



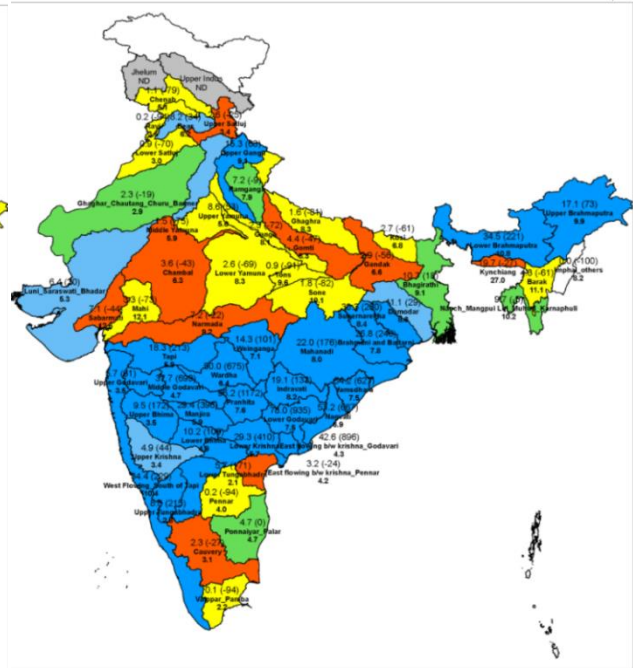
Central Water Commission
Daily Flood Situation Report cum Advisories
07-09-2021

1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall

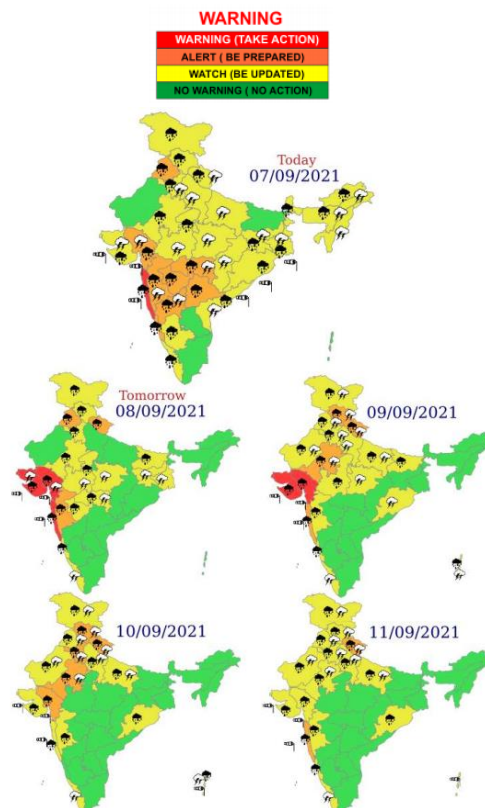
RIVER BASIN RAINFALL MAP : INDIA
 Period :01-06-2021 To 07-09-2021

RIVER BASIN RAINFALL MAP : INDIA
 Date :07-09-2021



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 7th September, 2021 (Midday) by IMD



- Extremely Heavy/Very Heavy Rainfall at isolated places over Telangana, Vidarbha, Coastal & North Interior Karnataka and Marathwada on 07th; Gujarat Region during 07th-10th; Saurashtra & Kutch on 08th-09th; Madhya Maharashtra and Punjab on 08th; Konkan during 07th-09th; Himachal Pradesh and East Rajasthan on 09th & 10th, Uttarakhand during 08th-11th; Haryana on 10th September.

2.0 Flood Situation and Advisories

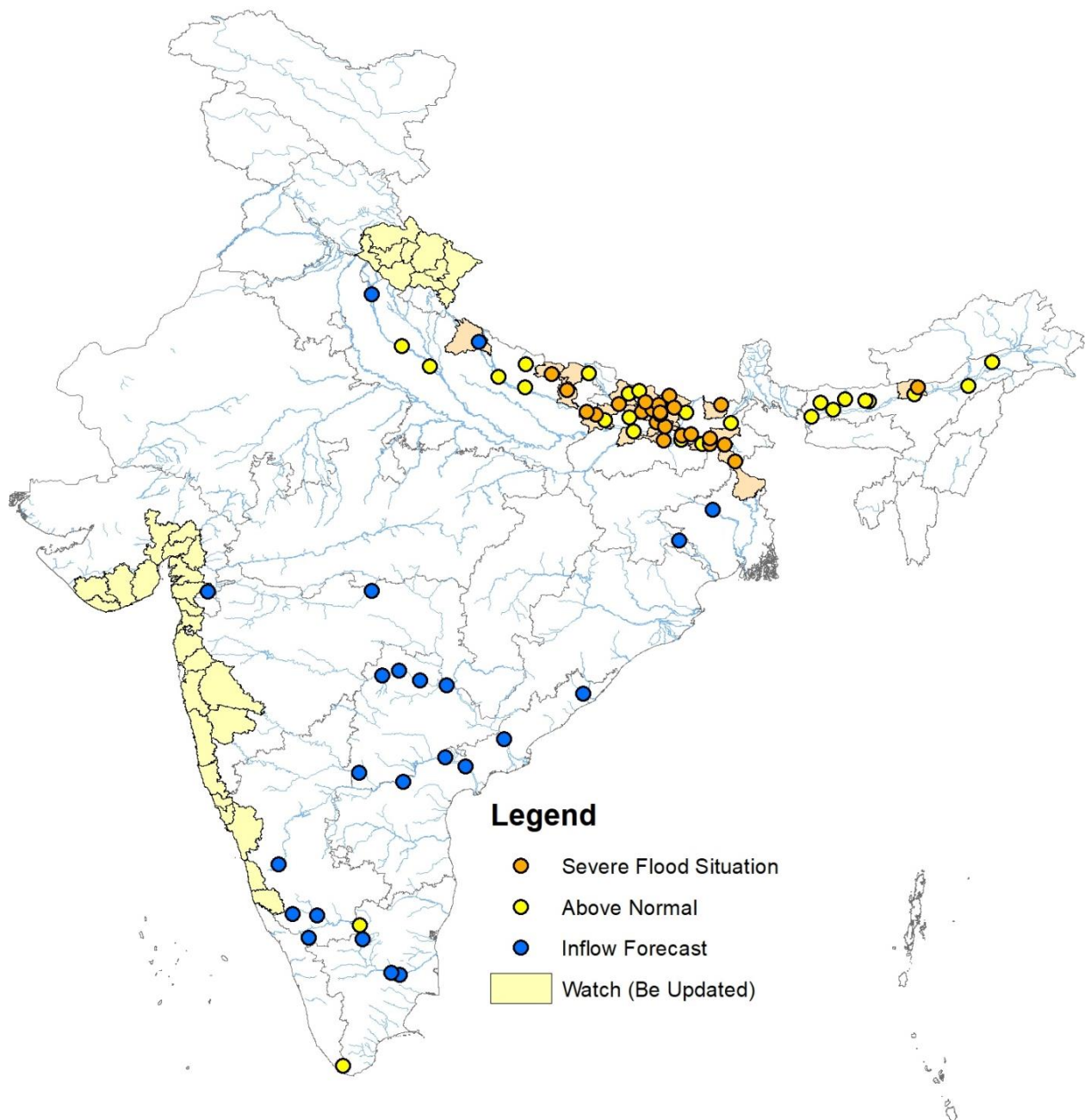
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 7th September, 2021, 24 Stations (18 in Bihar, 3 in Uttar Pradesh, and 1 each in Assam, Jharkhand & West Bengal) are flowing in Severe Flood Situation and 26 stations (9 each in Assam & Bihar, 6 in Uttar Pradesh and 2 in Tamilnadu) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 23 Barrages & Dams (5 in Telangana, 4 each in Andhra Pradesh & Karnataka, 3 in Tamilnadu, 2 each in Jharkhand & Uttar Pradesh and 1 each in Gujarat, Maharashtra & 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))	24
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)		50
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)		23

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfcrwcdfb-07.09.2021-2_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

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

2.2.1.1 Maharashtra

Since Ghat regions of Maharashtra are expected to receive very heavy rains, rivers rising in Upper Godavari and other tributaries of Godavari such as Pravara, Sina, Manjira, Dudhana, Mula & Penganga are expected to receive increased runoff and hence water level in these rivers are expected to rise. Alert may be kept in districts **Jalgaon, Aurangabad, Nanded, Bid & Parbhani**. Dams located in above said districts such as Yeldari (100%), Siddeshwar (96%), Lower Manar (88%) & Lower Dudhana (71%) are having high storages and expected to receive high inflow. Heavy inflows are also expected in Upper Wardha Project (> 500 cumec) till tomorrow (08.09.2021) morning. Proper reservoir operation in accordance to standard operating manuals should be done, after informing downstream areas in advance.

Tapi and its tributary Purna is expected to receive increased inflows, hence, alert may be kept in districts **Amaravathi, Akola, Dhule & Jalgaon**.

Damanganga basin is expected to receive increased flows, hence, alert may be kept in **Nashik**.

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. Bav in Ratnagiri district is already now flowing above danger level. Alert may be kept in **Raigad, Ratnagiri, Mumbai, Thane, Satara, Pune, Kolhapur & Sindhudurg**.

In Krishna basin increased inflow are expected in the reservoirs **Koyna (89%), Warana (93%), Ujjani (61%) and Veer (68%)** dams. As these dams are having high storages, hence, if releases are made that should be as per standard operating manual after informing the downstream areas in advance.

2.2.1.2 Telangana

Flow created from yesterday's very heavy rains in north Telangana and today's heavy rainfall over Madhya Maharashtra and Vidharba will be progress downstream and will be realized in districts of Telangana and Andhra Pradesh. **Flood situation may exist in northern Telangana and Andhra Pradesh regions of Godavari basin**. Heavy inflows are expected in Sriramsagar Sagar (> 6000 cumec), Kaddam dam (~1300 cumec), Sripada Yellampally (>7500 cumec), Laxmi Barrage (> 13000 cumec) till tomorrow (08.09.2021) morning. Alert may be kept in districts **Kumaram Bheem, Adilabad, Nirmal, Nizamabad & Kamareddy**. 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.

In Krishna basin increased inflows are expected into dams P.D.Jurala (~2800 cumec) till tomorrow (08.09.2021) morning.

2.2.1.3 Karnataka

In Krishna basin Alert may be kept in **Bidar, Gulbarga, Bijapur, Bagalkot and Belgaum districts**. Water level in rivers such as Bornala, Bhima, Kagina, Malaprabha, Dudhganga & Panchganaga are expected to rise. Most of the dams in Krishna Basin in Karnataka are also having storage between 93% to 100%. Tungabhadra, Hidkal & Almatti Dams are filled to their full capacity (100%). Storages are also very high in Malaprabha (97%), Bhadra (99%) and Narayanpur (93%) dams. Reservoir operation may done as per SoP after informing downstream areas.

There is likelihood of water level rise in rivers such as Gurpur, Shiriya, Sita, Netravathi, Haladi, Kumaradhara, Shambhavi, Aghanashini, Swarna in next 2 to 3 days. Alert may also kept in districts **Uttar kannada, Udupi & Dakshin Kannada**.

2.2.1.4 Gujarat

Ukai dam, Hathnur dams (Tapi basin), Kadana Dam (Mahi river), Madhuban Dam (Damanganga river) are expected to receive heavy inflows in forthcoming 2 to 3 days. Alert may be kept in **Surat, Tapi, Narmada and Valsad** districts. Rainfall and increased flows are expected to rise water level in Mahi, lower Sabarmati and Banas basins after 24 hrs.

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

Many of the rivers in Uttar Pradesh, Bihar, Jharkhand & West Bengal continue to flow in Severe to Above Normal Flood Situation with steady/falling trend. In coming days, flooding situation is expected to recede slowly. Alert may be kept in **whole Uttarakhand** as heavy rainfall has been predicted for next 2 days.

2.3 Flash Flood Guidance

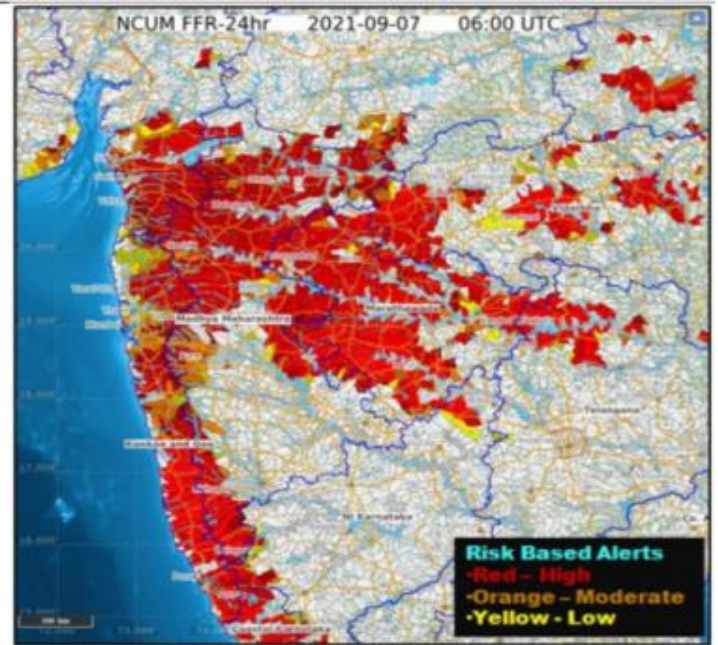
IMD has issued Flash Flood Guidance of high risk over few watersheds and neighborhoods of South Gujarat Region, Konkan & Goa, North Madhya Maharashtra and Marathwada in next 24 hours.

24 hours Flash Flood Risk Outlook Till 1130 IST of 08.09.2021:

High Risk likely over few watersheds and neighborhoods of **South Gujarat Region, Konkan & Goa, North Madhya Maharashtra, and Marathwada** met subdivisions in next 24 hours.

Moderate to High Risk likely over few watersheds and neighborhoods of **Saurashtra & Kutch, Vidarbha, and North West Telangana** 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 7th 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 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	Cauvery/Upper Cauvery/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	Chikmagalur/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	Majlegaon	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)					

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.