



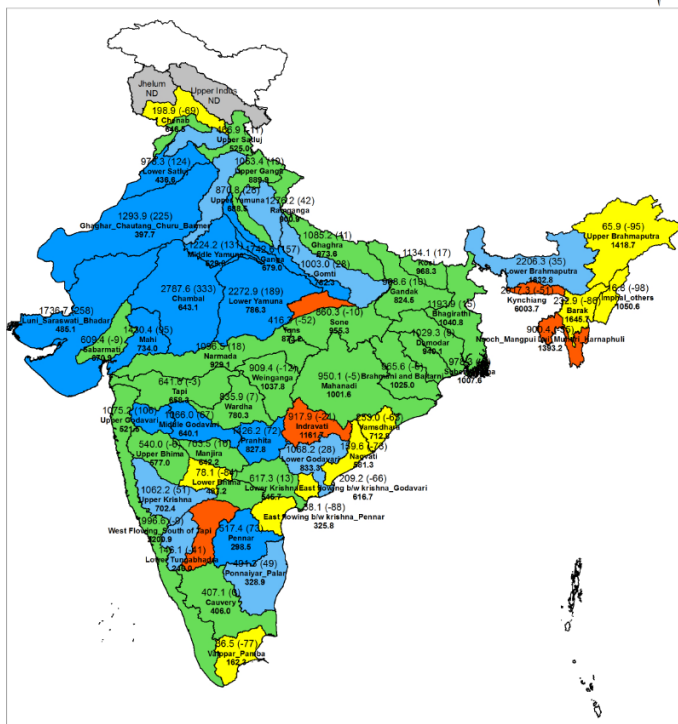
Central Water Commission
Daily Flood Situation Report cum Advisories
12-09-2021

1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall

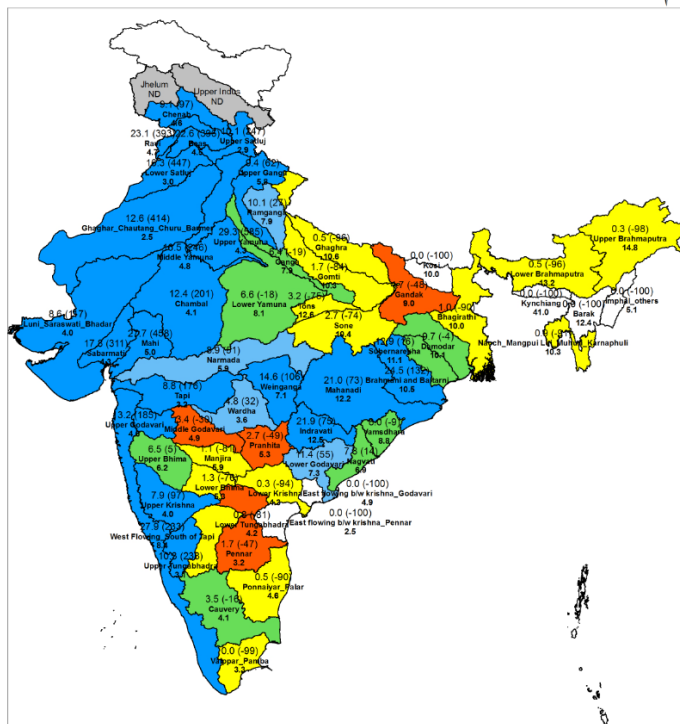
RIVER BASIN RAINFALL MAP : INDIA

Period : 01-06-2021 To 12-09-2021



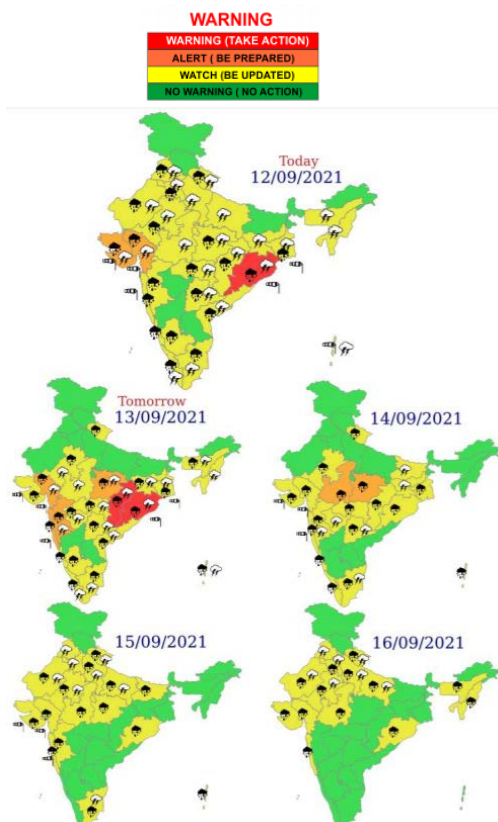
RIVER BASIN RAINFALL MAP : INDIA

Date : 12-09-2021



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 12th September, 2021 (Midday) by IMD



- Very Heavy/Extremely heavy Rainfall over north Konkan, Madhya Maharashtra and Gujarat State during 12th-14th; East Rajasthan on 15th & 16th; Madhya Pradesh during 14th- 15th; Chhattisgarh & Odisha on 12th & 13th 2021.

2.0 Flood Situation and Advisories

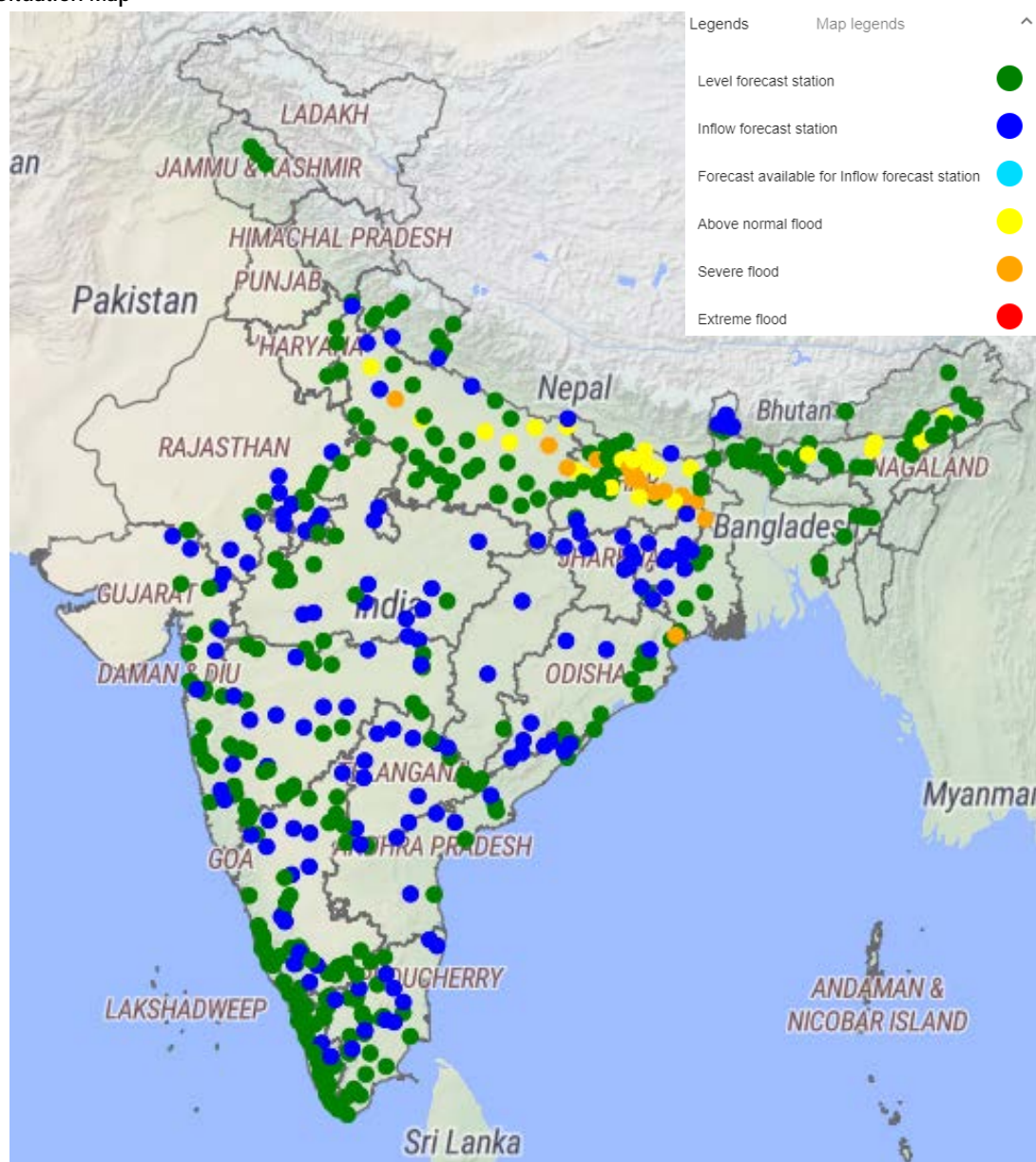
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 12th September, 2021, 16 Stations (10 in Bihar, 3 in Uttar Pradesh and 1 each in Odisha, Jharkhand & West Bengal) are flowing in Severe Flood Situation and 23 stations (11 in Bihar, 6 each in Uttar Pradesh & Assam) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 26 Barrages & Dams (10 in Karnataka, 3 each in Telangana, Andhra Pradesh & Tamilnadu, 2 in Jharkhand, 1 each in Uttar Pradesh, Maharashtra, Odisha, Rajasthan & 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)	0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	16
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)		39
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)		26

Details are given at link:http://cwc.gov.in/sites/default/files/cwcdfb-12.09.2021_6.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Brahmani, Baitarni, Mahanadi Basins

2.2.1.1 Odisha

Due to presence of well-marked low pressure area over Bay of Bengal and its subsequent intensification to depression, rivers such as Brahmani & Baitarni and Mahanadi are expected to get good amount of runoff. **Brahmani** river and its tributaries water levels are expected to rise in districts such as **Angul, Deogarh, Sundargarh, Kendraparha, Dhenkanal & Jajpur**. Water levels of river **Baitarni** is expected to rise in districts **Kendujhar & Bhadrak**. Water levels of river **Mahanadi** and its tributaries are expected to rise in districts **Cuttack, Khordha, Puri, Jagatsinghpur, Jharsuguda & Bolangir**. Flood Situation is expected in Odisha since IMD has predicted extremely heavy falls. Rengali on Brahmani river and Hirakud dam on Mahanadi river are having high storages. Releases from dams may be done as per SOP after informing downstream districts. Currently, river Jalka of Subarnarekha basin in Baleswar district is flowing in severe flood situation with decreasing trend.

2.2.1.2 Chhattisgarh

Water levels of river Mahanadi and its tributaries are expected to rise in districts **Bilaspur, Kabirdham, Janjgir-Champa, Bemetara, Raipur & Dhamtari**.

2.2.2 West Flowing Rivers from Tapi to Tadri, Damanganaga & Krishna

2.2.2.1 Maharashtra

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. Alert may be kept in districts **Raigad and Ratnagiri**, etc.

Krishna Basin: In Krishna basin water level rise is expected in rivers Yerala, Nira, Bhima and upper Krishna. Keep watch in districts **Satara, Kolhapur and Pune**.

2.2.2.2 Gujarat

DamanGanga Basin: Madhuban dam is expected to receive heavy inflows. Alert may be kept in districts **Valsad and Navsari**.

Independent Rivers of Saurashtra: Due to the presence of low pressure area over south Rajasthan and adjoining Gujarat, heavy rainfall alert have declared by IMD in Saurashtra region. Hence alert may be kept in districts **Jamnagar, Dwarka & Rajkot**.

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

Alert may be kept in **whole Uttarakhand** as heavy rainfall is continuing; increased flows are expected in major rivers and its tributaries such as Alaknanda, Sarju, Sarda, Ramganga, Bhagirathi & Mahakali. Ghagra river is in severe flood situation in Ballia (U.P.) with slow rising trend. Other northern tributaries of Ganga in Uttar Pradesh & Bihar such as Rapti, Gandak, Burhi Gandak, Bagmati, Adhwara, Kamla, Kosi, Parman & 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 in Bihar, Jharkhand & West Bengal with slow falling trend.

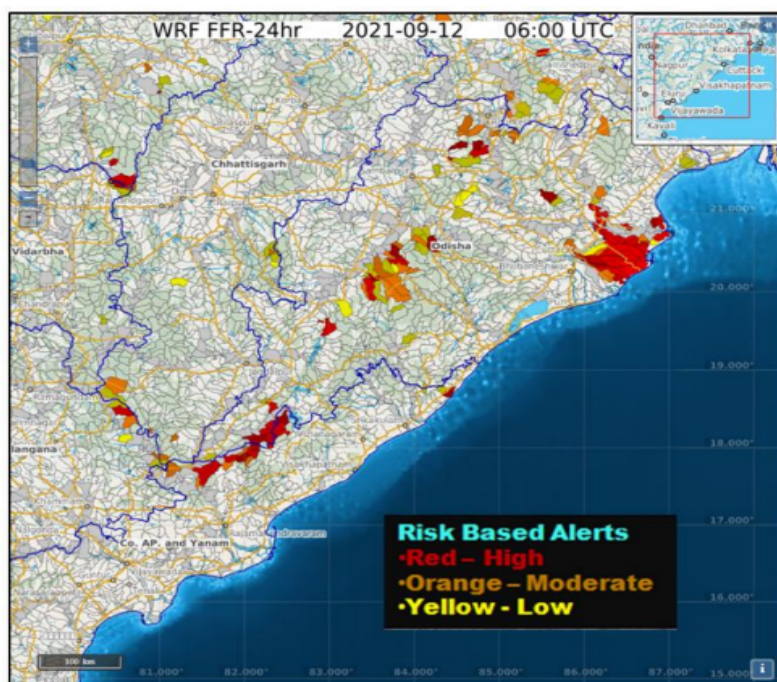
2.3 Flash Flood Guidance

IMD has issued Flash Flood Guidance of high risk over few watersheds and neighbourhoods of Odisha, North coastal Andhra Pradesh & Yanam, parts of south Chhattisgarh met sub divisions in next 24 hours.

24 hours Flash Flood Risk (FFR) Outlook Till 1130 IST of 13.09.2021:

High Risk likely over few watersheds and neighborhoods of Odisha, adjoining Extreme North Coastal AP & Yanam, parts of South Chhattisgarh 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 forecasted rainfall in next 24 hours.



3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 11thSeptember, 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	NagarjunaSagar	Krishna/Lower Krishna/Krishna	AP	Nalgonda(Tel), Guntoor (AP)					
2	Musi	Musi/Lower Krishna/ Krishna	Tel	Nalgonda					
3	Sri PadaYellampally	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	RanaPratapSagar	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	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
40	Srisaillam	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal(Telangana), Kurnool(AP)/ Nalgonda(Telangana), Guntoor (AP)					
41	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
42	PD Jurala	Krishna/ Middle Krishna/Krishna	Tel	Raichur(Kar)/Kurnool(Andhra Pradesh),JogulambaGadwal(Tel)					
43	Edamalayar	Upper Periyar/Periyar/Periyar	Ker	Coimbatore/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.