



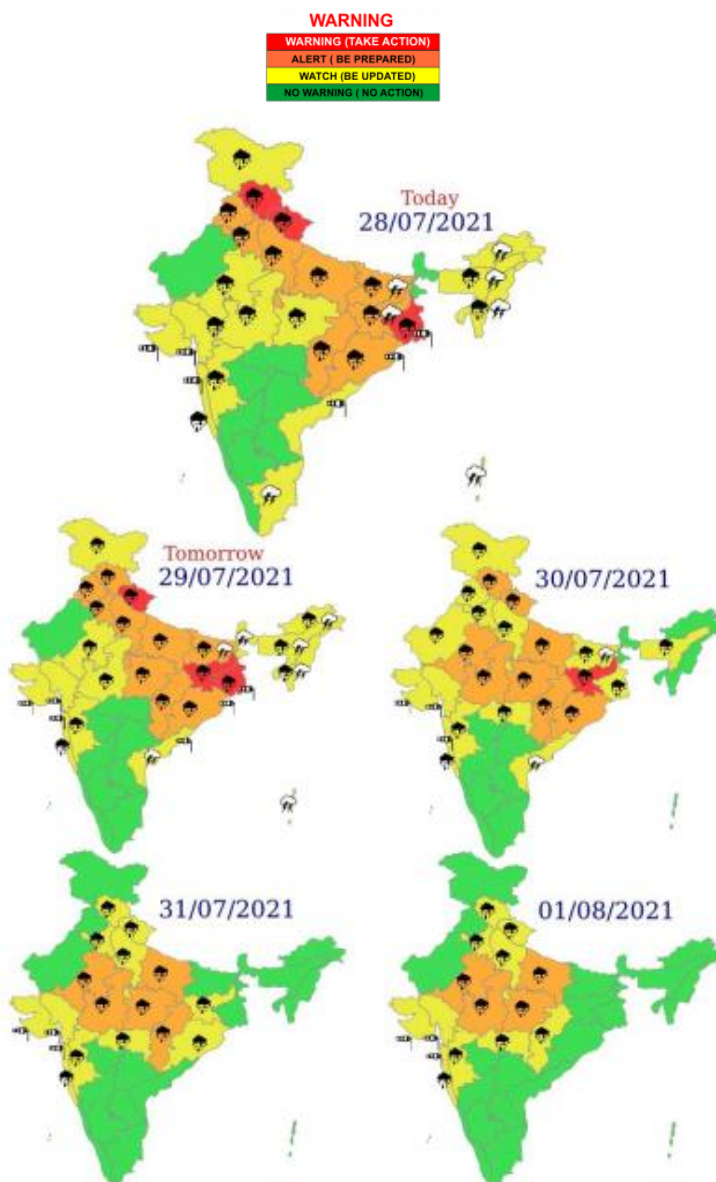
Central Water Commission
Daily Flood Situation Report cum Advisories
28-07-2021

1.0 IMD information

1.1 Chief amount of rainfall recorded at 0830 hours IST of today (9 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Kunda (Uttar Pradesh)	24
Kapurthala (Punjab), Samnapur (Maharashtra)	17 each
Mussoorie (Uttarakhand), Bhaiyathan (Chattisgarh), Etawah (Uttar Pradesh)	16 each
Kanth (Uttar Pradesh), Sama (Gujarat)	14 each
Karwai (Jharkhand), Muzaffarnagar & Karwi (Uttar Pradesh), Marwahi (Chattisgarh), Sama (Uttarakhand)	13 each
Dehradun & Jollygrand (Uttarakhand), Wadrafanagar (Chattisgarh), Tibri, Gurdaspur & Nakodar (Punjab), , Bhind (Madhya Pradesh), Kanpur & Lucknow (Uttar Pradesh)	12 each
Nawanshahar (Punjab), Karnal (Haryana)	11 each
Nasirabad & Chipa Barod(Rajasthan), Dharamshala (Himachal Pradesh), Bhatpurwaghat, Kaiserganj & Hathras (Uttar Pradesh), Jagadhri & Thanesar (Haryana), Paraswada (Madhya Pradesh)	10 each
Naraingarh (Haryana), Prayagraj (Uttar Pradesh)	9 each

1.2 Rainfall forecast for next 5 days issued on 28th July 2021 (Midday) by IMD



- Isolated Very Heavy/Extremely Heavy falls over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Jharkhand and Odisha during 28th-30th; Punjab, Haryana, Bihar and Gangetic West Bengal on 28th & 29th; East Rajasthan and West Madhya Pradesh 30th July to 01st August; Chhattisgarh during 28th-31st July and East Madhya Pradesh during 29th July to 01st August.

2.0 Flood Situation and Advisories

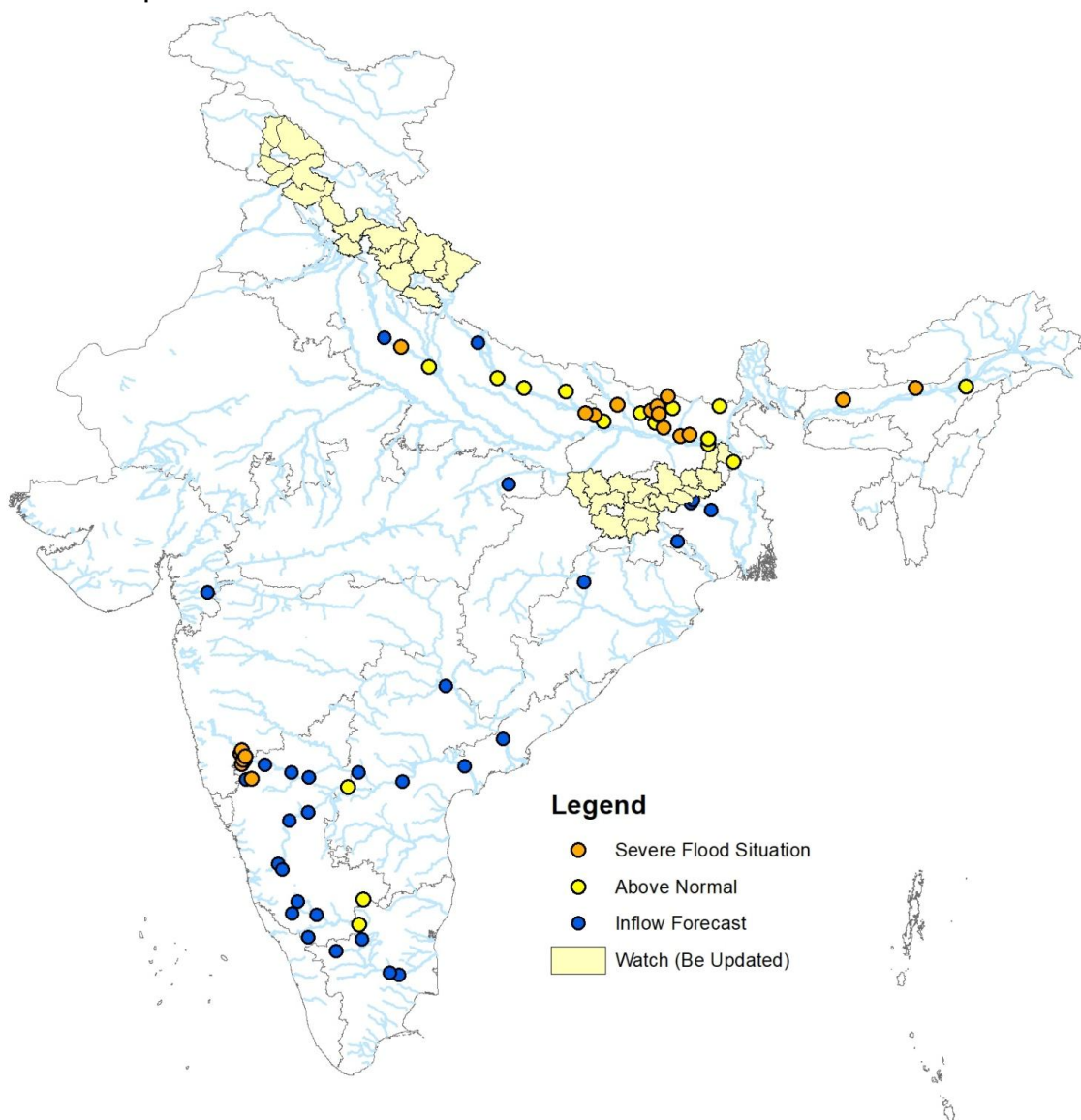
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 28th July 2021, 21 Stations are flowing in Severe Flood Situation (2 each in Assam, Karnataka & Uttar Pradesh; 5 in Maharashtra; 10 in Bihar) and 15 stations are flowing in Above Normal Flood Situation (1 each in Andra Pradesh, Assam, West Bengal; 2 in Tamil nadu; 4 in Uttar Pradesh; 6 in Bihar). Inflow Forecast has been issued for 24 Barrages & Dams (1 each in Jharkhand, Madhya Pradesh, Odisha, Uttar Pradesh; 2 each in Andra Pradesh, Telangana; 4 in Tamil Nadu; 12 in Karnataka).

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))	21
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	15
Total number of sites above Warning Level (A+B+C)		36
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://cwc.gov.in/sites/default/files/dfbcwc28072021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Indus Basin and its Tributaries (Sutlej, Chenab, Beas, Ravi, Jhelum, etc) -Himachal Pradesh, Jammu & Kashmir

Already incidences of heavy rainfall and cloudburst has been observed in Chenab river basin. Due to forecast of heavy to very heavy rainfall in these region in the next 2 days, there is likelihood of rise in water levels in rivers such as Sutlej, Ravi, Beas, Chenab&Ghaggar. There is likelihood of flash floods in some of the hilly districts in these states in association with cloud burst. Necessary precautions have to be taken for possible landslides and blockages of river flows due to landslides in high ranges of these states. Alert may be kept in districts **Lahaul & Spiti, Bilaspur, Chamba, Kangra, Mandi, Kullu, Una & Kinnaur** of Himachal Pradesh and **Pathankot, Udhampur, Rajouri, Kathua & Punch** of Jammu & Kashmir.

2.2.2 Ganga basin

2.2.2.a Upper Ganga Basin in Uttarakhand

Extremely heavy rainfall has been predicted in Ganga, Alaknanda, Bagirathi, Ramganga, Sharda,Gori,etc river basins. This may be associated with incidences of flash floods and landslides in the districts of **Chamoli, Hardwar, Almora, Nainital, Udham Singh Nagar, Champawat,Pithoragarh, Bageshwar, Nanital, Garhwal, Dehradun & Rudrapur** of Uttarakhand.

2.2.2.b Upper Yamuna in Himachal Pradesh, Uttarkhand

Extremely heavy rainfall has been predicted in upper reaches of Yamuna in Himachal Pradesh and Uttarakhand. This may be associated with incidences of flash floods and landslides in the district of **Sirmaur** in Himachal Pradesh, **UttarKashi, Dehradun** in Uttarakhand. This may lead to rise in water level of Yamuna at Saharanpur, Muzaffarnagar districts in Uttar Pradesh.

2.2.2.c Chambal Basin, Gambhir River – Rajasthan & Madhya Pradesh

Heavy rainfall has been predicted in the rivers Gambhir, Lower catchment of Chambal as well as in its tributaries like Parbati, Kalisindh, etc. Alert may be kept in districts of **Jhalawar, Kota, Karauli, Bharatpur, Dholpur** (Rajasthan), **Neemuch, Dewas, Sheopur, Morena, Malwa, Mandsaur** (MP).

2.2.2.d Ganga – Bihar, Uttar Pradesh

Currently river Ghagra, Rapti, Gandak, Bagmati, Kamla, Burhi Gandak, Adhwar, Parman & Kosi are flowing in severe to above normal flood situation in districts **Barabanki, Gorakpur, Ayodhya & Ballia** (of Uttar Pradesh), **Siwan, Muzaffarpur, Gopalganj, Darbhanga, Madhubani, Khagaria, Supaul, Samastipur, Araria & Katihar** (of Bihar). Abatement of water levels in above mentioned rivers of Bihar are expected to be very slow. Alert may also be sounded in the districts of **Gonda & Lakhimpur**.

Main Ganga river is alter may be kept in the districts **Hapur, Badaun, & Farrukhabad** (of Uttar Pradesh) & **Bhagalpur** (Bihar) hence alert may be kept.

2.2.3 Mahanadi, Brahmani, Baitarni, Burhabalanga, Damodar, Subarnarekha, Kangsabati – Odisha, Jharkhand, West Bengal

As per the special bulletin issued by IMD, Odisha, due to formation of Low Pressure Area over Bay of Bengal and neighbourhood, heavy rainfall may occur in the river basins of Odisha such as Mahanadi, Brahmani, Baitarni & Burhabalanga. Hence alert is issued in districts **Bargarh, Jharsuguda, Sundargarh, Deogarh, Keonjhar, Mayurbhanj, Balasore, Bhadrak, Jajpur, Kendrapada, Jagatsinghpur, Angul, Puri, Sambalpur, Khordha and Cuttack** in Odisha.

In **Jharkhand**, alert may be kept in the river basins of Damodhar, Subarnarekha in the districts **Bokaro, Ramgarh** (Damodhar river); **Purbi Singhbhum** (Subarnarekha river); **Giridih** (Mayuraskshi River); **Jamtara, Deogarh** (Barakar river) & **Dumka** (Ajoy river).

In **West Bengal** alert may be kept in districts **Purulia, Bankura and Paschim Medinipur**

2.2.4 Godavari and Krishna basin– Maharashtra, Telangana, Andhra Pradesh & Karnataka

Godavari basin: IMD has predicted normal rainfall in Godavari basin. Water Levels in Godavari in Maharashtra have started falling after the recent flood wave. Sriramsagar (>90%), Karanja, Sri Pada Yellampally (>80%), Yeldari, Kaddam are having storages >70% and above. Hence releases are to be done as per SOP. Sriramsagar releases and combined effect of flow from Indravathi, Sabari, Pranhita and main Godavari will be realised at Polavaram Dam that is under Construction. Hence precaution needs to be taken.

Krishna Basin: Close watch is to be maintained in all reservoirs of Krishna, Bhima and their tributaries in Maharashtra. In Krishna basin, all the major dams such as Almatti, Narayanpur, P D Jurala, Bhadra, Malaprabha, Ghataprabha & Tungabhadra dam inflows are expected to follow steady to falling conditions. Releases from these dams may be done as per SOP.

2.2.5 Cauvery basin – Karnataka, Tamil Nadu

Inflows into Harangi, Hemavathi, Kabini and KRS dams are having steady trend. Close watch is to be maintained as the storages are high in most of the major projects. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States. Releases from Kabini dam are being realised at Mettur dam of **Salem and Dharmapuri** district (Tamil Nadu).

3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 28th July 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:

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	Pulichinthala	Krishna/Lower Krishna/ Krishna	Andhra Pradesh	Nalgonda(Telangana)/Guntoor,Krishna (AP)					
2	Srisalam	Krishna/Lower Krishna/Krishna	Andhra Pradesh	JogulambaGadwal (Telangana), Kurnool(AP)/Nalgonda(Telangana), Guntoor (AP)					
3	Sri	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/ JaishankarBhupalpally					
4	Sriramsagar	Godavari/Middle Godavari /Godavari	Telangana	Nanded (Mah)/Nirmal (Telangana)					
5	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad, Nirmal/ Mancherial					
6	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
7	Panchet	Damodar/Damodar East/ Ganga	Jharkhand	Dhanbad,Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
8	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad,Jamtara (Jharkhand)/ Puruliya, PaschimBardhaman, Bankura (WB)					
9	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)					
10	Harangi	Cauvery/Upper Cauvery/Cauvery	Karnataka	Kodagu/Mandya					
11	Karanja	Karanja/Manjera/Godavari	Karnataka	Bidar (Kar), Vikarabad(Telangana)/ Bidar(Kar)					
12	Almatti	Krishna/Upper Krishna/Krishna	Karnataka	Kolhapur(Mah)/ Bagalkote(Kar)					
13	KRS	Cauvery/Middle Cauvery/Cauvery	Karnataka	Mandya, Mysore					
14	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Karnataka	Gadag/Bellary, Koppal, Raichur					
15	Hemavathy	Hemavathy/ Hemavathy/Cauvery	Karnataka	Hassan, Kodagu/Mandya, Mysore					
16	Bhadra	Bhadra/Upper Tungabhadra/Krishna	Karnataka	Chikmagaluru/Shimoga					
17	Hidkal	Ghataprabha/Ghataprabha/Krishna	Karnataka	Kolhapur (Mah)/ Belgaum (Kar)					
18	Malaprabha	Malaprabha/Malaprabha/Krishna	Karnataka	Belgaum					
19	Warana	Warana/Upper Krishna/Krishna	Maharashtra	Kolhapur, Sangli					
20	Koyna	Koyna/ Upper Krishna/Krishna	Maharashtra	Satara/Kolhapur, Sangli					
21	Yeldari	Purna/Purna/Godavari	Maharashtra	Parbhani, Hingoli					
22	Veer	Nira/Upper Bhima/Krishna	Maharashtra	Pune, Satara					
23	RanaPratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/Dholpur,Kota, Bundi(Raj)					
24	SomKamlaAmba	Som/Mahi B/Mahi	Rajasthan	Udaipur/ Dungarpur					
25	Kalisindh	Kalisindh/Upper Chambal/Ganga	Rajasthan	Shajapur, Rajgarh(MP)/Jhalawar(Raj)					
26	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/Madurai					
27	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	Tamil Nadu	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					

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.