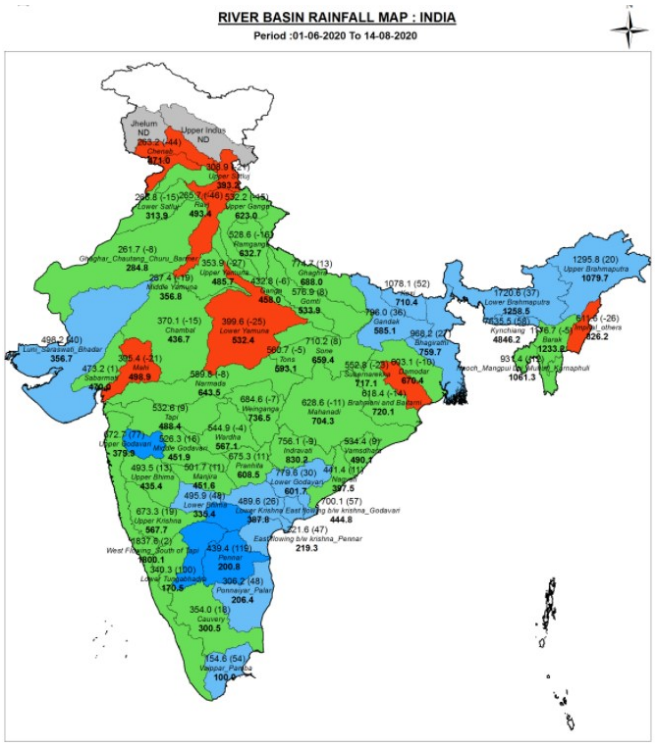
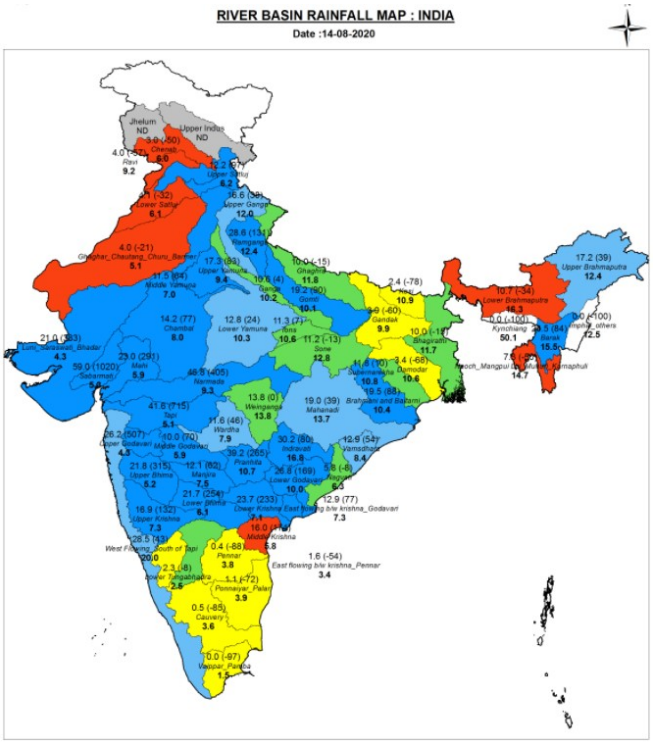
Central Water Commission
Daily Flood Situation Report cum Advisories
14-08-2020

1.0 IMD information

1.1 Basin wise departure from normal of cumulative and daily rainfall

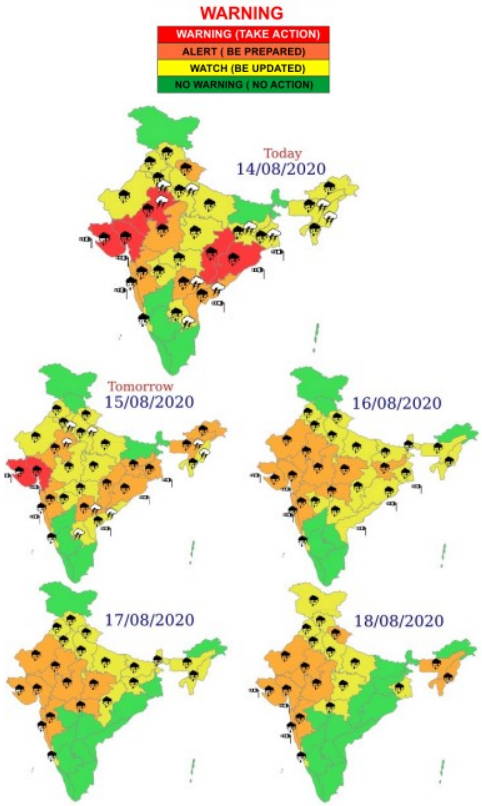




Large Excess [60% or more]	Excess [20% to 59%]	Normal [-19% to 19%]	Deficient [-59% to -20%]	Large Deficient [-99% to -60%]	No Data [-100%]	No Rain

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 14th August 2020 (Midday) by IMD



2.0 CWC inferences

2.1 Flood Situation on 14th August 2020

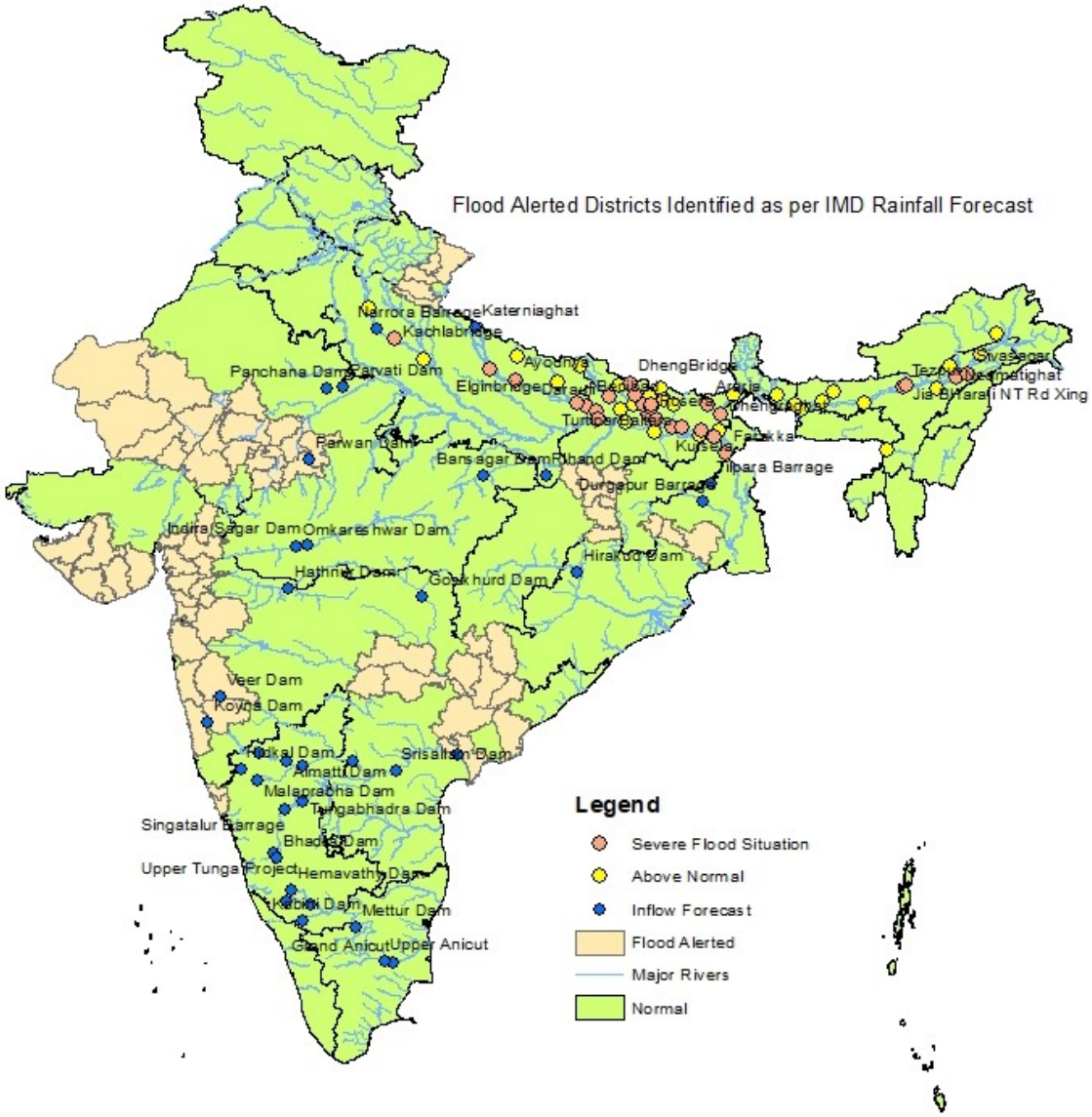
2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 14th August 2020, 26 Stations (16 in Bihar, 4 in Assam, 4 in Uttar Pradesh, 1 each in Jharkhand and West Bengal) are flowing in Severe Flood Situation and 28 stations (12 in Bihar, 9 in Assam, 5 in Uttar Pradesh, 1 each in Arunachal Pradesh and West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 38 Barrages and Dams (13 in Karnataka, 4 each in Madhya Pradesh and Maharashtra, 3 each in Andhra Pradesh, Uttar Pradesh, Rajasthan and Tamilnadu, 2 each in Telangana and West Bengal and 1 in Odisha)

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))	26
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	28
	Total number of sites above Warning Level (A+B+C)	54
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)	38

Details can be seen in link :- http://cwc.gov.in/sites/default/files/cfcr-cwcdfb14082020.pdf

2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network



2.2 CWC Advisories

- Fairly widespread to widespread rainfall with heavy falls at isolated places very likely over parts of northwest India (Himachal Pradesh, Uttarakhand, Haryana, Chandigarh, Uttar Pradesh) during next 2-3- days and decrease thereafter. Isolated very heavy falls likely over Uttarakhand on 14th August, 2020.
- Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Gujarat state, Konkan & Goa, Ghat areas of Madhya Maharashtra, East Rajasthan and parts of central India during next 4-5 days. Isolated extremely heavy falls also likely over Gujarat state and Ghat areas of Konkan & Goa on 14th & 15th August; East Rajasthan, Chhattisgarh and Ghat Areas of Madhya Maharashtra on 14th August, 2020.
- Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Odisha, Coastal Andhra Pradesh and Telangana during next 2 days. Isolated extremely heavy falls also likely over Odisha on 14th August, 2020.

Based on the above rainfall forecast the following advisories are issued by CWC for various States:

2.2.1 Gujarat, Maharashtra & Goa

Heavy to very Heavy rainfall with isolated Extremely Heavy rainfall is likely over Gujarat state & East Rajasthan during next 2-3 days and over Ghat areas of Madhya Maharashtra during next 24 hours. Hence there is likelihood of rise in Water Levels in the basins of Lower Mahi, Lower Narmada, Lower Tapi and Damanganga. Rivers Narmada, Tapi, Damanganga are likely to rise rapidly in association with rains forecasted for next 4-5 days. Madhuban Dam in Valsad District is likely to get heavy inflows due to the forecasted rainfall. At present, the Dam has storage of 67.09%. Close watch is to be maintained and releases if any has to be done with due care and after informing all downstream districts including Union Territories of Daman. Other Dams in this region such as Kadana Dam on river Mahi, Panam Dam on river Panam, Sardar Sarovar Dam on river Narmada, Ukai Dam on river Tapi have storage of 31.03%, 39.21%, 51.94% and 70.65% storage respectively. Hatnur Dam in Jalgaon District of Maharashtra is likely to get an inflow of around 1850 cumec till today night and Ukai Dam is also expected to receive around 1750 cumec till tomorrow morning. Due to forecast of extremely heavy rain in their catchment, there is likelihood of sudden rise in inflows which may have to be regulated properly following the rule curves and Standard Operating Procedures (SOP) after informing all downstream Districts well in advance.

Heavy to Very Heavy rain has been forecasted in the Districts of Palghar, Thane, Nasik, Pune, Satara, Raigad, Ratnagiri, Sindhudurg and Kolhapur of Maharashtra. Forecast of heavy to very heavy rains in Northern Konkan coast of Maharashtra may result in rise of water levels in the West Flowing Rivers between Tapi and Tadri.

Heavy to Very Heavy at few places with extremely heavy rainfall at isolated places are likely in Palghar, Thane, Nasik, Pune, Satara, Raigad, Ratnagiri, Sindhudurg and Kolhapur Districts of Maharashtra and in the Districts of South & North Goa. As the rainfall of higher intensity is likely to continue for at least 1-2 days, there is likelihood of rise in levels of rivers along the West Coast in Maharashtra & Goa. Since most of the dams in the region have storage of the order of 65 to 98% of their Full capacity, hence all the dams should exercise caution. Khadakwasla Dam in Pune District attained its FRL and is releasing excess inflow in to river while Veer Dam in Pune District which is 99% full and is releasing around 630 cumec in river Nira. All these releases will be increasing the level of river Bhima. Ujni Dam in Sholapur District is only 35% full, the increase flow in Bhima will increase the storage in Ujni dam.

Necessary precautions have to be taken in Road and Rail Bridges which pass through these areas as they are prone to submergence. Care should be taken to regulate road and rail traffic to avoid any incidents.

2.2.2 Rajasthan & Madhya Pradesh

Due to forecast of heavy to very heavy rainfall in East Rajasthan and West Madhya Pradesh for next 3-4 days, there is likelihood of rise in Water Levels in rivers such as Chambal, Mahi, Sabarmati, Kalisindh, Banas (both East and West Flowing), etc. Most of the dams in these rivers are having storage between 35 to 70%, care should be exercised to monitor the situation very closely. Releases if any has to be done after advance information to all concerned downstream districts and lower riparian States. Inflows have started increasing in Panchana Dam, Parwati Pickup Weir and Parwan Pickup Weir and have crossed the threshold limit. Inflow Forecast have been issued for these reservoirs in Rajasthan.

2.2.3 Himachal Pradesh, Punjab. Haryana, Uttarakhand, Uttar Pradesh

Due to forecast of heavy to very heavy rainfall in these States in the next 2 days, there is likelihood of rise in Water Levels in rivers such as Sutlej, Ravi, Beas, Ghaggar, Yamuna, Bhagirathi, Alaknanda, Ganga, Ramganga, Sarda, Sarju and Ghaghra. There is likelihood of flash floods in some of the hill 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.

2.2.4 Odisha, Andhra Pradesh & Telangana

Heavy to very heavy falls are likely over Odisha, Coastal Andhra Pradesh and Telangana during next 2 days. River Godavari is also getting good flows due to rain in Chhattisgarh, Maharashtra and Telangana. Polavaram project on River Godavari in Andhra Pradesh is getting around 24000 cumec and Laxmi Barrage on River Godavari is getting inflows of

around 5400 cumec. There is forecast of heavy to very heavy rainfall in Telangana and Andhra Pradesh also for next 2-3 days. Close watch is to be maintained. River Indravathi is likely to rise in Nowrangpur District in Odisha and in Bastar, Dantewada, Narayanpur and Bijapur Districts in Chhattisgarh. River Sabari is likely to rise rapidly in Koraput, Malkangiri Districts of Odisha and in Sukma District in Chhattisgarh and East Godavari District of Andhra Pradesh. Inflows into Balimela, Upper Kolab, Machhkund and Upper Indravathi Projects are also likely to rise but the storages in these reservoir 25 to 52% only and the inflows will help in increasing the storage in these reservoirs.

River Krishna is also likely to get heavy inflows into P D Jurala in Jogulamba Gadwal District of Telangana and to Srisailam Dam in Kurnool District of Andhra Pradesh. Since the dam is about 58% filled, it is expected that with inflows for next 4 to 5 days may increase its storage substantially. Due to local rainfall in downstream areas of river Krishna in Khammam, Nalgonda and Krishna Districts of Telangana and Andhra Pradesh, river Krishna at Prakasam Barrage is getting inflows above its threshold limit and inflow forecasts have been issued for the same.

It is advised that close watch has to be maintained for increased inflows likely during the next 2-3 days. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure.

2.2.5 Karnataka & Tamilnadu

Due to continuous inflows from the previous spell of rainfall, most of the dams in Cauvery Basin have reached very close to 90-97% storage. Any local rainfall in association with convective activity may also help in adding to the flow in these basins. Round the clock watch has to be maintained for proper reservoir operation and information to all downstream Districts as well as to lower riparian States well in advance. The releases from Kabini and Krishna Raja Sagar through river are becoming inflows into Mettur Dam which is likely to get slow inflows for next 3-4 days. However it is much below its FRL.

Most of the dams in Krishna Basin are also having storage between 80 to 97%. Hidkal Dam on River Ghataprabha is filled to 97% of its full capacity and hence close watch has to be maintained for any increased inflows likely due to the very heavy rainfall forecasted in Madhya Maharashtra during the next 2-3 days.

Due to river flows from upstream areas of river Krishna, Almatti Dam and Narayanpur Dam are getting heavy inflows and since these dams are filled around 90 to 92% of the capacity, both the dams are releasing the excess flow. There is forecast of heavy to very heavy rainfall in Madhya Maharashtra for next 4-5 days. Due to this there is likelihood of rise in water levels in Upper Krishna Basin in the upstream of Almatti Dam. 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.

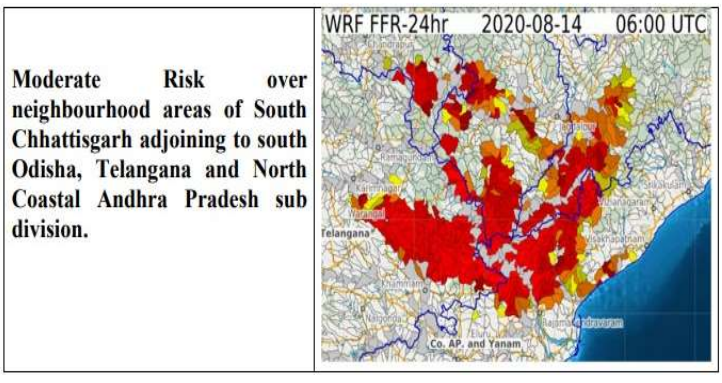
It is advised that close watch has to be maintained for increased inflows likely during the next 2-3 days. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure.

2.2.6 Bihar, Jharkhand and Gangetic West Bengal

Many of the rivers in Bihar continue to flow in Severe to Above Normal Flood Situation with falling trend. The situation will continue for another 3-4 days.

2.2.7 Flash Flood Guidance

Flash Flood Guidance for next 24 hours as issued by IMD is appended.



2.2.8 Storage Position in Dams where Inflow forecast is being issued by CWC as on 14th August 2020

S. No.	River	Station	State	Storage present as % full reservoir level	Warning for Heavy rainfall for 24 hours
1	Puma	Yeldari Dam	Maharashtra	99.59	Yes
2	Nira	Veer Dam	Maharashtra	98.8	Yes
3	Cauvery	Krishnarajasagar	Karnataka	98	No
4	Kabini	Kabini Dam	Karnataka	97	No
5	Ghataprabha	Hidkal Dam	Karnataka	97	No
6	Hemavathy	Hemavathy Dam	Karnataka	97	No
7	Warana	Warana Dam	Maharashtra	95.79	Yes
8	Koyna	Koyna Dam	Maharashtra	95.67	Yes
9	Wardha	Upper Wardha Project	Maharashtra	95.16	Yes
10	Harangi	Harangi Dam	Karnataka	95	No
11	Pench	Totladoh Project	Madhya Pradesh	93.39	Yes
12	Krishna	Almatti Dam	Karnataka	92	No
13	Tungabhadra	Tungabhadra Dam	Karnataka	91	No
14	Krishna	Narayanpur Dam	Karnataka	90	No
15	Hasdeo	Bango Dam	Chattisgarh	89.91	Yes
16	Bhadra	Bhadra Dam	Karnataka	85	No
17	Sone	Bansagar Dam	Madhya Pradesh	82	Yes
18	Malaprabha	Malaprabha Dam	Karnataka	81	No
19	Wainganga	Upper Wainganga Project	Madhya Pradesh	79	Yes
20	Sindhpana	Manjlegaon	Maharashtra	78.92	Yes
21	Kaddamvagu	Kaddam Dam	Telangana	77.42	Yes
22	Krishna	P D Jurala Project	Telangana	74	Yes
23	Kalisindh	Kalisindh Dam	Rajasthan	72.92	Yes
24	Chambal	Rana Pratap Sagar	Rajasthan	72.64	Yes
25	Tapi	Ukai Dam	Gujarat	70.65	Yes
26	Som Kamla	Som Kamla Amba Dam	Rajasthan	70.63	Yes

Close watch has to be maintained at these reservoirs wherever heavy rainfall (Yellow) and Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) Warnings are given in the last column of Table above.

Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts for next 4-5 days. Breaches in Embankment if any may aggravate further flood like situation which should be monitored and all efforts to fill any such breaches should be done at the earliest. Maximum vigil has to be maintained along the rail and road tracks and bridges on these rivers and regulate traffic suitably to avoid any incident. Submergence of low-level cause ways along rivers and railway tracks along flashy rivers is to be monitored closely especially along Western Ghat areas. All district administrations can take effective measures taking into account the prevailing Covid-19 situation in relief camps being set up in these districts.

3. Flood Alerted Districts

Gujarat: Districts along Narmada, Tapi, Damanganga, Mahi
Madhya Pradesh: Districts along Narmada and Upper Chambal, Wainganga, Tapi
Rajasthan: Districts along Chambal and its tributaries, Mahi
Maharashtra: Districts along West Flowing Rivers in Thane, Godavari, Damanganga, Krishna & its tributaries
Telangana: Districts along Godavari and its tributaries
Chhattisgarh: Districts along Indravathi and its tributaries, Mahanadi & its tributaries
Odisha: Districts along Indravathi, Sabari, Mahanadi and its tributaries