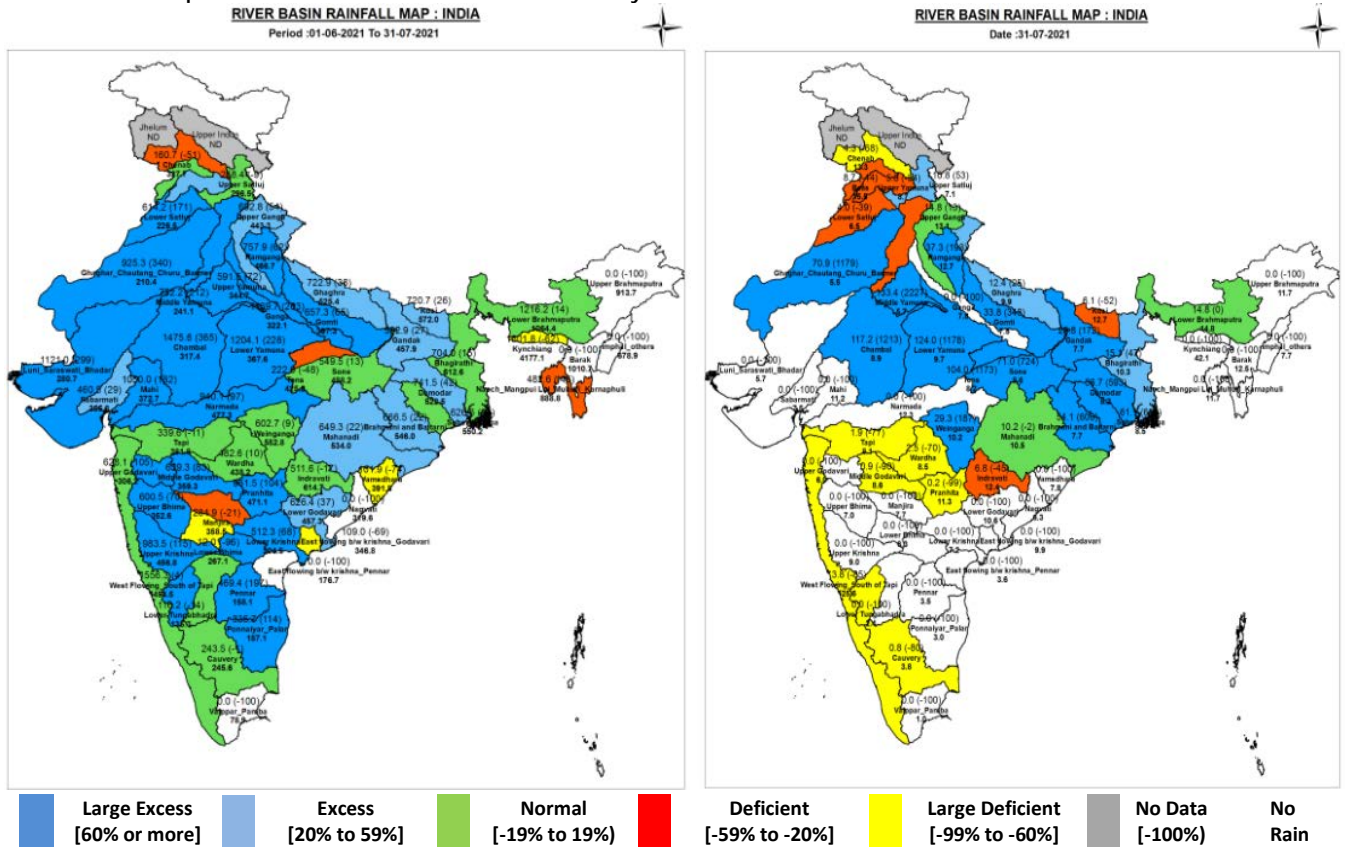




**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**31-07-2021**

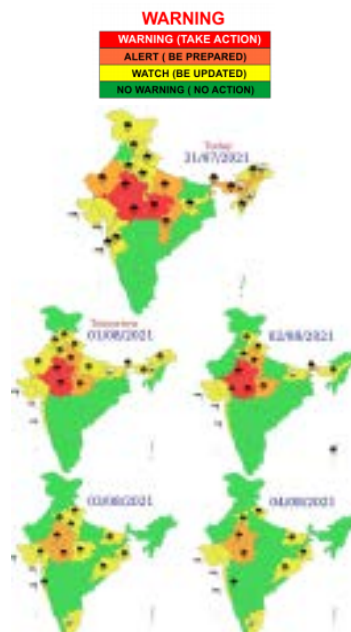
**1.0 Rainfall Situation**

**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 31<sup>st</sup> July 2021 (Midday) by IMD**



- Isolated heavy to very heavy falls likely over East Madhya Pradesh during 31<sup>st</sup> July-02<sup>nd</sup> August and over Chhattisgarh & East Uttar Pradesh on 31<sup>st</sup> July. Isolated extremely heavy falls are likely over East Madhya Pradesh on 31<sup>st</sup> July.
- Isolated heavy to very heavy falls very likely to continue over East Rajasthan and West Madhya Pradesh during 31<sup>st</sup> July-04<sup>th</sup> August with peak activity during 31<sup>st</sup> July-03<sup>rd</sup> August. Isolated extremely heavy falls likely over East Rajasthan and West Madhya Pradesh during 31<sup>st</sup> July-02<sup>nd</sup> August, 2021.
- Isolated heavy to very heavy falls very likely over West Uttar Pradesh during 01<sup>st</sup> -02<sup>nd</sup> August.
- Isolated heavy falls over Jammu & Kashmir on 31<sup>st</sup> July; Punjab on 01<sup>st</sup> August; Himachal Pradesh during 31<sup>st</sup>-02<sup>nd</sup> August and Uttarakhand and Haryana during 31<sup>st</sup> July-04<sup>th</sup> August.

## 2.0 Flood Situation and Advisories

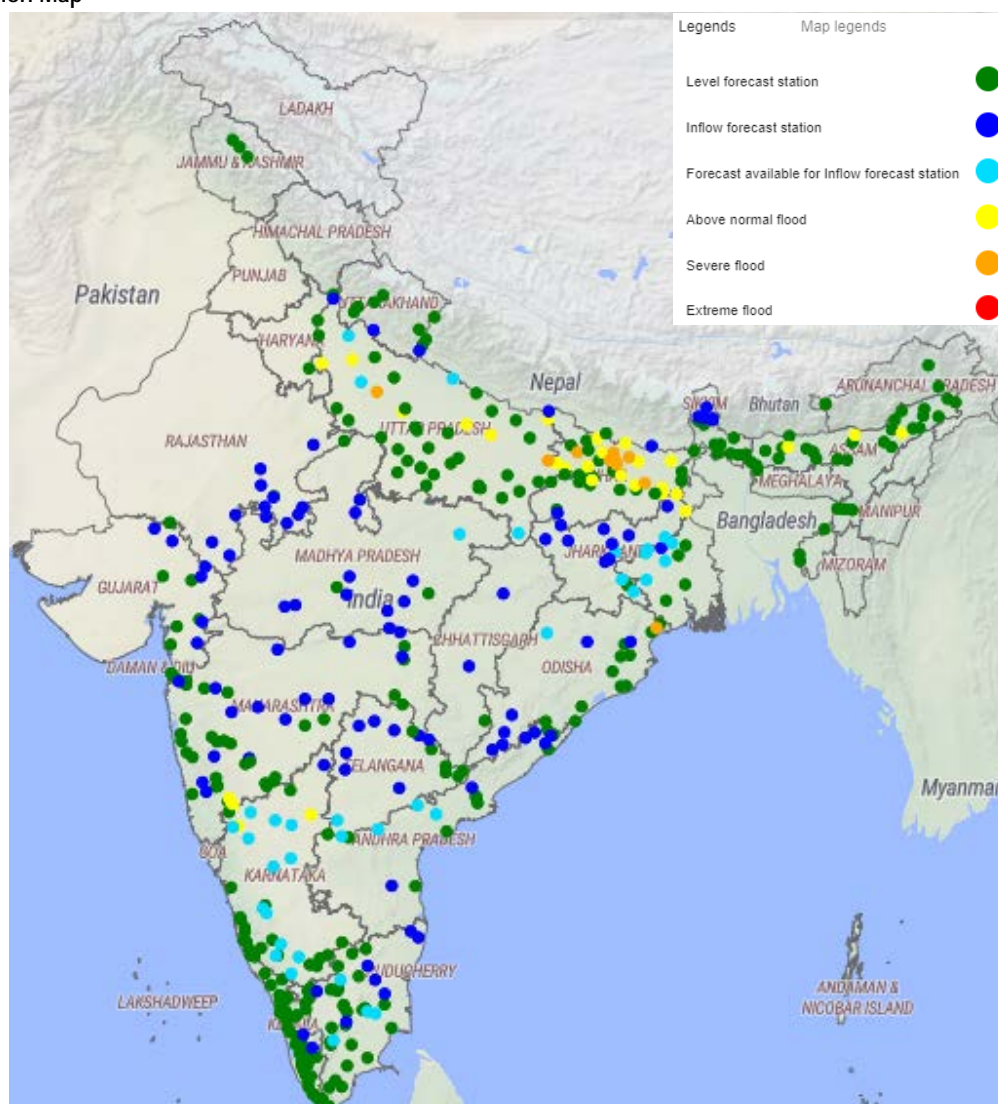
### 2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 31<sup>st</sup> July, 2021, 13 Stations (9 in Bihar, 2 in Uttar Pradesh and 1 each in Maharashtra & Odisha) are flowing in Severe Flood Situation and 25 stations (11 in Bihar, 4 in Uttar Pradesh, 3 each in Assam & Maharashtra and 1 each in Delhi, Jharkhand, Karnataka, & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 37 Barrages & Dams (13 in Karnataka, 6 in Jharkhand, 4 each in Andhra Pradesh, Tamil Nadu & Uttar Pradesh, 3 in West Bengal and 1 each in Odisha, Telangana, & Madhya Pradesh)

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))	13
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)		38
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)		37

Details are given at link: [http://cwc.gov.in/sites/default/files/cfrcwcdfb-31.07.20212\\_5.pdf](http://cwc.gov.in/sites/default/files/cfrcwcdfb-31.07.20212_5.pdf)

#### 2.1.1 Flood Situation Map



**2.2.1 Yamuna and its Tributaries - West and East Madhya Pradesh, East Uttar Pradesh, East Rajasthan, North Chattisgarh**

**Yamuna basin:** Yamuna River is flowing in above normal flood situation at Delhi Railway Bridge with falling trend. As per IMD forecast of very heavy rains for 2-3 days, the tributaries of Yamuna mainly Chambal, Tons, Dhasan, Sonar, Bearma, Kunwari, Betwa, Gambhir, Banganga, Banas, Kari & Kalisindh are expected to receive heavy flows. Hence, alert may be kept in districts such as **Banda, Chitrakoot districts of Uttar Pradesh; Niwari, Rewa, Sidhi, Satna, Tikamgarh, Swaimadholpur, Chhatarpur, Panna, Bhind, Morena, Gwalior, Sheopur, Mandsaur districts of Madhya Pradesh; Baran, Jaipur, Tonk, Bhilwara, Bundi, Chittagong, Jhalawar & Kota districts of Rajasthan; Korea, Singrauli & Surajpur districts of Chattisgarh.** For Betwa river alert may be kept in Chhatarpur, Tikamgarh (of Madhya Pradesh), Jhansi, Mahoba, Hamirpur, Lalitpur & Jalaun districts (of Uttar Pradesh).

**2.2.2 Mahanadi, Brahmani, Baitarni, Burhabalanga, Damodar, Subarnarekha, Mayurakshi – Odisha, Jharkhand, West Bengal**

The rainfall has reduced in the catchment of above said basins, but flow is continuing. Tenughat dam (Bokara dist., Jharkhand), Chandil dam (Sahebganj dist., Jharkhand), Kangsabati dam (Medinipur dist., West Bengal), Massanjore dam (Dumka, Jharkhand), Maithon and Panchet reservoirs of Dhanbad district (Jharkhand) are expected to receive increased inflows.

**2.2.3 Ganga basin- Himachal Pradesh, Uttarakhand, Uttar Pradesh, Delhi, Madhya Pradesh & Bihar**

Heavy rainfall has been forecasted in Uttarakhand, Uttar Pradesh and parts of Himachal Pradesh in the next 2 days; hence rise in river levels are expected in Ganga, Alaknanda, Bagirathi, Ramganga, Sharda, Gori & Upper Yamuna river basins. There is moderate risk of flash floods in Himalayan regions of Himachal Pradesh and Hilly regions of Uttarakhand during next 24 to 48 hours and hence maximum vigil has to be maintained.

River Ghaghra in Ballia & Barabanki Districts, River Gandak in Kushinagar District and River Ganga in Badaun, Hapur & Farrukhabad Districts of Uttar Pradesh are flowing in Severe to Above Normal Flood Situation.

Currently River Kosi in Khagaria, Supaul & Katihar districts, River Bagmati in Muzzafarpur & Sitamarhi districts, River Gandak in Gopalganj Dt, River Adhwa in Darbhanga District, Rivers Kamla & Kamlabalan in Madhubani Dt, River Burhi Gandak in Khagaria & Samastipur Districts, River Araria in Parman Dt, River Ghaghra in Siwan Dt and River Mahananda in Purnia Dt of Bihar are flowing in Severe to Above Normal Flood Situation.

**2.2.5 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 fallen after the recent flood wave. Sriramsagar (>90%), Karanja, Sri PadaYellampally (>80%), Yeldari, Kaddam are having storages >70% and above. Releases are to be done as per SOP. As PVN Rao Kantapally (Sammakka Barrage), is passing (80,000 Cusecs) water due to inflows into the barrage, the same will reach downstream and water levels of downstream sites will rise, hence it is advised that the sites from Perur to Dowlaiswaram to be watchful.

**Krishna Basin:** The inflows into major dams such as Almatti, Narayanpur, P D Jurala, Singatluru & Sunkesula barrage, Tungabhadra, Srisailem & Nagarjunasagar dam is getting inflows of steady to falling trend, whereas Pulichintala project is receiving inflows with rising trend. However, storages in almost all reservoirs are near to FRL, hence, releases from these dams may be done as per SOP. Currently, Yerala river is flowing in above normal flood situation in Sangli district (Maharashtra) and Krishna river is flowing above normal flood situation in Raichur, Belgaum districts (Karnataka). Severe flood situation exist in Kolhapur district in Panchganga river.

**2.2.6 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).

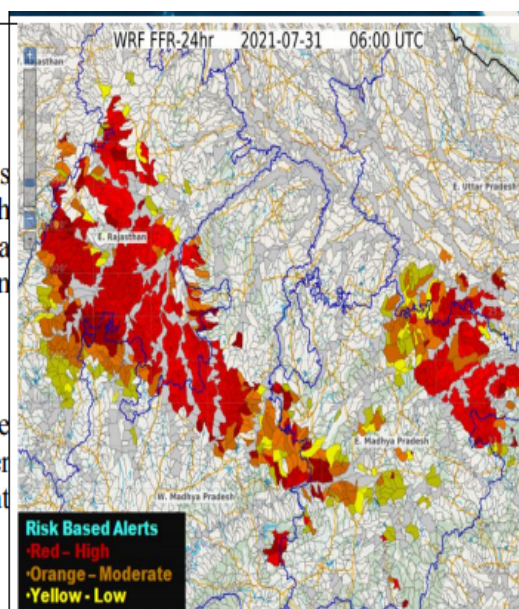
**2.3 Flash Flood Guidance**

IMD has issued flash flood risk over many watersheds and neighbourhood of East Madhya Pradesh, adjoining East Uttar Pradesh, West Madhya Pradesh & East Rajasthan.

**24 hours Outlook for the Flash Flood Risk till 1130 IST of 01.08.2021:**

**Moderate to High Risk** over few watersheds and neighborhood of East Madhya Pradesh adjoining East Uttar Pradesh, West Madhya Pradesh and East Rajasthan 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 persistent rainfall in next 24 hours.





### 3.0 Storage Position in Dams where Inflow forecast is being issued by CWC as on 31<sup>st</sup> 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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Storage above 85%	
Storage above 60%	

#	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 PadaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancheria/ JaishankarBhupalpally					
4	Sriramsagar Project	Godavari/Middle Godavari /Godavari	Telangana	Nanded (Mah)/Nirmal (Telangana)					
5	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad, Nirmal/ Mancheria					
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/Manjara/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	Chikmagalur/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	Kalisindh	Kalisindh/Upper Chambal/Ganga	Rajasthan	Shajapur, Rajgarh(MP)/Jhalawar(Raj)					
25	Panchana	Gambhiri/Upper Chambal/Ganga	Rajasthan	Karauli					
26	SomKamlaAmba	Som/Mahi B/Mahi	Rajasthan	Udaipur/ Dungarpur					
27	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/Madurai					
28	Bhavanisagar	Bhavani/Middle Cauvery/Cauvery	Tamil Nadu	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)					
29	Idukki	Periyar/Upper Periyar/West Flowing Rivers from Tadri to Kanyakumari	Kerala	Idduki/Ernakulam					
30	Edamalyar	Peirayar/Upper Periyar/West flowing rivers from Tadri to Kanyakumari	Kerala	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.