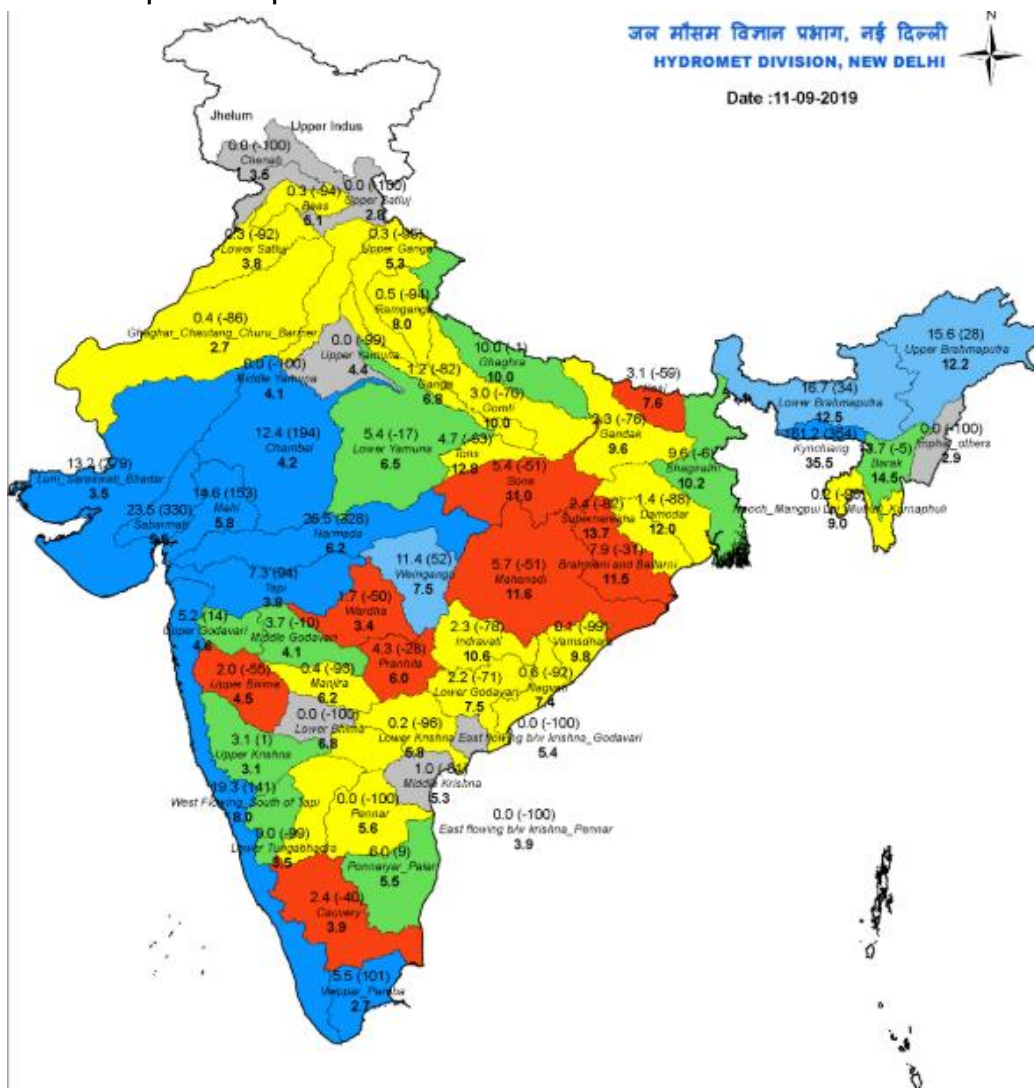




Daily Flood Situation Report cum Advisories 11-09-2019

- 1.0 IMD information
- 1.1 Rainfall Situation
- 1.1.1 River Basin Rainfall Map for 11th September 2019



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
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Notes: a) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall(mm)
b) Percentage departures of rainfall are shown in brackets.

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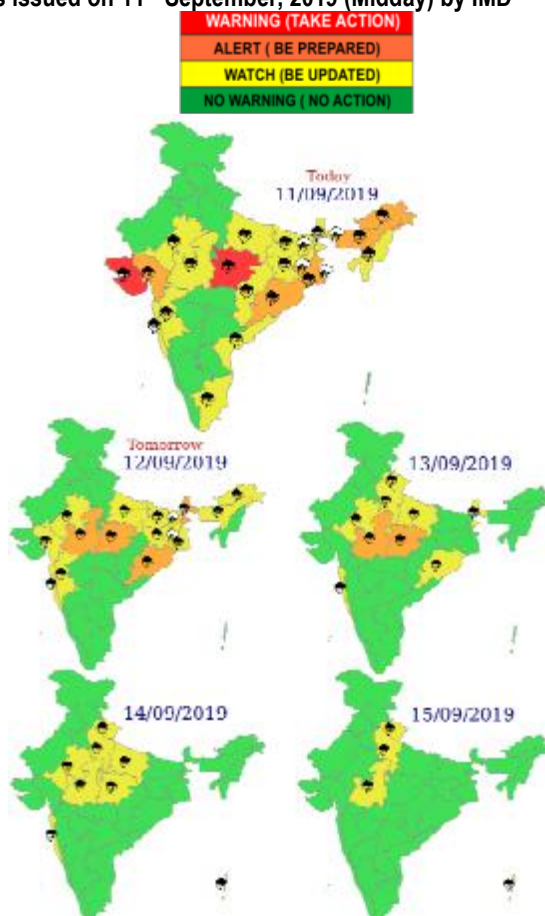
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1.1.2 Rainfall forecast for next 5 days issued on 11th September, 2019 (Midday) by IMD



2.0 CWC inferences

2.1 Flood Situation as per actual/ forecasted rainfall situation

FLOOD SITUATION SUMMARY		
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))	11
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	21
Total number of sites above Warning Level (A+B+C)		32
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)		35

For details please visit: http://cwc.gov.in/sites/default/files/cfcr-cwcdfb-11092019_1.pdf

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2.1.1 West Flowing Rivers, Wainganga, Tapi, Narmada, Betwa, Ken & Chambal Basin in Madhya Pradesh & Gujarat

Due to low pressure area in Madhya Pradesh and adjoining areas of Uttar Pradesh, extremely heavy rainfall is occurring over Madhya Pradesh for the past four days. This is affecting the sub-basins of Wainganga (Godavari Basin), Upper & Middle Narmada (Narmada Basin), Chambal, Betwa & Ken (Yamuna Sub-Basin of Ganga Basin). Further, there is forecast of extremely heavy rainfall in Eastern Madhya Pradesh for next 24 hours in and heavy rainfall for 5 days in East Madhya Pradesh. This is likely to increase the flows in most of the sub-basins mentioned above.

River **Narmada** at Hoshangabad in Hoshangabad District is flowing in Above Normal Flood Situation with falling trend. Rainfall in source region has increased today and hence Narmada at Dindori and Mandla are rising again. Releases from various Dams starting from upstream in Narmada Basin are given as under:

Dam	River	Date & Time	Outflow in Cumec
Bargi Dam	Bargi	11/9/19 1200	1595
Barna Dam	Barna	11/9/19 1200	424.7
Tawa Dam	Tawa	11/09/19 0800	5682
Indira Sagar Dam	Narmada	11/09/19 1600	19127
Omkareshwar Dam	Narmada	11/09/19 1600	22446
Sardar Sarovar Dam	Narmada	10/09/19 0800	21276

Due to releases from Sardar Sarovar Dam, river Narmada at Bharuch in Bharuch District of Gujarat is flowing in Severe Flood Situation and is likely to rise further due to heavy releases from upstream Dams and the severity of flood situation may continue for another 2-3 days.

River **Wainganga** is again rising in view of rainfall in East Madhya Pradesh. Since there is likelihood of extremely heavy rainfall in Chindwara, Seoni, and Mandla Districts for next 24 hours, there is likelihood of rising level in Wainganga. Sanjay Sarovar Dam in Seoni District is releasing around 600 cumec from 1200 hrs today.

River **Betwa** at Basoda in Madhya Pradesh is rising and is giving heavy inflows into **Rajghat Dam** in Ashoknagar District. Since Rajghat Dam is very near FRL, it is releasing around 3 Lakh cusec of water which is going as inflow into **Matatila Dam** in Uttar Pradesh. Since Matatila Dam is also very near to FRL, the excess water is being released into river Betwa which may affect the districts of Jalaun in Uttar Pradesh.

River **Chambal** is rising in Madhya Pradesh in the districts of Jhabua, Ratlam, Ujjain and Mandsaur. **Gandhisagar Dam** on river Chambal in Mandsaur District is very near to FRL and is releasing around 2.1 Lakh cusec of excess water which is inflows for **Rana Pratap Sagar, Jawahar Sagar** and **Kota Barrage** in Rajasthan. As almost all the dams are at FRL, they are releasing excess water and river Chambal is flowing close to Warning Level at Kota in Kota District of Rajasthan.

River **Tapi** is rising rapidly in catchment areas in Madhya Pradesh and Gujarat. **Ukai Dam** in Tapi District of Gujarat is getting an inflow of 2264 cumec and is releasing 3580 Cumec.

Most of the dams in Saurashtra and Kutch are also in high alert stage of very near to FRL and the forecast of extremely heavy rainfall in Saurashtra for another 24 hours may further increase the flows into small dams in these areas. Maximum precautions have to be taken for any releases.

2.1.2 Konkan & Goa, Ghat areas of Madhya Maharashtra & Gujarat

There has been very heavy rainfall recorded during last 24 hours along with the forecast of very heavy rainfall for next 24 hours in Konkan & Goa and in Hill ranges of Western Ghats in Maharashtra. River Levels in most of the rivers in **West Flowing Rivers** are in slow rising trend and is likely to continue in slow rising trend for another 24 hours before starting to fall.

River **Krishna** at Kurundwad in Kolhapur district is presently flowing in Above Normal Flood Situation with falling trend. Proper release advisories for downstream areas as well as for lower riparian States in the above basins have to be issued well in advance as most of the dams in the downstream lower riparian States are also very near their FRL and no storage is possible in many of the dams. Inflows from various major dams in Krishna Basin are given in the Table below (as on 10.09.2019):

PARTICULARS OF MAJOR RESERVOIRS AS ON 11/Sep/2019										
SI No	Reservoir Name	Time	FRL (feet)	Gross Capacity (TMC)	THIS YEAR				LAST YEAR	
					As on 11/Sep/2019				As on 11/Sep/2018	
					Level (in feet)	Gross Storage (TMC)	Inflow (Cusecs)	Outflow (Cusecs)	Level (in feet)	Gross Storage (TMC)
Krishna Basin										
1	KC_CANAL_ADINIMMAYAPALLI	00:00	9999	999	0	0	0	0	0	0
2	ALMATTI	13:12	1705	129.721	1702.03	113.89	223777	71741	1704.72	128.19
3	DR.KLRS PULICHINTALA	09:12	175	45.77	173.49	43.45	291361	300012	148.13	13.95
4	JURALA	09:10	1045	9.657	1044.59	9.4	267710	266055	1044.19	9.152
5	KC CANAL	00:00	957.99	1.2	0	0	0	0	0	0
6	KRISHNA DELTA SYSTEM	09:14	57.05	3.071	57.05	3.07	116726	116726	56.15	2.86
7	NAGARJUNA SAGAR	09:12	590	312.045	589.4	310.252	333563	326646	587.6	305.863
8	NARAYANAPUR	13:12	1615	37.646	1614.4	37.17	120675	105194	1614.99	37.64
9	SRISAILAM	09:11	885	215.807	884.8	214.36	385322	396463	879.6	185.99
10	SUNKESULA	06:00	958	1.2	954.72	0.845	77265	77265	0	0
11	TUNGABHADRA	09:10	1633	100.86	1632.8	100.09	103748	84157	1632.13	97.51
12	UJJAINI	09:09	1630	117.24	1630	117.24	33449	36289	1630	117.24

2.1.3 Cauvery Basin in Karnataka, Kerala and Tamilnadu

During the past 24 hours, there has been widespread rainfall in the catchment areas of river **Harangi, Hemavathi, Kabini** and **Upper Cauvery** in the States of Karnataka and Kerala. River **Cauvery** at Kollegal is flowing in Severe Flood Situation with steady trend. The flows from these dams are affecting Dharmapuri, Krishnagiri, Salem, Erode, Karur and Tiruchirapalli Districts of Tamilnadu. Mettur Dam in Salem District attained its Full



reservoir Level and is releasing the excess flow and the flow is maintained around 60,000 cusec. Due to this, river Cauvery at Kodumudi in Erode District and Musiri in Tiruchirapalli District is flowing in Above Normal Flood Situation.

Since most of the dams are near or at FRL, they are releasing excess flow as given in the following Table:

MAJOR RESERVOIR LEVEL INFORMATION – 11.09.2019														
Sl. No.	Name of the Reservoir	Reservoir Level Information (feet)				Capacity in TMC					Flow details			
		FRL in feet above MSL	RL as on 11/09/2019	Last year RL as on 11/09/2018	Balance RL to reach FRL	Live Storage Capacity TMC	Live storage as on 11/09/2019 TMC	Last year Live Storage as on 11/09/2018 TMC	Present Capacity % of Col. 8 as % of Col. 7	Balance Storage to reach Full capacity	Inflow in cusecs on 11/09/2019	Outflow in cusecs on 11/09/2019	Cumulative in flows from 01.06.2019 (mcft)	Cumulative out flows from 01.06.2019 (mcft)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Linganamakki	1819.00	1818.00	1817.75	-1.00	151.75	148.42	147.58	98	-3	20301	6248	183268	52899
2	Supa	1849.92	1846.80	1845.49	-3.12	145.33	141.25	139.56	97	-4	14357	15338	128955	38160
3	Varahi	1949.50	1935.86	1947.83	-13.64	31.10	23.54	30.10	76	-8	3131	131	22607	4605
4	Harangi	2859.00	2858.07	2856.42	-0.93	8.07	7.76	7.20	96	0	4860	3879	24026	17117
5	Hemavathi	2922.00	2922.00	2919.40	0.00	35.76	35.76	33.27	100	0	14479	8600	81691	49057
6	K.R.S.	124.80	124.80	123.20	0.00	45.05	45.05	42.84	100	0	41400	41191	124833	85535
7	Kabini	2284.00	2283.76	2283.69	-0.24	15.67	15.51	15.47	99	0	17092	13733	85381	71762
8	Bhadra	2158.00	2157.41	2157.81	-0.59	63.04	62.30	62.80	99	-1	12348	16213	77828	25692
9	Tungabhadra	1633.00	1632.80	1632.13	-0.20	100.86	100.09	97.51	99	-1	103748	83805	255033	156424
10	Ghataprabha	2175.00	2174.60	2175.00	-0.40	48.98	48.82	48.98	100	0	22104	24094	125039	77394
11	Malaprabha	2079.50	2079.50	2070.90	0.00	34.35	34.35	23.46	100	0	6011	6011	75327	36803
12	Almatti	1704.81	1702.12	1704.81	-2.69	119.26	105.62	119.26	89	-14	223777	71741	912965	801679
13	Narayanapura	1615.00	1614.48	1615.07	-0.52	26.14	25.30	26.15	97	-1	120675	105194	860791	841980

2.1.4 North Eastern States, West Bengal and Odisha

In view of heavy to very heavy rainfall forecast for next 3 days and Excess rainfall already occurring in Brahmaputra Basin, some of the flood forecasting stations in Assam, North Bengal are likely to rise and flow in Above Normal to Severe Flood Situation. Similarly in view of forecasted rainfall in Odisha some of the East Flowing Rivers and Mahanadi may also rise during the next 3 days. Some localized flooding may also be expected in some of the southern districts of West Bengal.

2.2 Flood Alerted Districts

Maharashtra: Districts along the river courses of **Wainganga and their tributaries**

Madhya Pradesh: Districts along the course of rivers **Wainganga, Tapi, Narmada, Betwa, Ken and Chambal**

Rajasthan: Districts along the course of the rivers **Chambal and its tributaries**



Flood Affected/ Alerted Districts in the Country

