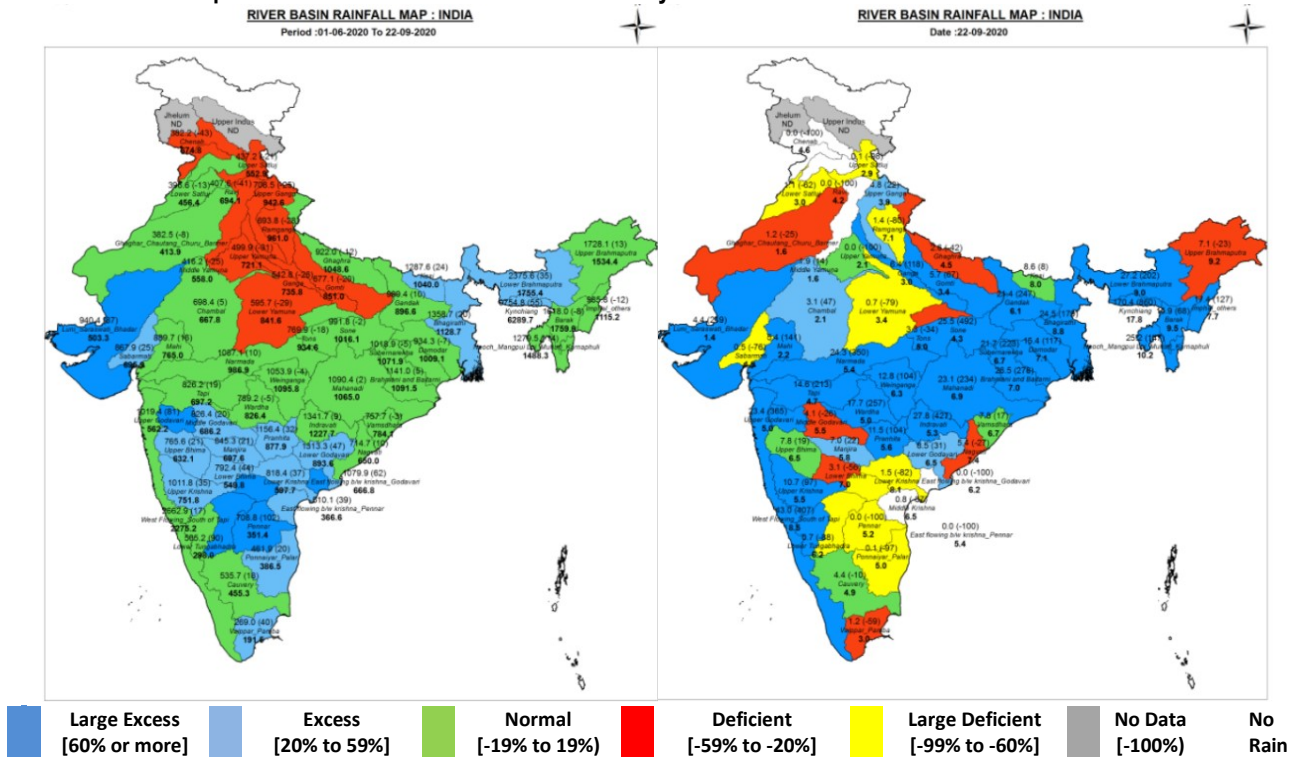




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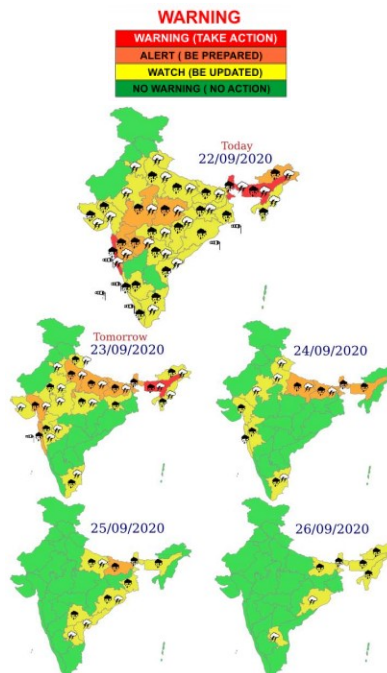
1.0 Rainfall Situation

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 22nd September, 2020 (Midday) by IMD



2.0 Flood Situation and Advisories

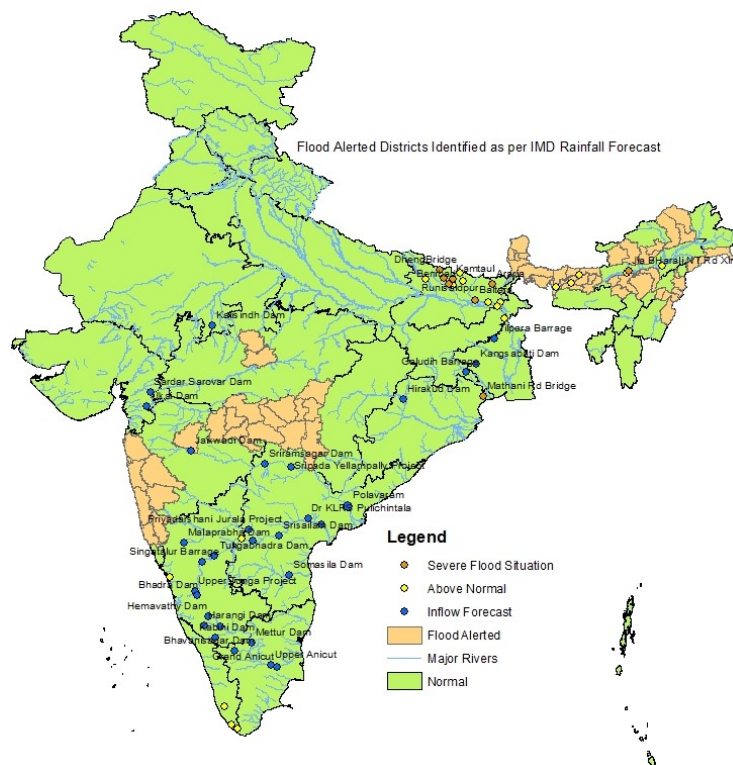
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 22nd September 2020, 8 Stations (6 in Bihar and 1 each in Assam & Odisha) are flowing in Severe Flood Situation and 19 stations (7 in Bihar, 5 in Assam, 2 in Kerala, 1 each in Jharkhand, Andhra Pradesh, Karnataka, Tamilnadu & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 31 Barrages & Dams (9 in Karnataka, 6 in Andhra Pradesh, 4 each in Telangana & Tamil Nadu, 2 each in Gujarat & West Bengal and 1 each in Jharkhand, Odisha, Maharashtra and Rajasthan).

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))	8
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	19
Total number of sites above Warning Level (A+B+C)		27
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)		31

Details can be seen in link- http://cwc.gov.in/sites/default/files/dfb202022092020_5.pdf

2.2 Flood Situation Map



2.3 CWC Advisories

- Isolated extremely heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim and Konkan & Goa on 22nd, over East Uttar Pradesh on 23rd and over Assam & Meghalaya on 22nd - 23rd September 2020.
- Isolated heavy to very heavy rainfall is very likely over Madhya Pradesh, Madhya Maharashtra, Marathwada on 22nd; over Konkan & Goa on 22nd to 23rd; over West Uttar Pradesh on 23rd; over East Uttar Pradesh on 23rd to 24th and over Bihar on 23rd-25th September, 2020.
- Isolated heavy to very heavy rainfall is likely over Arunachal Pradesh on 22nd; over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya on 22nd - 24th September.

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

Due to forecasted Extremely Heavy Rainfall in Sub-Himalayan West Bengal, Sikkim, Assam & Meghalaya from 22nd to 23rd, increase in water levels in Brahmaputra & its tributaries including Teesta and Barak & its tributaries during the next 3-4 days. Extremely Heavy Rainfall has been forecasted in East Uttar Pradesh on 23rd and Heavy to very heavy rainfall in Bihar during 23rd to 25th September which may see an increase in water level in Northern Tributaries of river Ganga in Bihar especially in the basins of Mahananda, Kosi, Bagmati, Adhwara and in Ghaghra, Rapti basins in Uttar Pradesh.

Forecasted rainfall may again increase the flow in West Flowing Rivers in Konkan & Goa, Madhya Maharashtra and in Upper Krishna, Upper Bhima, Upper Godavari Basins. Since most of the reservoirs in these basins are very near to FRL, SOP for release from reservoirs has to be followed.

River Tungabhadra at Mantralayam in **Kurnool** District of Andhra Pradesh has crossed Warning Level and is giving additional inflows to Srisailem Dam in Kurnool District. Since most of the dams are already near FRL or at FRL, releases have to be done as per standard operating procedure. Close watch is to be maintained.

Due to heavy rainfall in these regions the dams in Maharashtra in Godavari Basin are getting increased inflows. River Godavari is likely to have increased flows upstream of **Sriramsagar, Sripada Yellampally** Dams in Telangana. These dams are also likely to release the excess flow which will be inflows into **Laxmi Barrage** on river Godavari in **Jaishankar Bhupalpalle** District and accordingly there will be increase in water levels downstream of Kaleshwaram but are likely to flow below Warning level.

Heavy rainfall occurred in Upper Cauvery Basin due to which River Cauvery at Kollegal in **Chamarajanagar district** of Karnataka continues to flow in Severe Flood Situation. River is flowing very near to Danger Level in Biligundulu in **Dharmapuri District** in Tamilnadu and the flow downstream is being released in Mettur Dam in **Salem District** which is expected to get around 70,000 cusec of inflow till tomorrow morning and continue to get between 50,000 to 60,000 cusec for next 2 days before falling. Bhavanisagar Dam in **Erode District** of Tamilnadu is getting inflows above threshold. Since most of the reservoirs in Cauvery Basin is at very near to FRL, close watch is to be maintained.

Impact Based Actions

Strict vigil is to be maintained in all the above areas for next 3-4 days. It is advised that close watch has to be maintained for increased inflows in dams. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure with advance intimation to downstream 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. Storage Position in Dams where Inflow forecast is being issued by CWC as on 22nd September 2020

#	River	Station	State	Present Gross Storage (%)	Rainfall Warning
1	Nira	Veer Dam	Maharashtra	100	Yes
2	Bhima	Ujjani Dam	Maharashtra	100	Yes
3	Betwa	Rajghat Dam	Madhya Pradesh	100	Yes
4	Ghataprabha	Hidkal Dam	Karnataka	100	No
5	Narmada	Bargi Dam	Madhya Pradesh	100	Yes
6	Narmada	Tawa Dam	Madhya Pradesh	100	Yes
7	Wardha	Upper Wardha Project	Maharashtra	100	Yes
8	Penganga	Issapur Project	Maharashtra	100	Yes
9	Warana	Warana Dam	Maharashtra	100	Yes
10	Koyna	Koyna Dam	Maharashtra	100	Yes
11	Krishna	Almatti Dam	Karnataka	100	No
12	Sabarmati	Dharoi Dam	Gujarat	99.94	Yes
13	Mahi	Kadana Dam	Gujarat	99.59	Yes
14	Purna	Yeldari Dam	Maharashtra	99.42	Yes
15	Mula	Mula Dam	Maharashtra	99.05	Yes
16	Mahi	Mahi Bajajsagar Dam	Rajasthan	98.84	No
17	Sindhpana	Manjlegaon	Maharashtra	98.57	Yes
18	Bhadra	Bhadra Dam	Karnataka	98	Yes
19	Cauvery	Krishnarajasagar	Karnataka	98	Yes
20	Narmada	Barna Dam	Madhya Pradesh	98	Yes
21	Krishna	Narayanpur Dam	Karnataka	98	No
22	Som Kamla	Som Kamla Amba Dam	Rajasthan	97.99	No
23	Godavari	Jaikwadi Dam	Maharashtra	97.74	Yes
24	Pench	Totladoh Project	Maharashtra	97.3	Yes
25	Krishna	Srisaillam Dam	Andhra Pradesh	97	No
26	Tapi	Ukai Dam	Gujarat	96.73	Yes
27	Kalisindh	Kalisindh Dam	Rajasthan	96.73	No
28	Harangi	Harangi Dam	Karnataka	96	Yes
29	Krishna	Dr K L R S Pulichintala Dam	Andhra Pradesh	96	Yes
30	Narmada	Indira Sagar Dam	Madhya Pradesh	96	Yes
31	Malaprabha	Malaprabha Dam	Karnataka	96	No
32	Hemavathy	Hemavathy Dam	Karnataka	96	Yes
33	Musi	Musi Project	Telangana	96	Yes
34	Kaddamvagu	Kaddam Dam	Telangana	95.92	Yes
35	Narmada	Sardar Sarovar Dam	Gujarat	95.75	Yes
36	Chambal	Rana Pratap Sagar	Rajasthan	95.69	No
37	Mahanadi	Hirakud Dam	Odisha	95.5	Yes
38	Kabini	Kabini Dam	Karnataka	95	Yes
39	Tungabhadra	Tungabhadra Dam	Karnataka	95	Yes
40	North Pennar	Somasila Dam	Andhra Pradesh	94.05	Yes
41	Damanganga	Madhuban Dam	Gujarat	93.15	Yes
42	Sone	Bansagar Dam	Madhya Pradesh	93	Yes
43	Godavari	Sriramasagar	Telangana	92.31	Yes
44	Wainganga	Upper Wainganga Project	Madhya Pradesh	91.57	Yes
45	Bhavani	Bhavani Sagar	Tamil Nadu	90.91	Yes
46	Gomukanadi	Gomukhi Dam	Tamil Nadu	87.43	Yes
47	Godavari	SripadaYellampally Dam	Telangana	87.28	Yes
48	Chambal	Gandhisagar Dam	Madhya Pradesh	87	Yes
49	Brahmani	Rengali Dam	Odisha	86.3	Yes
50	Krishna	Priyadarshini Jurala Project	Telangana	86	Yes

51	Gambhiri	Panchana Dam	Rajasthan	81.48	No
52	Edamalayar	Idamalayar	Kerala	81.27	Yes
53	Machhkund	Machhkund Project	Odisha	78.35	Yes
54	Periyar	Idduki Dam	Kerala	78.05	Yes
55	Parwati	Parwati Dam	Rajasthan	75.89	No
56	Panam	Panam Dam	Gujarat	75.74	Yes
57	Mej	Gudha Dam	Rajasthan	73.19	No
58	Tapi	Hathnur Dam	Maharashtra	70.98	Yes
59	Indravathi	Upper Indravathi Project	Odisha	70.04	Yes

Reservoirs shown in red are having gross storage greater than 90%, reservoirs shown in orange are having gross storage greater than 75% and the reservoirs shown in yellow are having gross storage greater than 70%. Close watch has to be maintained at these reservoirs wherever heavy rainfall (Yellow) and Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) warning in next 24 hours are given (last column of Table above).