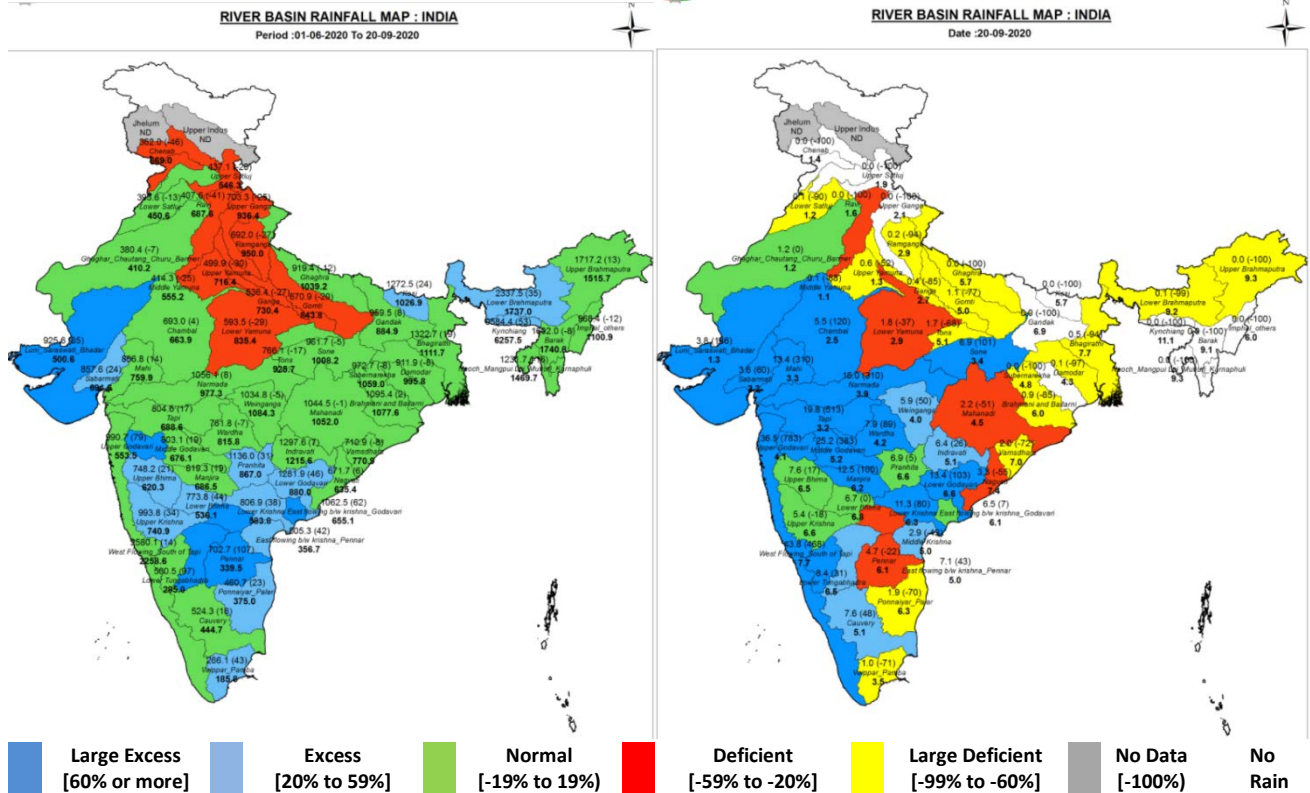




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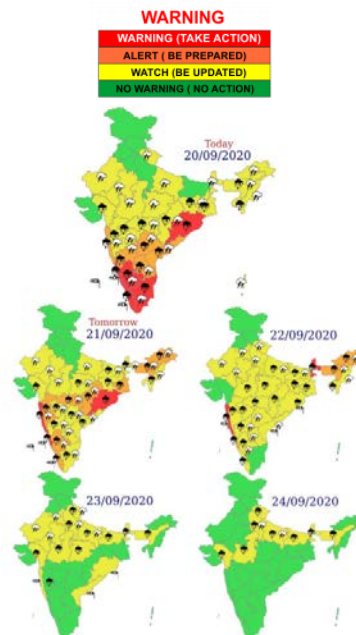
1.0 Rainfall Situation

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 20th September, 2020 (Midday) by IMD



2.0 Flood Situation and Advisories

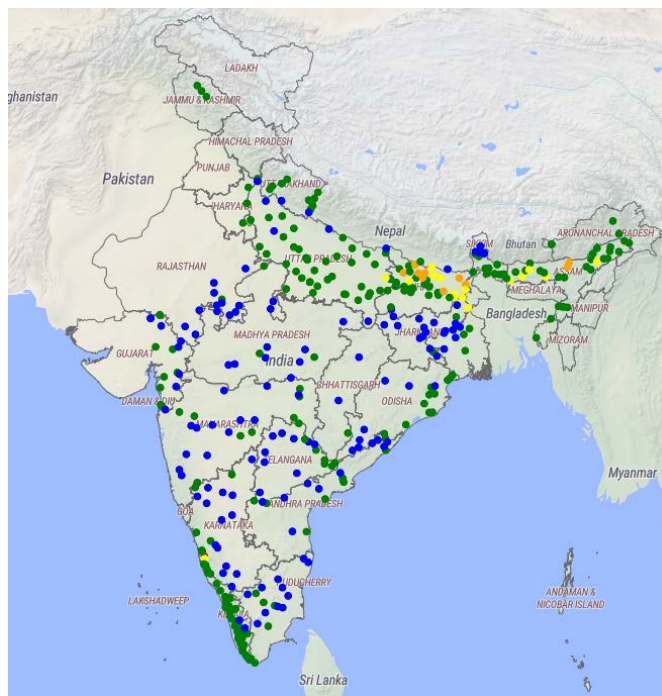
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 20th September 2020, 9 Stations (8 in Bihar and 1 in Karnataka) are flowing in Severe Flood Situation and 22 stations (7 in Assam, 8 in Bihar, 5 in Karnataka, 1 each in West Bengal & Jharkhand) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 28 Barrages & Dams (8 in Karnataka, 5 in Andhra Pradesh, 4 in Telangana, 3 in Tamil Nadu, 2 each in Jharkhand & West Bengal and 1 in Gujarat, Maharashtra, Kerala & 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))	9
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	22
Total number of sites above Warning Level (A+B+C)		31
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)		28

Details can be seen in link-http://cwc.gov.in/sites/default/files/dfb202020092020_5.pdf

2.2 Flood Situation Map



2.3 CWC Advisories

- Isolated heavy to very heavy rainfall with extremely heavy falls very likely over Odisha on 20th & 21st September; Isolated heavy falls are also likely over Gangetic West Bengal, Jharkhand, Bihar during 20th - 22nd September.
- Isolated heavy to very heavy falls likely over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana on 20th and Isolated heavy falls on 21st September, 2020.
- Heavy rainfall at a few places and very heavy rainfall with extremely heavy falls at isolated places very likely over Coastal Karnataka on 20th & 21st and over Kerala on 20th September, 2020; isolated heavy to very heavy rainfall with extremely heavy falls very likely over south Konkan & Goa during 20th - 22nd; over Ghat sections of South Interior Karnataka and Tamil Nadu on 20th September, 2020.
- Heavy to very heavy falls also likely over Sub-Himalayan West Bengal & Northeastern states during 21st - 23rd September. Isolated extremely heavy falls are likely over Arunachal Pradesh and Assam & Meghalaya on 21st & 22nd and over Sub-Himalayan West Bengal & Sikkim on 22nd September, 2020.

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

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

Due to extremely heavy rainfall in **Udupi** District, river **Swarna** at **Yennihole** flowed in Extreme Flood Situation from 20th September 0400 hrs to 1200 hrs, Now it has fallen below to Severe Flood Situation. Since rainfall is likely to continue for another 48 hours, strict vigil is to be maintained in West Flowing Rivers in Coastal Karnataka in the Districts of **Dakshina Kannada**, **Udupi** and **Uttara Kannada** District.

Heavy to very Heavy rain Occurred in **Kodagu**, **Hassan** District of Karnataka and **Wayanadu** District of Kerala which is increasing the inflows into most of the dams in Upper Cauvery Basin. Extremely heavy rain has been forecasted in Upper Cauvery, Harangi, Hemavathi and Kabini Basins in the Districts of **Kodagu**, **Hassan** in Karnataka and **Wayanadu** in Kerala for another 24 hours. Since most of the dams are already near FRL or at FRL, releases have to be done as per standard operating procedure.

Most of the dams in Krishna Basin are already at FRL or very near to FRL. Heavy to very Heavy rainfall with isolated extremely heavy rainfall has occurred in Upper Tungabhadra Basin. Gajanur Dam and Bhadra Dam are getting heavy inflows due to which these dams

are releasing excess flows as they are very near to FRL. Further due to continuing rainfall in North Interior Karnataka, Telangana & Rayalaseema, river Bhima is rising in **Kalaburagi** District of **Karnataka** and is flowing in Above Normal Flood Situation. This will provide additional inflows into P D Jurala Project in **Jogulamba Gadwal** District of Telangana. Since Jurala Project is nearly full, the releases from Jurala, Srisailem, Nagarjunasagar and Pulichintala Dams are likely for another 2-3 days. Further, river Tungabhadra is likely to rise in Middle and Lower Tungabhadra Sub-Basins in the Districts of **Bellary, Koppal, Raichur** in Karnataka and **Kurnool** District of Andhra Pradesh. This is likely to give additional inflows in to Srisailem Dam in Kurnool District.

Mula, Manjlegaon, Jaikwadi and Yeldari Dams in Maharashtra in Godavari Basin are almost full or near their FRL. Due to heavy rainfall in these regions the dams are getting heavy inflows. These dams are releasing the excess flows. Due to such releases, river Godavari is rising 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. The flows passing through this barrage is likely to rise the levels in Lower Godavari in **Mulug and Bhadradi** Districts.

Due to ongoing extreme to very heavy rainfall in its catchment areas in Kerala and in Coimbatore District of Tamilnadu, river Edamalar is rising and the inflows into Edamalar Dam in **Ernakulam** District has increased above threshold. Heavy to very heavy rainfall has been forecasted for another 48 hours in Kerala. This may increase the flows into Idukki and Edamalar Dams. Since the rainfall is expected to continue for 3-4 days, the inflows are likely to continue depending on the intensity of rainfall. Further rivers in North Kerala in the Districts of **Kasaragod, Kannur, Kozhikode Malappuram and Palakkad** Districts are also likely to rise.

Heavy to very heavy rain has been forecasted in Sub-Himalayan West Bengal & Sikkim and North Eastern States from 21st September onwards. This may increase the water levels in Brahmaputra & its tributaries including Tista and Barak & its tributaries during the next 3-4 days.

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 20th September 2020

#	River	Station	State	Present Gross Storage (%)	Rainfall Warning
1	Nira	Veer Dam	Maharashtra	100	Yes
2	Purna	Yeldari Dam	Maharashtra	100	Yes
3	Krishna	Almatti Dam	Karnataka	100	Yes
4	Bhima	Ujjani Dam	Maharashtra	100	Yes
5	Betwa	Rajghat Dam	Madhya Pradesh	100	No
6	Ghataprabha	Hidkal Dam	Karnataka	100	Yes
7	Narmada	Bargi Dam	Madhya Pradesh	100	No
8	Tungabhadra	Tungabhadra Dam	Karnataka	100	Yes
9	Narmada	Tawa Dam	Madhya Pradesh	100	No
10	Wardha	Upper Wardha Project	Maharashtra	100	Yes
11	Penganga	Issapur Project	Maharashtra	100	Yes
12	Warana	Warana Dam	Maharashtra	100	Yes
13	North Pennar	Somasila Dam	Andhra Pradesh	100	Yes
14	Sabarmati	Dharoi Dam	Gujarat	100	Yes
17	Kabini	Kabini Dam	Karnataka	100	Yes
19	Koyna	Koyna Dam	Maharashtra	100	Yes
20	Bhadra	Bhadra Dam	Karnataka	100	Yes
26	Krishna	Srisailem Dam	Andhra Pradesh	100	Yes
16	Cauvery	Krishnarajasagar	Karnataka	99.6	Yes
15	Mahi	Kadana Dam	Gujarat	99.59	Yes
18	Narmada	Barna Dam	Madhya Pradesh	99	No
23	Mahi	Mahi Bajajsagar Dam	Rajasthan	98.84	No
22	Sindhpana	Manjlegaon	Maharashtra	98.57	Yes
21	Harangi	Harangi Dam	Karnataka	98	Yes
24	Krishna	Narayanpur Dam	Karnataka	98	Yes
25	Krishna	Dr K L R S Pulichintala Dam	Andhra Pradesh	98	Yes
33	Som Kamla	Som Kamla Amba Dam	Rajasthan	97.99	No
29	Mula	Mula Dam	Maharashtra	97.41	Yes
30	Narmada	Sardar Sarovar Dam	Gujarat	97.39	Yes
27	Godavari	Jaikwadi Dam	Maharashtra	97.25	Yes
28	Pench	Totladoh Project	Maharashtra	97.15	Yes
35	Tapi	Ukai Dam	Gujarat	96.57	Yes
32	Kalisindh	Kalisindh Dam	Rajasthan	96.4	No
31	Chambal	Rana Pratap Sagar	Rajasthan	96.36	No
36	Kaddamvagu	Kaddam Dam	Telangana	96.19	Yes
34	Narmada	Indira Sagar Dam	Madhya Pradesh	96	No

37	Malaprabha	Malaprabha Dam	Karnataka	95	Yes
38	Sone	Bansagar Dam	Madhya Pradesh	93	No
39	Mahanadi	Hirakud Dam	Odisha	93	Yes
54	Musi	Musi Project	Telangana	93	Yes
40	Godavari	Sriramasagar	Telangana	92.31	Yes
41	Hemavathy	Hemavathy Dam	Karnataka	91	Yes
42	Wainganga	Upper Wainganga Project	Madhya Pradesh	90.47	No
46	Damanganga	Madhuban Dam	Gujarat	89.3	Yes
43	Bhavani	Bhavani Sagar	Tamil Nadu	88.01	Yes
44	Gomukanadi	Gomukhi Dam	Tamil Nadu	87.43	Yes
45	Chambal	Gandhisagar Dam	Madhya Pradesh	87	No
48	Brahmani	Rengali Dam	Odisha	86.5	Yes
50	Krishna	Priyadarshini Jurala Project	Telangana	83	Yes
49	Gambhiri	Panchana Dam	Rajasthan	82.13	No
51	Machhkund	Machhkund Project	Odisha	78.7	Yes
52	Parwati	Parwati Dam	Rajasthan	75.89	No
53	Panam	Panam Dam	Gujarat	75.25	Yes
47	Godavari	SripadaYellampally Dam	Telangana	75.15	Yes
56	Edamalayar	Idamalayar	Kerala	73.68	Yes
55	Mej	Gudha Dam	Rajasthan	73.19	No
57	Periyar	Idduki Dam	Kerala	73	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).