

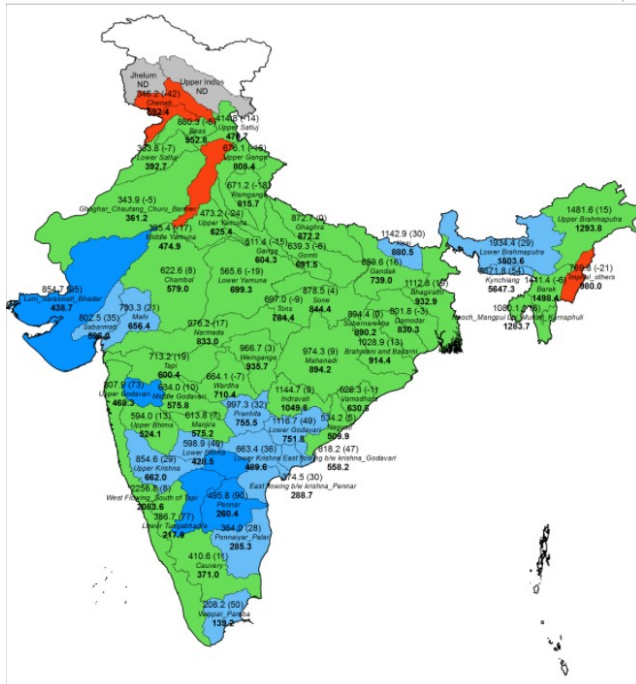


Central Water Commission
Daily Flood Situation Report cum Advisories
01-09-2020

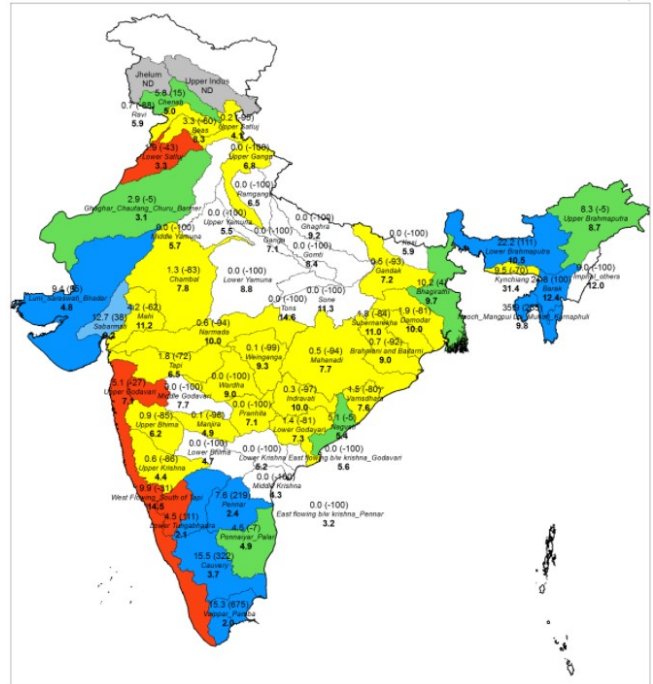
1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall

RIVER BASIN RAINFALL MAP : INDIA
 Period : 01-06-2020 To 01-09-2020

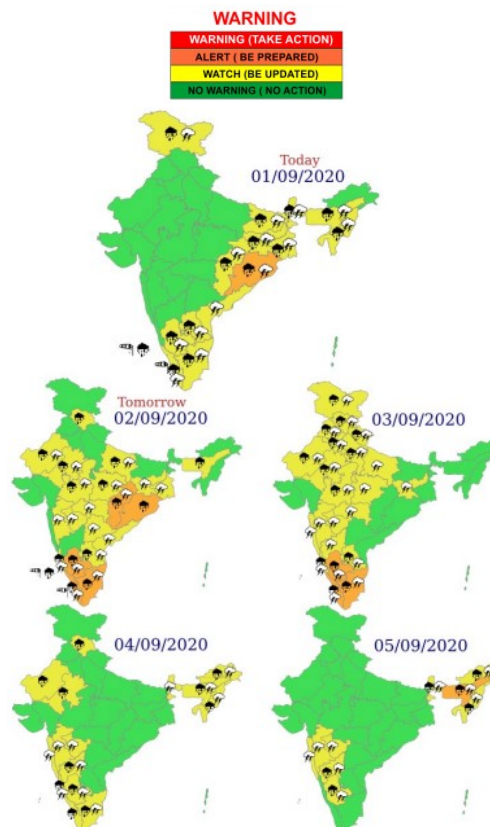


RIVER BASIN RAINFALL MAP : INDIA
 Date : 01-09-2020



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 1st September, 2020 (Midday) by IMD



2.0 Flood Situation and Advisories

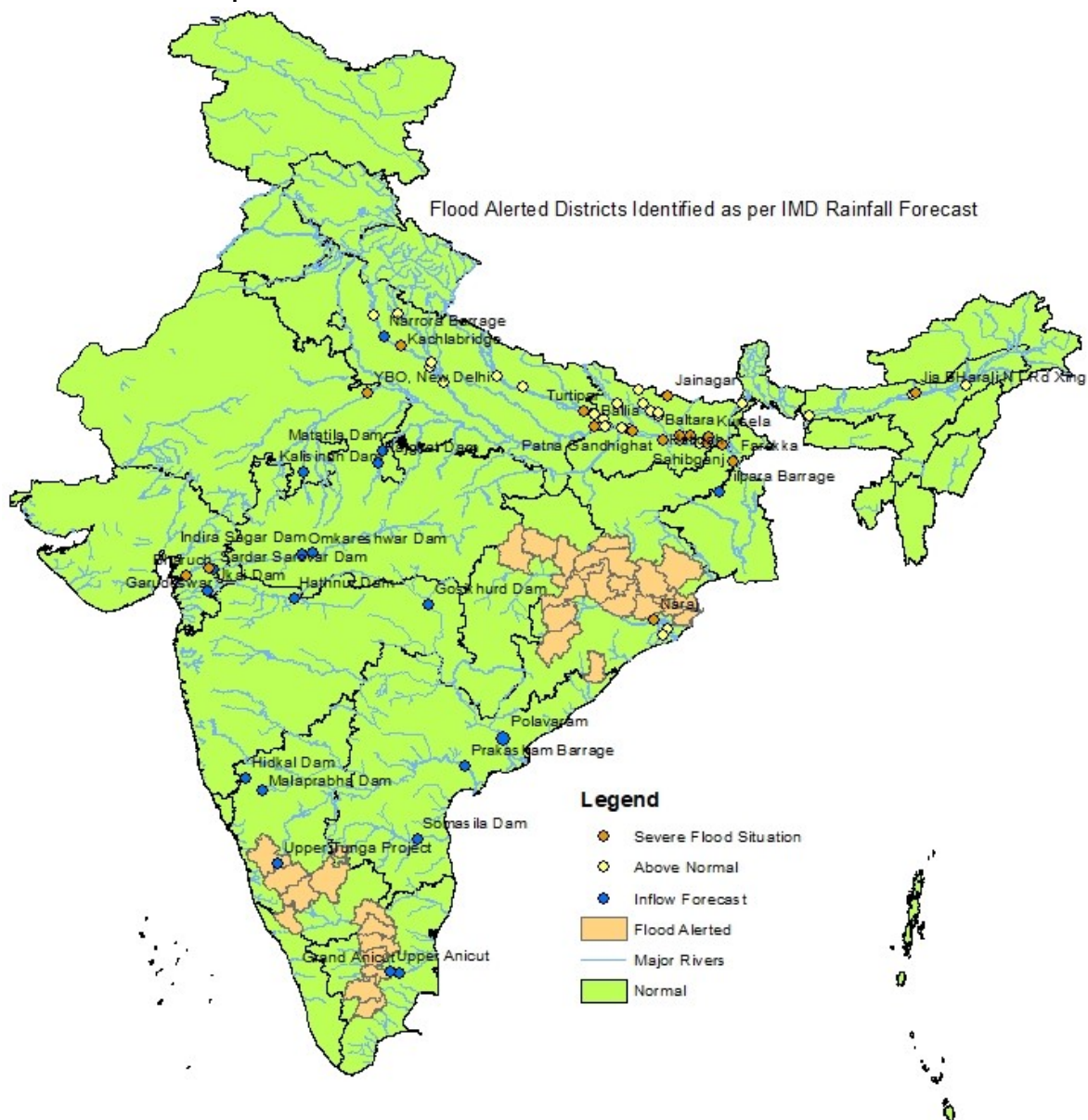
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 1st September 2020, 17 Stations (7 in Bihar, 3 in Uttar Pradesh, 2 in Gujarat and 1 each in Assam, Jharkhand, Rajasthan, Odisha & West Bengal) are flowing in Severe Flood Situation and 26 stations (14 in Bihar, 7 in Uttar Pradesh, 3 in Assam and 2 in Odisha) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 21 Barrages & Dams (3 each in Andhra Pradesh, Madhya Pradesh & Karnataka, 2 each in Gujarat, Maharashtra, Tamilnadu & Uttar Pradesh, 1 each in Odisha, Rajasthan, Telangana & West Bengal).

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))	17
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	26
Total number of sites above Warning Level (A+B+C)		43
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)		21

Details can be seen in link- http://cwc.gov.in/sites/default/files/cfrcwcdfb01092020_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

- Fairly widespread rainfall activity with heavy falls and thunderstorm & lightning at isolated places very likely over West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Chhattisgarh, Assam, Meghalaya, Mizoram and Tripura on today, the 01 September, 2020. Isolated heavy to very heavy falls also very likely over Odisha on 01st & 02nd September 2020.
- Under the influence of interaction between lower level easterly winds and mid-level westerly trough, Fairly widespread rainfall with Isolated heavy falls and thunderstorm & lightning very likely over Northwest India and Western Himalayan Region on 03rd September and over central India on 02nd & 3rd September, 2020.
- Fairly widespread to widespread rainfall with isolated heavy falls and thunderstorm & lightning very likely over Rayalaseema, coastal & south Interior Karnataka, Kerala and Tamilnadu during next 3-4 days. Isolated heavy to very heavy falls also very likely over south Interior Karnataka, Kerala and Tamilnadu on 02nd & 03rd September, 2020.

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

Rengali Dam on River Brahmani in Angul District in Odisha continues to flow above its FRL and presently is at 103.2% of its storage capacity. Today at 12:00 hrs, reservoir level was 123.83 m compared to FRL of 123.50 m; the inflow was 1165.3 cumec while the outflow was 665.26 cumec. There is no flood situation in the downstream at Jenapur in Jajapur District which is flowing 2.39 m below Warning Level. There is forecast of very heavy rainfall in Kendujar and Angul district of Odisha during the next 2 days. Close watch has to be maintained for any abrupt increase in inflows due to forecasted very heavy rainfall in the reservoir catchment area.

Live Storage Filling of Major Reservoirs as on 01-Sep-2020

HIRAKUD	RENGALI	BALIMELA	MACHHKUND	UPPER KOLAB	INDRAVATI	SALANDI
83.0%	103.2%	63.9%	73.3%	33.9%	61.8%	85.3%
Time:1200 hrs	Time:1200 hrs	Time:0800 hrs	Time:0800 hrs	Time:0800 hrs	Time:0800 hrs	Time:0600 hrs
Reservoir Level & position wrt. Full Reservoir Level						
RL: 625.77ft	RL: 123.83m	RL: 1496.5ft	RL: 2739.2ft	RL: 850.54m	RL: 636.86m	RL: 79.66m
(-) 4.23ft	(+) 0.33m	(-) 19.50ft	(-) 10.80ft	(-) 7.46m	(-) 5.14m	(-) 2.64m
Reservoir Inflow & Outflow						
I:390896Cusecs	I:1165.3Cumecs	I:277.99Cumecs	I:36.74Cumecs	I:59.27Cumecs	I:155.75Cumecs	I:97.22Cumecs
O:436001Cusecs	O:665.26Cumecs	O:182.96Cumecs	O:25.71Cumecs	O:56.18Cumecs	O:144.7Cumecs	O:28.31Cumecs
Live Storage capacity & Live Storage available						
Cap:482155 Ham	Cap:341371 Ham	Cap:267600 Ham	Cap:96993 Ham	Cap:93500 Ham	Cap:148550 Ham	Cap:55650 Ham
LS:400134 Ham	LS:352171 Ham	LS:171117 Ham	LS:71091 Ham	LS:31712.55 Ham	LS:91858 Ham	LS:47469 Ham

Source: <http://www.dowrodisa.gov.in/Flood/ReservoirGraph.htm>

Due to significant reduction in rainfall, River **Wainganga** has started falling at Bhandara & Pauni in **Bhandara District** of Maharashtra and now flowing below Warning Situation. Inflows are reducing in **Gosikhurd Project** on river **Wainganga** in **Bhandara District**. Excess flow which was released from Gosikhurd Project due to which river **Wainganga** continues to rise in **Gadchiroli District** of Maharashtra. Flood Monitoring Station of CWC at Ashti in Gadchiroli District is flowing 0.56 m below its HFL with rising trend. River **Wardha** is also contributing to flow in river **Wainganga** and the combined flow on river **Pranhita** is increasing the water level at Tekra in **Gadchiroli District**. The flow from river Pranhita is increasing the level on River Godavari. River Godavari at Kaleswaram in **Jayasankar Bhupalpalle District** of **Telangana** is flowing close to Warning Level and is likely to cross Warning Level. Inflow into **Laxmi Barrage** on river **Godavari** in **Jayasankar Bhupalpalle District** of **Telangana** is rising and the project is releasing all the inflows. This is increasing the level in river Godavari and it has started rising in **Mulug** and **Bhadradi Kothagudem Districts**. There is likelihood of river flowing in Above Normal Flood Situation in these Districts in Telangana.

Heavy inflows are still continuing in **Indirasagar, Omkareshwar** and **Sardar Sarovar Dam**. Releases from **Sardar Sarovar Dam** gave rise to Severe Flooding Situation in **Garudeshwar** in **Narmada District**, **Bharuch** in **Bharuch District** of **Gujarat**.

Due to reduction in rainfall Rivers **Mahanadi** & its tributaries in **Chhattisgarh** & **Odisha** are expected to slowly fall with reduction in inflows into major reservoirs. However, in view of the heavy to very heavy rainfall forecast issued by IMD for next 2 days, close watch is to be maintained in Districts **Sambalpur, Bhadrak, Jajapur, Cuttack, Angul, Mayurbhanj, Kendujar** in **Odisha** and **Raipur & Champa** in **Chhattisgarh**.

River **Chambal** flowed in Severe Flood Situation in **Dholpur**, in **Dholpur District** of **Rajasthan** and is expected to fall and continue flowing above Danger Level for some more time.

Rainfall has started increasing in South Interior and Malnad Districts of Karnataka. Further forecast of Heavy to Very Heavy Rainfall in the next 3 days in **South Interior Karnataka, Kerala** and **Tamil Nadu** has been predicted by IMD with chances

of flash floods in **Upper Cauvery Basin** during the next 24 hours as indicated in Section 2.3 below. **Since most of the dams are having storage in excess of 90% close watch is to be maintained for any abrupt increase in inflows due to such heavy rainfall in the reservoir area.**

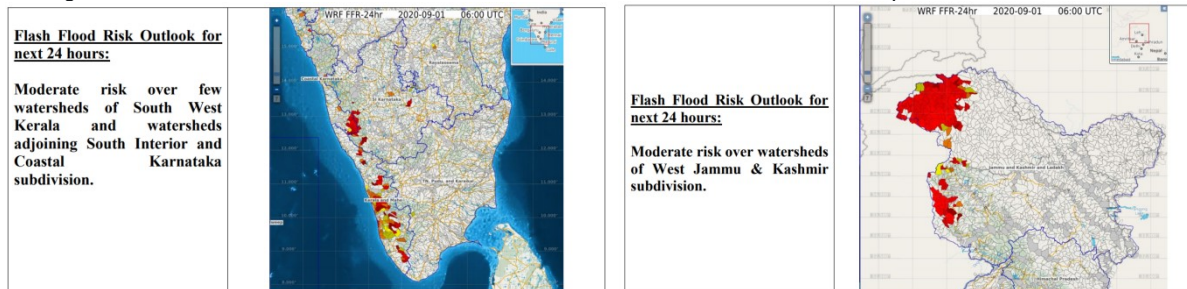
Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts 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.

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. All district administrations can take effective measures taking into account the prevailing Covid-19 situation in relief camps being set up in these districts.

2.3 Flash Flood Guidance

The following areas have been covered under Flash Flood Guidance for next 24 hours as per IMD.



3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 1st September 2020

#	River	Station	State	Present Gross Storage (%)	Rainfall Warning
1	Brahmani	Rengali Dam	Odisha	103.2	Yes
2	Nira	Veer Dam	Maharashtra	100	No
3	Purna	Yeldari Dam	Maharashtra	100	No
4	Tungabhadra	Tungabhadra Dam	Karnataka	100	Yes
5	Ghataprabha	Hidkal Dam	Karnataka	100	No
6	Krishna	Almatti Dam	Karnataka	100	No
7	Krishna	Narayanpur Dam	Karnataka	100	No
8	Bhima	Ujjani Dam	Maharashtra	100	No
9	Pench	Totladoh Project	Maharashtra	99.22	No
10	Krishna	Dr K L R S Pulichintala Dam	Andhra Pradesh	99	No
11	Musi	Musi Project	Telangana	99	No
12	Krishna	Srisailem Dam	Andhra Pradesh	98	Yes
13	Mula	Mula Dam	Maharashtra	97.41	No
14	Narmada	Bargi Dam	Madhya Pradesh	97	No
15	Hemavathy	Hemavathy Dam	Karnataka	97	Yes
16	Kabini	Kabini Dam	Karnataka	97	Yes
17	Cauvery	Krishnarajasagar	Karnataka	97	Yes
18	Koyna	Koyna Dam	Maharashtra	97	No
19	Chambal	Rana Pratap Sagar	Rajasthan	96.66	No
20	Mahi	Mahi Bajajsagar Dam	Rajasthan	96.36	No
21	Godavari	SripadaYellampally Dam	Telangana	96.12	No
22	Narmada	Indira Sagar Dam	Madhya Pradesh	96	No
23	Warana	Warana Dam	Maharashtra	96	No
24	Betwa	Rajghat Dam	Madhya Pradesh	96	No
25	Bhadra	Bhadra Dam	Karnataka	95	Yes
26	Narmada	Tawa Dam	Madhya Pradesh	95	No
27	Mahi	Kadana Dam	Gujarat	94.46	No
28	Som Kamla	Som Kamla Amba Dam	Rajasthan	94.45	No
29	Wardha	Upper Wardha Project	Maharashtra	94.22	No
30	Krishna	Priyadarshini Jurala Project	Telangana	94	No
31	Harangi	Harangi Dam	Karnataka	94	Yes

32	Malaprabha	Malaprabha Dam	Karnataka	93	No
33	Penganga	Issapur Project	Maharashtra	92.76	No
34	Godavari	Jaikwadi Dam	Maharashtra	92.47	No
35	Sone	Bansagar Dam	Madhya Pradesh	92	No
36	Kalisindh	Kalisindh Dam	Rajasthan	91.82	No
37	Narmada	Barna Dam	Madhya Pradesh	91	No
38	Sabarmati	Dharoi Dam	Gujarat	89.81	No
39	Sindhpana	Manjlegaon	Maharashtra	89.45	No
40	Hasdeo	Bango Dam	Chhattisgarh	87.12	Yes
41	Kaddamvagu	Kaddam Dam	Telangana	87.04	No
42	Salandi	Salandi Dam	Odisha	85.3	Yes
43	Godavari	Sriramasagar	Telangana	85.22	No
44	Gambhiri	Panchana Dam	Rajasthan	84.1	No
45	Mahanadi	Hirakud Dam	Odisha	83	Yes
46	Chambal	Gandhisagar Dam	Madhya Pradesh	83	No
47	Narmada	Sardar Sarovar Dam	Gujarat	81.3	No
48	Tapi	Ukai Dam	Gujarat	79.72	No
49	Wainganga	Upper Wainganga Project	Madhya Pradesh	79.11	No
50	Mahanadi	Ravishankar Dam	Chhattisgarh	77.93	Yes
51	Parwati	Parwati Dam	Rajasthan	73.97	No
52	Machhkund	Machhkund Project	Odisha	70.88	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).