are high, close watch is to be maintained for any releases from all the dams in the basin as well as for proper gate operation following SOP and after informing the downstream areas in advance.

2.2.1.3 Andra Pradesh

Godavari Basin: The flood wave created due to past 2 to 3 days heavy rainfall is currently passing through Andhra Pradesh. Inflow into Indira Sagar Dam is currently in rising trend and inflow of 26,500 cumec is expected by today (09.09.2021) night. Godavari is flowing in above normal flood situation in **East Godavari** district and alert may be kept in **West Godavari** district.

2.2.1.4 Gujarat, Rajasthan

Mahi Basin: Mahi Bajaj Sagar Dam, Kadana Dam & Panam Dam are expected to receive heavy inflows in forthcoming 2 days. Rainfall and increased flows can lead to rise in water level in Mahi and its tributaries mainly Panam, Som, Anas. Alert may be kept in districts **Banswara, Dungarpur (Rajasthan), Dahod, Panchmahal, Mahi Sagar & Aravalli (Gujarat)**.

Tapi Basin: Inflow from upstream situated Hathnur dam (Jalgaon dist., Maharashtra) will be realized at Ukai dam after 24 hours with added in-between catchment contribution. At present realized inflow at Ukai is nearly 4100 cumec and it is almost expected to be steady till today night. Ukai dam inflow will show gradual decrease there after due to cease of rainfall in the catchment.

Sabarmati & West Banas Basin: Alert may be kept in districts such as **Udaipur, Sirohi (Rajasthan), Sabarkantha, Ahmedabad, Mehsana, Gandhinagar, Kheda, Banaskantha**.

Rivers of Saurashtra: Alert may be kept in districts **Patan, Botad, Rajkot, Porbandar, Morbi & Surendranagar** and in rivers Ghelo, Shetrunji, Kalubhar, Limdino, Bhogavo etc.

2.2.2 Ganga Basin- Uttarakhand, Uttar Pradesh, Bihar, Jharkhand & West Bengal

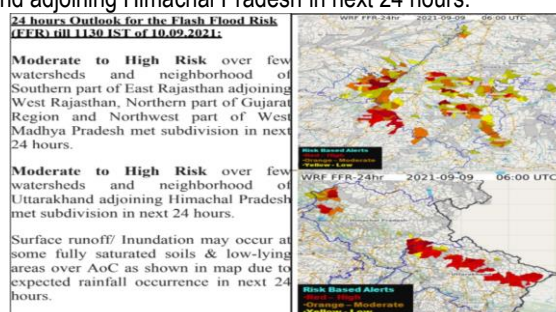
Alert may be kept in **whole Uttarakhand** as heavy rainfall has been predicted for next 2 days. Increased flows are expected in major rivers and its tributaries such as Alaknanda, Sarju, Sarda, Ramganga, Bhagirathi & Mahakali. Northern tributaries of Ganga in Uttar Pradesh & Bihar such as Rapti, Gandak, Burhi Gandak, Bagmati, Adhwar, Kamlabalan, Parman, Kosi & Mahananda continue to flow in Severe to Above Normal Flood Situation with steady/falling trend. In coming days, flooding situation is expected to recede slowly. Main Ganga stem is also flowing in above normal to severe flood situation with falling trend.

2.2.3 Jammu & Kashmir

Alert may be kept in districts **Reasi, Jammu, Samba and Kathua** as there are consistent rains for 2 to 3 days. Water level in rivers Chenab, Tawi, Degh, etc. may rise.

2.3 Flash Flood Guidance

IMD has issued Flash Flood Guidance of moderate to high risk over few watersheds and neighborhoods of southern parts of East Rajasthan adjoining West Rajasthan, Northern part of Gujarat region and Northwest part of West Madhya Pradesh and moderate to High risk over few watersheds and neighborhood of Uttarakhand adjoining Himachal Pradesh in next 24 hours.



3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 9th September, 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 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	Musi	Musi/Lower Krishna/ Krishna	Tel	Nalgonda					
3	Sri Pada Yellampally	Godavari/Middle Godavari/Godavari	Tel	Mancheria/ JaishankarBhupalpally					
4	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
5	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancheria					
6	Singur	Manjira/Manjira/Godavari	Tel	Medak					
7	Panchet	Damodar/Damodar East/ Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
8	Getalsud	Damodar/ Damodar West/Ganga & its tributaries	Jhar	Bokaro (Jharkand)					
9	Konar	Konar/ Damodar West/Ganga & its tributaries	Jhar	Hazaribagh (Jharkand)					
10	Tilaiya	Barakar/ Barakar West/Ganga & its tributaries	Jhar	Koderma (Jharkand)					
11	Maithon	Barakar/ Barakar East/Ganga	Jhar	Dhanbad, Jamtara (Jhar)/ Puruliya, PaschimBardhaman, Bankura (WB)					
12	Kabini	Kabini/Kabini/Cauvery	Kar	Wayanad (Kerala)/ Mysuru (Kar)					
13	Harangi	Harangi/Harangi/Cauvery	Kar	Kodagu/Mandya					
14	Karanja	Karanja/Manjira/Godavari	Kar	Bidar (Kar), Vikarabad(Tel)/Bidar(Kar)					
15	Almatti	Krishna/Upper Krishna/Krishna	Kar	Kolhapur(Mah)/ Bagalkote(Kar)					
16	Narayanpur	Krishna/Upper Krishna/Krishna	Kar	Bagalkot, Vijayapura/ Raichur, Yaadgir					
17	KRS	Cauvery/Middle Cauvery/Cauvery	Kar	Mandya, Mysore					
18	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Kar	Gadag/Bellary, Koppal, Raichur					
19	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Kar	Hassan, Kodagu/Mandya, Mysore					
20	Bhadra	Bhadra/UpperTungabhadra/Krishna	Kar	Chikmagaluru/Shimoga					
21	Hidkal	Ghataprabha/Ghataprabha/Krishna	Kar	Kolhapur (Mah)/ Belgaum (Kar)					
22	Malaprabha	Malaprabha/Malaprabha/Krishna	Kar	Belgaum					
23	Warana	Warana/Upper Krishna/Krishna	Mah	Kolhapur, Sangli					
24	Koyna	Koyna/ Upper Krishna/Krishna	Mah	Satara/Kolhapur, Sangli					
25	Yeldari	Purna/Purna/Godavari	Mah	Parbhani, Hingoli					
26	Isapur	Penganga/Penganga/Godavari	Mah	Hingoli, Yavatmal/Yavatmal,Nanded					
27	Manjlegaon	Sindhphana/Middle Godavari/Godavari	Mah	Bid/Parbhani					
28	Parwati	Parbati/Kalisindh/Upper Chambal	Raj	Baran (Raj)/Baran (Raj), Kota (Raj), Sheopur (MP)					
29	Rana Pratap Sagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
30	Panchana	Gambhiri/Upper Chambal/Ganga	Raj	Karauli					
31	Gudha	Mejchambal/UpperChambal/Ganga	Raj	Bhilwara/Bundi					
32	Kalisindh	Kalisindh/Upper Chambal/Ganga	Raj	Jhalawar, Kota					
33	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
34	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
35	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
36	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					

37	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
38	Rengali	Brahmani River/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Deogarh/Angul, Dhenkanal					
39	Madhuban	Damanganga/Damanganga/West Flowing Rivers from Tapi to Tadri	Guj	Valsad (Guj)/Selvasa (UT of DNH)					
40	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
41	Srisaillam	Krishna/Lower Krishna/Krishna	AP	Jogulamba Gadwal(Telangana), Kurnool(AP)/ Nalgonda(Telangana), Guntoor (AP)					
42	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
43	PD Jurala	Krishna/ Middle Krishna/Krishna	Tel	Raichur(Kar)/Kurnool(Andhra Pradesh),JogulambaGadwal(Tel)					

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.