



Central Water Commission
Daily Flood Situation Report cum Advisories
15-09-2021

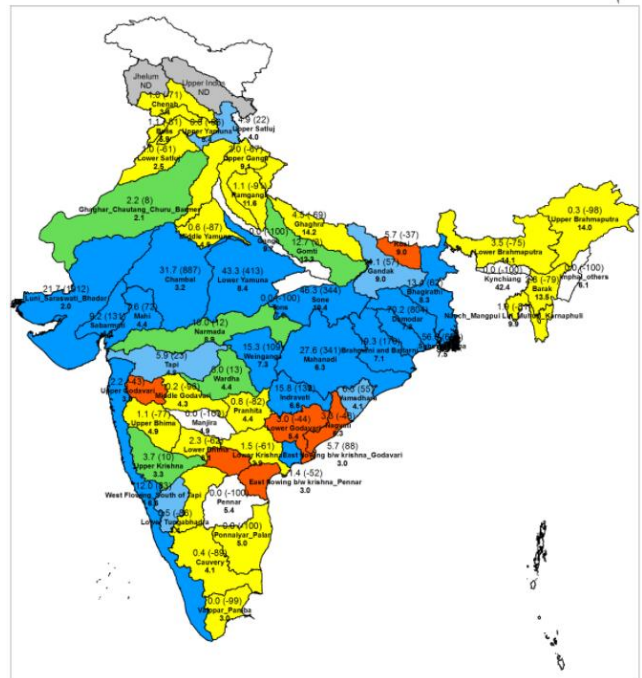
1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall

RIVER BASIN RAINFALL MAP : INDIA
 Period :01-06-2021 To 15-09-2021



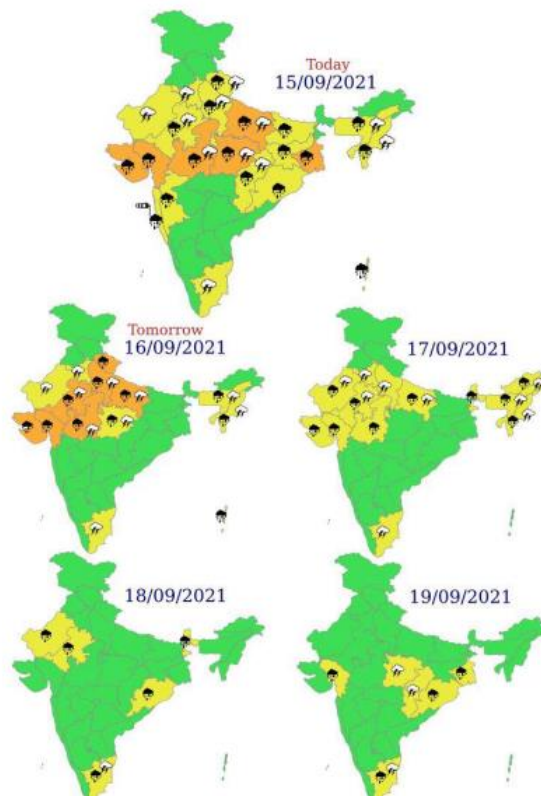
RIVER BASIN RAINFALL MAP : INDIA
 Date :15-09-2021



	Large Excess [60% or more]		Excess [20% to 59%]		Normal [-19% to 19%]		Deficient [-59% to -20%]		Large Deficient [-99% to -60%]		No Data [-100%]		No Rain
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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 September, 2021 (Midday) by IMD



- Very Heavy Rainfall over Gujarat State, West Madhya Pradesh and East Uttar Pradesh on 15th&16th; East Madhya Pradesh and Gangetic West Bengal on 15th; over Uttarakhand, East Rajasthan & West Uttar Pradesh on 16th September 2021.

2.0 Flood Situation and Advisories

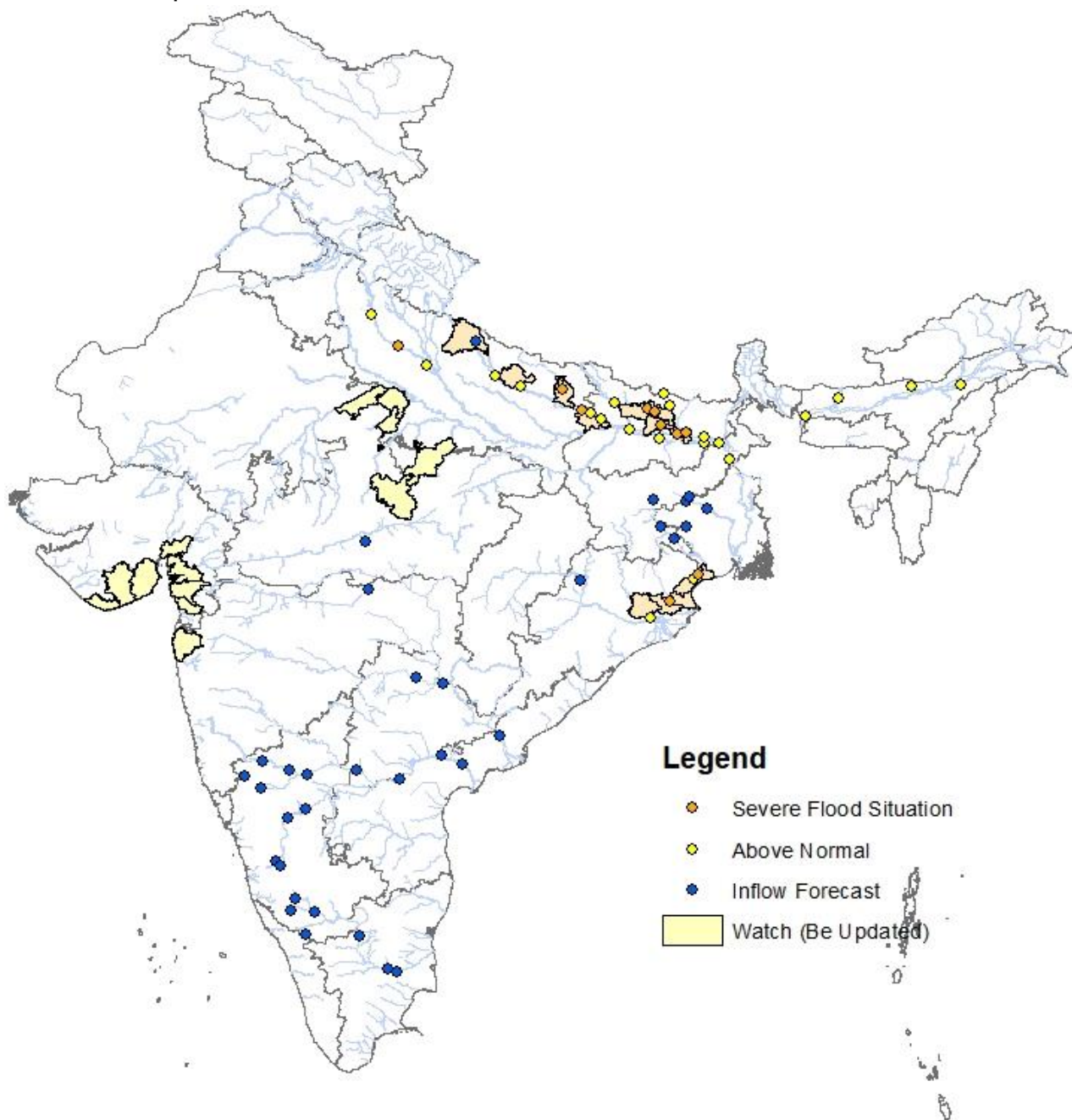
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 15th September, 2021, 11 Stations (6 in Bihar, 3 in Uttar Pradesh, 2 in Odisha) are flowing in Severe Flood Situation and 21 stations (9 in Bihar, 4 each in Assam & Uttar Pradesh, 2 in Odisha and 1 each in Jharkhand & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 34 Barrages & Dams (13 in Karnataka, 5 in Jharkhand, 4 in Andhra Pradesh, 3 each in Tamilnadu & Telangana, 2 in West Bengal and 1 each in Madhya Pradesh, Maharashtra, 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))	11
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	21
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)		34

Details are given at link: http://cwc.gov.in/sites/default/files/cwcdfb-15.09.2021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Brahmani, Baitarni, Subernrekha, Damodar, Mahanadi & Godavari Basins

2.2.1.1 West Bengal

Water level rise is expected in the rivers such as Kasai, Damodar, Silai, Ajoy, Subernarekha, etc. Hence alert may be kept in districts **Birbhum, Puruliya, Bankura, Pashchim Medinipur, East Medinipur, Jhargum & Pashchim Bardhaman**.

2.2.1.2 Odisha

Since the low pressure system has travelled past Odisha, rainfall has reduced considerably over the region and hence water level in rivers such as Brahmani, Baitarni, Mahanadi are in deceasing trend. Currently, river Jalka of **Subarnarekha basin in Balasore** district and river **Baitarni in Bhadrak** district are flowing in severe flood situation with steady/falling trend. River **Mahanadi in Cuttack** district is flowing in above normal flood situation with falling trend.

2.2.1.3 Chhattisgarh

Water levels of river Mahanadi and its tributaries are still in rising condition in most of the districts. Since rainfall has decreased over the regions it is expected that Mahanadi river will also start falling in next one or 2 days. Godavari river and its tributaries are in falling condition.

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

2.2.2.1 Maharashtra

Independent rivers originating from Western Ghats: IMD has predicted strengthening of monsoon current due to presence of low pressure area and hence heavy rainfall are expected over Western Ghats. 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 **Palghar** district.

Daman Ganga Basin: Alert may be kept in **Nasik** district.

2.2.2.2 Gujarat

Daman Ganga Basin: Madhuban dam is expected to receive heavy inflows. Alert may be kept in district **Navsari**.

Tapi basin: Increased flows are expected in forthcoming days in lower Tapi basin, hence, alert may be kept in district **Surat & Tapi**.

Independent Rivers of Saurashtra: Due to the presence of low pressure area over Gujarat, heavy rainfall alert has been issued by IMD in Saurashtra region. Hence alert may be kept in districts **Gir Somnath, Amreli, Bhavnagar districts**. Water levels are expected to rise in rivers Machhundri, Hiren and Shterunji.

Mahi & Narmada Basin: Alert may be kept in lower Mahi basin in district **Anand** and Lower Narmada basin in district **Bharuch**. Tawa reservoir (Narmada Basin) in Hosangabad district has reached its FRL, hence, it should be operated as per SOP after advance information to downstream areas.

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

2.2.3.1 Sindh, Betwa, Tons- Madhya Pradesh

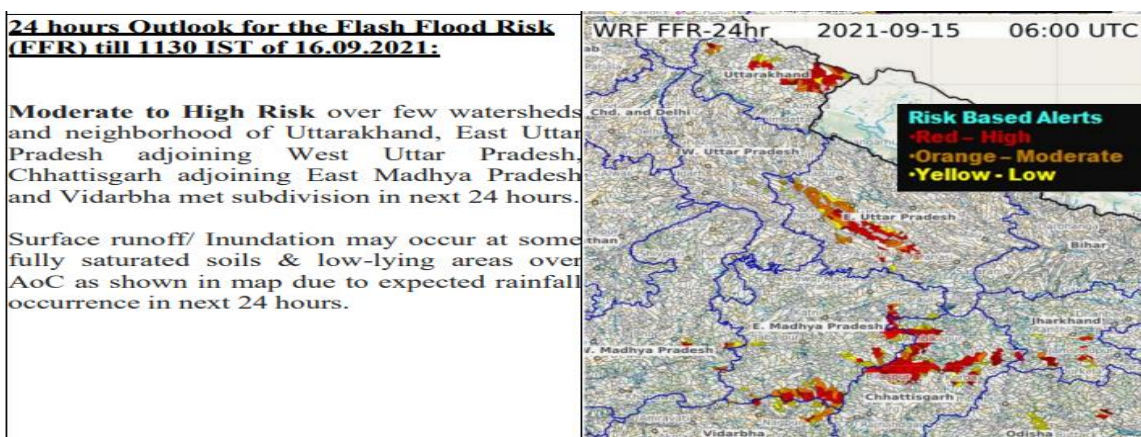
Rainfall is expected to decrease over the region as the pressure system has become well marked low pressure area from depression. Alert may be kept in districts **Bhind, Datia, Morena** (Sindh basin); **Chhatarpur, Sagar** (Betwa basin); **Rewa, Satna** (Tons basin). Heavy inflows are expected in the major storages in the above said districts. Hence releases from dams may be done as per SOP after informing downstream districts/ states.

2.2.3.2 Uttar Pradesh, Bihar, Jharkhand & West Bengal

Flooding situation in Northern tributaries of Ganga in Uttar Pradesh & Bihar has receded considerably and fallen below danger level. In coming days, it is expected to recede further. As per numerical weather prediction models of IMD increased rainfalls are expected in Nepal and Eastern U.P. mainly in Ghagra, Rapti and Gandak basin hence increased flows are expected in the said rivers in coming days.

2.3 Flash Flood Guidance

IMD has issued Flash Flood Guidance of Moderate to high risk over few watersheds and neighborhoods of Uttarakhand, East Uttar Pradesh adjoining West Uttar Pradesh, Chhattisgarh adjoining East Madhya Pradesh and Vidharbha met subdivisions in next 24 hours.



3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 15th September, 2021

Reservoirs shown in red are having gross storage capacity more than 90% and those in orange are having gross storage greater than 70%. 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	Mancherial/ JaishankarBhupalpally					
4	Sriramsagar Project	Godavari/Middle Godavari/Godavari	Tel	Nanded (Mah)/Nirmal (Tel)					
5	Kaddam	Kaddam/Middle Godavari/Godavari	Tel	Adilabad, Nirmal/ Mancherial					
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	Upper Wardha	Wardha/Wardha/Godavari	Mah	Wardha, Amravati					
29	Veer Dam	Nira/Upper Bhima/Krishna	Mah	Pune, Satara					
30	Mula	Mula/Upper Godavari/Godavari	Mah	Ahmadnagar					
31	Totladoh	Pench/Wainganga/Godavari	Mah	Chindwara(MP)/Nagpur(Mah)					
32	Parwati	Parbati/Kalisindh/Upper Chambal	Raj	Baran (Raj)/Baran (Raj), Kota (Raj), Sheopur (MP)					
33	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Raj	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
34	Panchana	Gambhiri/Upper Chambal/Ganga	Raj	Karauli					
35	Gudha	Mejchambal/UpperChambal/Ganga	Raj	Bhilwara/Bundi					

36	Kalisindh	Kalisindh/Upper Chambal/Ganga	Raj	Jhalawar, Kota					
37	Gandhi Sagar	Chambal/Upper Chambal/Ganga	MP	Mandsaur,Neemuch(MP)/Dholpur(Raj)					
38	Bargi	Narmada/Upper Narmada/Narmada	MP	Mandla, Seoni/Jabalpur, Narsimhapur					
39	Tawa	Tawa/Middle Narmada/Narmada	MP	Betul,Hoshnabad/Sehore					
40	Rajghat	Betwa/Betwa/Ganga	MP	Ashoknagar(MP), Lalitpur(UP)/Shivpuri, Lalitpur(UP)					
41	Indira Sagar	Narmada/Narmada b/w Hosangabad to SSP/Narmada	MP	Harda, Dewas, Khandwa/Khargone					
42	Sanjay Sarovar	Wainganga/Wainganga/Godavari	MP	Seoni					
43	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	TN	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
44	Rengali	Brahmani River/Brahmani and Baitarni/Brahmani and Baitarni	Odisha	Deogarh/Angul, Dhenkanal					
45	Hirakud	Mahanadi River/Upper Mahanadi/Mahanadi	Odisha	JanjgirChampa, Raigarh(Chsgrh), Jharsuguda, Bargarh, Sambalpur(Odisha)/Subarnapur, Baudh, Anugul (Odisha)					
46	Nizamsagar	Manjira/Manjira/Godavari	Tel	Medak/Kamareddy					
48	Srisaillam	Krishna/Lower Krishna/Krishna	AP	JogulambaGadwal(Telangana), Kurnool(AP)/ Nalgonda(Telangana), Guntoor (AP)					
49	Ukai	Tapi/Lower Tapi/Tapi	Guj	Nadurbar(Mah), Tapi(Guj)/ Surat (Guj)					
50	Madhuban	Damanganga/Damanganga/West Flowing Rivers from Tapi to Tadri	Guj	Valsad (Guj)/Selvasa (UT of DNH)					
51	Edamalayar	Upper Periyar/Periyar/Periyar	Ker	Coimbatore/Ernakulam					
52	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.