



# Central Water Commission

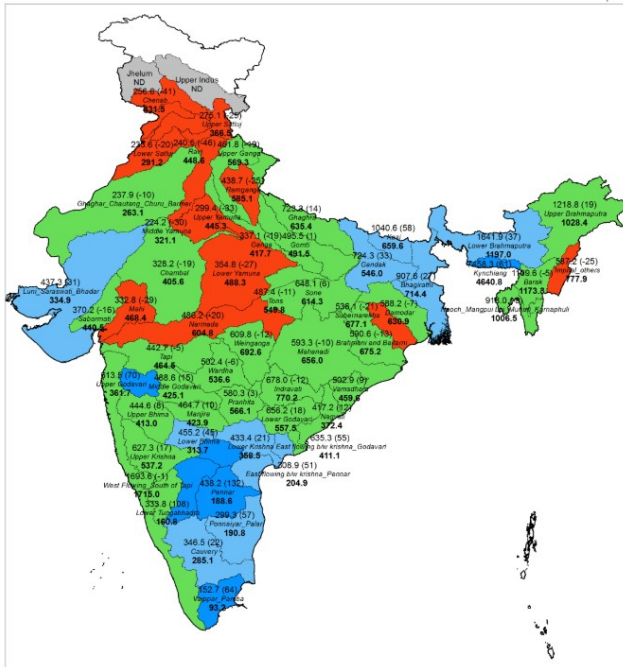
## Daily Flood Situation Report cum Advisories

10-08-2020

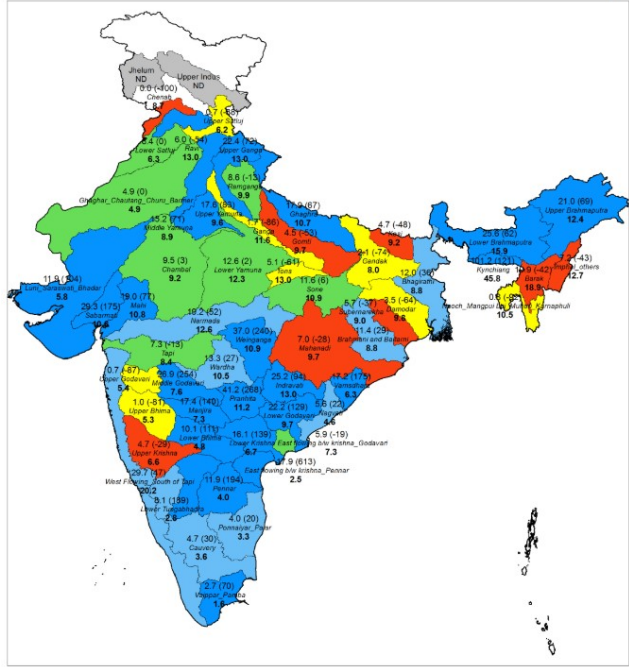
### 1.0 IMD information

### 1.1 Basin wise departure from normal of cumulative and daily rainfall

RIVER BASIN RAINFALL MAP : INDIA  
Period : 01-06-2020 To 10-08-2020

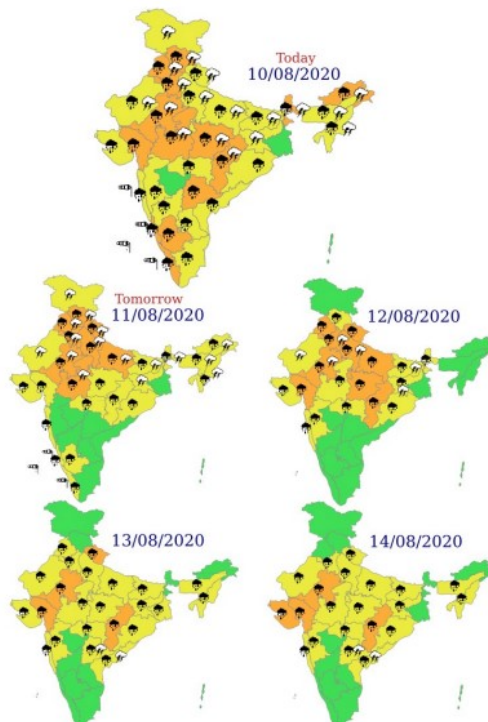


RIVER BASIN RAINFALL MAP : INDIA  
Date : 10-08-2020



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 10<sup>th</sup> August 2020 (Midday) by IMD



## 2.0 CWC inferences

### 2.1 Flood Situation on 10<sup>th</sup> August 2020

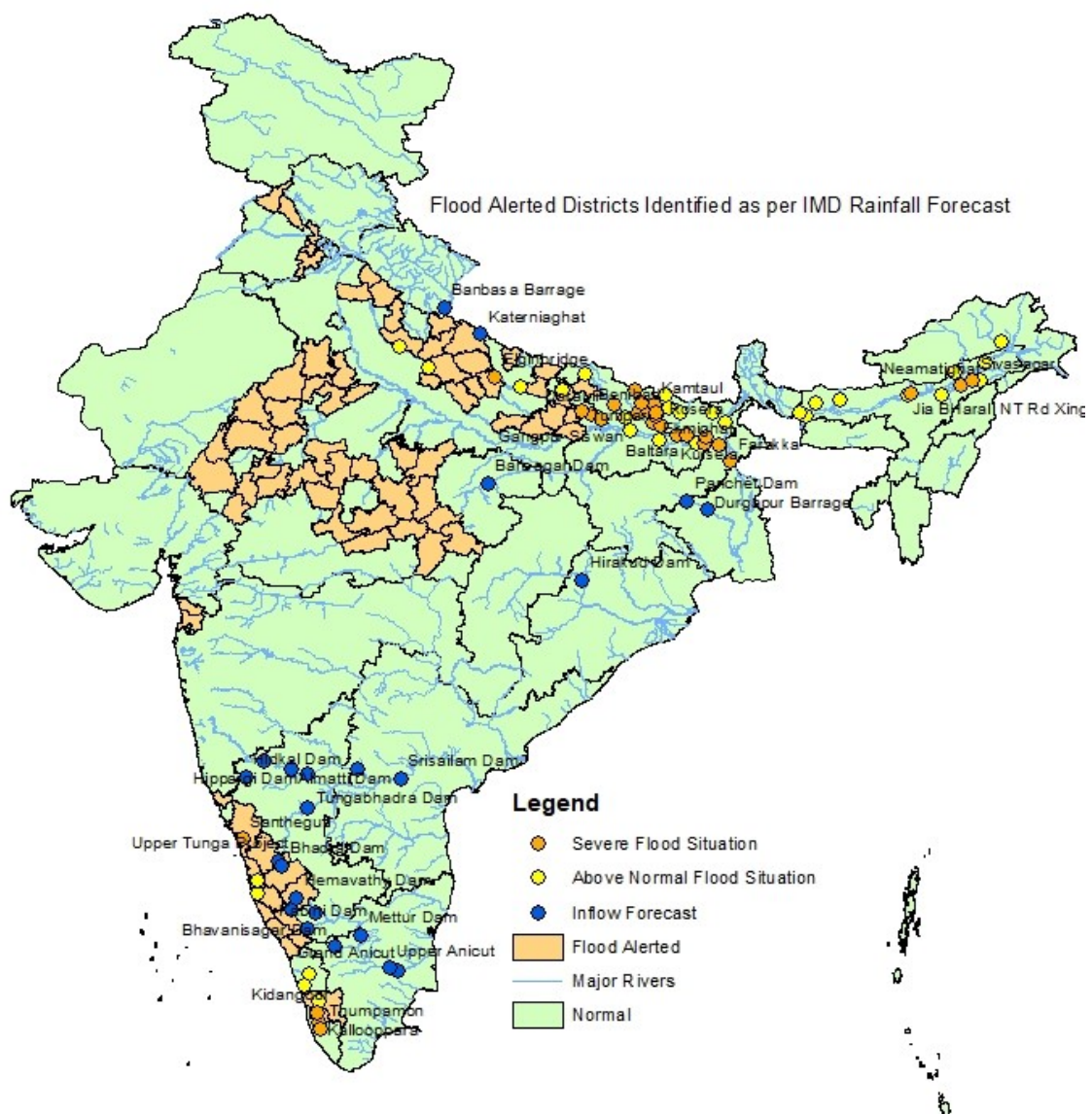
#### 2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 10<sup>th</sup> August 2020, 27 Stations (16 in Bihar, 3 in Assam, 3 in Kerala, 2 in Uttar Pradesh and 1 each in Jharkhand, Karnataka and West Bengal) are flowing in Severe Flood Situation and 29 stations (9 in Assam, 9 in Bihar, 5 in Uttar Pradesh, 3 in Kerala, 2 in Karnataka and 1 in Arunachal Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 24 Barrages and Dams (11 in Karnataka, 4 in Tamilnadu, 2 in Telangana and 1 each in Uttar Pradesh, Jharkhand, Madhya Pradesh, Andhra Pradesh, Odisha, Uttarakhand and West Bengal).

PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
<b>A</b>	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	<b>0</b>
<b>B</b>	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	<b>27</b>
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	<b>29</b>
Total number of sites above Warning Level ( A+B+C)		<b>56</b>
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)		<b>24</b>

Details can be seen in link :- [http://cwc.gov.in/sites/default/files/cfcr-cwcdfb10082020\\_5.pdf](http://cwc.gov.in/sites/default/files/cfcr-cwcdfb10082020_5.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 to very heavy rainfall at isolated places very likely over major parts of northwest India (Western Himalayan region, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and East Rajasthan) during 10<sup>th</sup>-12<sup>th</sup> August.
- Fairly widespread to widespread rainfall with heavy to very heavy rainfall at isolated places are also very likely over parts of Madhya Pradesh and Gujarat region during 10<sup>th</sup>-14<sup>th</sup> August with likely further enhancement of rainfall intensity over north Gujarat and southwest Madhya Pradesh on 13<sup>th</sup> & 14<sup>th</sup> August.
- Strength of monsoon westerlies over southern parts of Arabian Sea has reduced since 09<sup>th</sup> August and is likely to reduce further during next 5 days. Under this scenario, rainfall activity is very likely to reduce further over Kerala and Karnataka during next 5 days.

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

### 2.2.1 West Coast & Ghat Area along West Coast

#### Karnataka, Telangana, Andhra Pradesh & Tamilnadu

Rainfall activity is very likely to reduce further over Kerala and Karnataka during next 5 days.

The inflows into all the dams such as Kabini, Harangi and Hemavathi have reduced significantly and accordingly the outflows from these dams have been reduced. River Cauvery at Kollegal in Chamarajanagar District is flowing in Severe Flood Situation with falling trend. The major reservoir levels in Karnataka are as given in the table below:

Karnataka State Natural Disaster Monitoring Centre (KSNDMC)														
Major Reservoir - Level, Storage, Flows - 10-08-2020														
Sl. No.	Name of the Reservoir	Reservoir Level Information (Meters)			Capacity in TMC				Inflow/Outflow details					
		FRL in Meter above MSL	Present RL as on 10/08/2020	Last Year RL as on 10/08/2019	Gross Capacity	Present Storage as on 10/08/2020	Last year Storage as on 10/08/2019	% of Present Storage = Col. 7/ Col. 6	Daily Inflows (in cusecs) on 10/08/2020	Daily Outflows (in cusecs) on 10/08/2020			Cumulative Inflows from 01.06.2020 (TMC)	Cumulative Outflows from 01.06.2020 (TMC)
		3	4	5	6	7	8	9	10	River	Canal	Total	14	15
1	Linganamakki	554.44	546.25	551.23	151.75	76.87	117.55	51	38,616			0	76	31
2	Supa	564.00	542.70	559.58	145.33	69.30	126.96	48	21,885			0	50	22
3	Varahi	594.36	581.56	583.40	31.10	11.56	13.71	37	4,884			0	11	3
	<b>Hydel</b>				328.18	157.73	258.22	48	65385			0	136	56
4	Harangi	871.42	870.60	870.07	8.50	7.34	6.77	86	9,177	2,633	200	2,833	12	8
5	Hemavathi	890.63	889.90	889.51	37.10	34.13	32.96	92	11,990	600	3,280	3,880	29	8
6	K.R.S.*	38.04	36.42	33.08	49.45	42.38	30.24	86	77,950	73,217	1,358	74,575	53	27
7	Kabini	696.16	695.44	695.92	19.52	17.67	18.62	91	41,676	18,292	600	18,892	42	32
	<b>Cauvery Basin</b>				114.57	101.51	88.59	89	1,37,560	91,509	5,438	96,947	124	62
8	Bhadra	657.76	654.08	653.38	71.54	56.56	54.05	79	18,331	152	2,750	2,902	38	4
9	Tungbhadra	497.74	495.38	495.76	100.86	72.44	76.38	72	1,16,827	0	8,514	8,514	76	9
10	Ghataprabha	662.94	661.61	662.01	51.00	47.15	48.21	92	25,939	0	3,429	3,429	43	5
11	Malaprabha	633.83	631.83	633.81	37.73	28.55	36.89	76	7,850	1164	1,400	2,564	21	5
12	Almatti	519.63	517.79	517.46	123.08	92.59	88.76	75	1,85,001	1,80,000	1,922	1,81,922	189	123
13	Narayanapura	492.25	491.10	488.75	33.31	27.64	19.17	83	1,91,211	1,80,505	6,437	1,86,942	125	114
	<b>Krishna Basin</b>				417.52	324.93	323.46	78	3,63,843	1,80,505	24,452	2,04,957	362	134
	<b>Total</b>				860.27	584.17	670.27	68	5,66,788	2,72,014	29,890	3,01,904	622	252

All the major reservoirs in Cauvery Basin namely Harangi, Hemavathi, Krishna Raja Sagar and Kabini are very near to their FRL and hence close watch has to be maintained for any increased inflows likely during the next 2-3 days due to localized heavy rainfall in the catchment areas.

**Hidkal Dam on River Ghataprabha is filled to 92% of its full capacity with no releases from the dam and hence close watch has to be maintained for any increased inflows likely during the next 2-3 days.**

River Cauvery at Biligundulu in Dharmapuri District in Tamilnadu is also flowing in Severe Flood Situation and has slowly started falling. The peak inflows are being recorded in Mettur Dam in Salem District today afterwards it is likely to fall as the upstream levels have started falling rapidly due to reduced rainfall. Inflows into Bhavanisagar Dam on river Bhavani in Erode District of Tamilnadu has also reduced. Since rainfall is expected to continue but with reduced intensity, the flood situation may continue for another 1-2 days. Close watch is to be maintained.

TB Dam in Ballari District is getting inflow of around 3308 cumec. Inflows are likely to reduce as the rains have reduced in the upper catchment. Since dam is 72% filled, no spillage is expected.

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 80% of the capacity, both the dams are releasing the excess flow. This is being realized at P D Jurala and Srisailam Dams in Telangana and Andhra Pradesh respectively.

**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.**

#### Kerala

Due to continuing heavy rain in many of the districts of Kerala, Rivers Periyar, Pamba, Bharathapuzha, Kuttyadi flowed in Severe Flood Situation but has started falling slowly. Since rainfall is expected to continue with reduced intensity, the flood situation in these rivers is expected to continue in Above Normal to Severe Flood Situation. Idukki and Edamalayar Dam also received heavy inflows in the last two days. However only 57% of the capacity is filled in Idukki Dam and 50.16% in

Edamalar Dam and hence no spillage is expected. Many of the small dams having storage less than 100 MCM has got filled near to FRL in this spell of rain. Such dams are also releasing small quantities water to the downstream which is not allowing the water level in Main River to fall below warning level. These small reservoirs are also to be closely monitored by the concerned Project Authorities for any localised heavy rainfall due to thunderstorms and in case of release it should be intimated to all downstream areas.

### **2.2.2 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.

### **2.2.3 Madhya Pradesh, Rajasthan and Gujarat**

Heavy to very Heavy rainfall is expected over parts of Madhya Pradesh and Gujarat region during 10<sup>th</sup>-14<sup>th</sup> August. Since rainfall has been deficient in Madhya Pradesh, most of the dams are having less storage. However, since heavy rainfall has been given for Upper Chambal areas, close watch has to be maintained on dams in Chambal Basin. Similarly dams in Narmada are also having less storage as rainfall was deficient cumulatively. However, the ongoing rainfall for next 3-4 days can increase the storage in these dams.

### **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 Affected Districts**

**Bihar:** Purnia, Katihar, Araria, Madhubani, Darbhanga, Supaul, Khagaria, Sitamarhi, Muzaffarpur, Samastipur, Vaishali, Bhagalpur, Gopalganj, Siwan  
**Karnataka:** Kodagu, Hassan, Chikmagalur, Shivamogga, Uttara Kannada, Udupi and Dakshina Kannada  
**Kerala:** Wayanad, Idukki, Pathanamthitta, Palakkad, Kozhikode, Kottayam, Thrissur

## **4. Flood Alerted Districts**

**Karnataka:** Districts along West Flowing Rivers, Cauvery & its tributaries, Tungabhadra & its tributaries  
**Kerala:** Districts along river Periyar, Bharathapuzha, Pamba, Kabini, Valapatnam, Kuttyadi  
**Madhya Pradesh:** Districts along Narmada and Upper Chambal  
**Rajasthan:** Districts along Chambal and its tributaries.