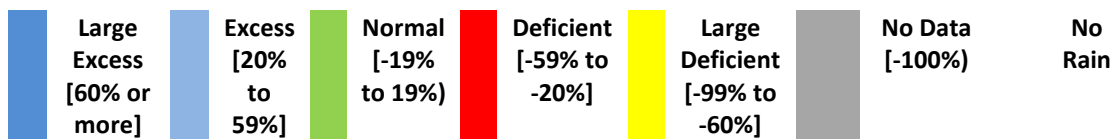




Daily Flood Situation Report cum Advisories 10-09-2019

- 1.0 IMD information
- 1.1 Rainfall Situation
- 1.1.1 River Basin Rainfall Map for 9th September 2019



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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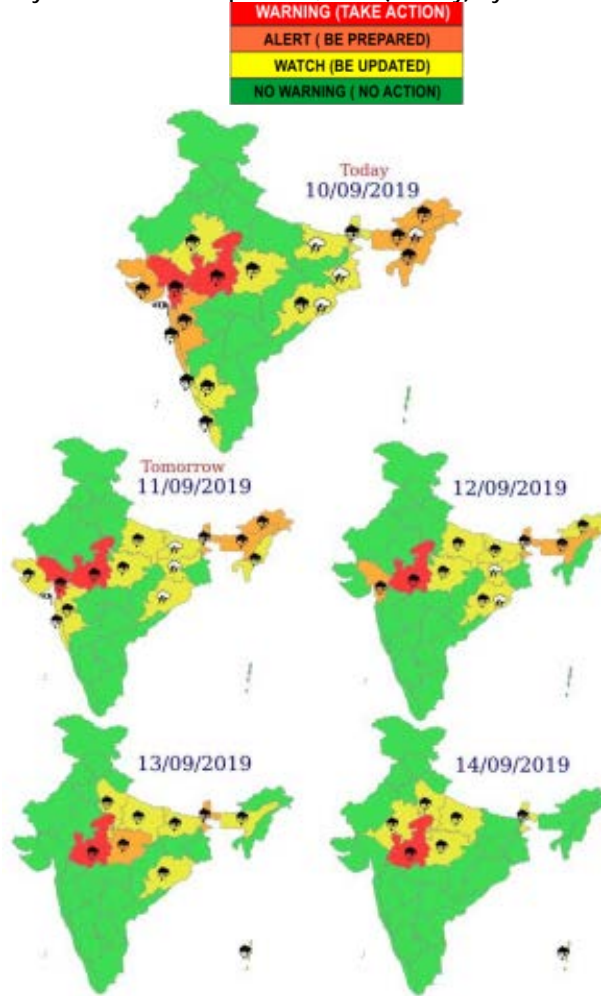
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1.1.2 Rainfall forecast for next 5 days issued on 9th September, 2019 (Midday) by IMD



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))	12
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)		34
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)		39

For details please visit: http://cwc.gov.in/sites/default/files/cfcr-cwcdfb-10092019_2.pdf

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2.1.1 Tapi, Narmada, Betwa, Ken & Chambal Basin in Madhya Pradesh & Gujarat

Due to low pressure area in Madhya Pradesh, extremely heavy rainfall is occurring over Madhya Pradesh for the past three 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 Western Madhya Pradesh for next 5 days in West Madhya Pradesh 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 Barmanghat in Narsingpur District of Madhya Pradesh is flowing in Severe Flood Situation and at Hoshangabad in Hoshangabad District is flowing in Above Normal Flood Situation with rising trend. Due to the combined effect of rainfall as well as releases from dams, river Narmada at Bharuch in Bharuch District of Gujarat is in Severe Flood Situation and is expected to rise further.

Releases from various Dams starting from upstream in Narmada Basin are given as under:

Dam	River	Date & Time	Outflow in Cumec
Bargi Dam	Bargi	10/9/19 1600	1085
Barna Dam	Barna	10/9/19 1200	168.6
Tawa Dam	Tawa	10/09/19 0800	448.5
Indira Sagar Dam	Narmada	10/09/19 1600	17960
Omkareshwar Dam	Narmada	10/09/19 1600	21708
Sardar Sarovar Dam	Narmada	10/09/19 0800	15663



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 3.61 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 **Ken** is also rising at Madla in Panna District of Madhya Pradesh and this is likely to affect Banda District of Uttar Pradesh as rainfall is expected to continue.

River **Chambal** is rising in Madhya Pradesh in the districts of Jhabua, Rattlam, Ujjain and Mandsaur. **Gandhisagar Dam** on river Chambal in Mandsaur District is very near to FRL and is releasing around 97,257 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. Umerpada & Chopadvav in Tapi Basin recorded rainfall of 39 and 23 cm of rainfall till today morning. **Ukai Dam** in Tapi District of Gujarat is getting an inflow of 4516 cumec and is releasing 3582 Cumec.

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 Arjunwad in Satara District and Kurundwad in Kolhapur district are rising and is presently flowing in Above Normal Flood Situation with rising 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):

SI No	Reservoir Name	Time	FRL (feet)	Gross Capacity (TMC)	THIS YEAR				LAST YEAR	
					As on 10/Sep/2019				As on 10/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	10:56	1705	129.721	1699.15	100.13	180343	213491	1704.72	128.19
3	DR.KLRS PULICHINTALA	11:08	175	45.77	173.95	44.13	54574	69772	149.31	14.9
4	JURALA	11:04	1045	9.657	1044.36	9.26	271433	272370	1044.36	9.26
5	KC CANAL	00:00	957.99	1.2	0	0	0	0	0	0
6	KRISHNA DELTA SYSTEM	11:11	57.05	3.071	57.05	3.07	36716	36716	56.25	2.89
7	NAGARJUNA SAGAR	11:07	590	312.045	589.2	309.655	125001	79043	587.9	306.041
8	NARAYANAPUR	10:56	1615	37.646	1613.45	35.77	251366	225761	1614.99	37.64
9	SRISAILAM	11:06	885	215.807	884.9	215.33	297081	210518	880	188.14
10	SUNKESULA	06:00	958	1.2	954.72	0.845	77265	77265	0	0
11	TUNGABHADRA	11:05	1633	100.86	1632.36	98.39	95083	85288	1632.18	97.7
12	UJJAINI	10:58	1630	117.24	1630	117.24	49769	46281	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 – 09.09.2019														
Sl. No.	Name of the Reservoir	Reservoir Level Information (feet)				Capacity in TMC					Flow details			
		FRL in feet above MSL	RL as on 09/09/2019	Last year RL as on 09/09/2018	Balance RL to reach FRL	Live Storage Capacity TMC	Live storage as on 09/09/2019 TMC	Last year Live Storage as on 09/09/2018 TMC	Present Capacity % of Col. 8 as % of Col. 7	Balance Storage to reach Full capacity	Inflow in cusecs on 09/09/2019	Outflow in cusecs on 09/09/2019	Cumulative in flows from 01.06.2019 (mcf)	Cumulative out flows from 01.06.2019 (mcf)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Linganamakki*	1819.00	1817.95	1818.05	-1.05	151.75	148.25	148.58	98	-4	49819	48477	174582	44887
2	Supa*	1849.92	1848.35	1845.82	-1.57	145.33	143.27	139.99	99	-2	45599	40451	123468	31490
3	Varahi*	1949.50	1933.56	1948.52	-15.94	31.10	22.39	30.51	72	-9	7136	0	21458	4583
4	Harangi	2859.00	2857.96	2855.83	-1.04	8.07	7.72	7.00	96	0	8170	6874	22918	16048
5	Hemavathi	2922.00	2921.48	2919.78	-0.52	35.76	35.26	33.62	99	-1	23460	23400	78621	46500
6	K.R.S.	124.80	124.80	123.77	0.00	45.05	45.05	43.62	100	0	45648	45439	117312	78051
7	Kabini	2284.00	2283.61	2283.68	-0.39	15.67	15.41	15.46	98	0	23218	26025	81827	68327
8	Bhadra	2158.00	2157.54	2157.75	-0.46	63.04	62.46	62.72	99	-1	24728	23525	74601	21854
9	Tungabhadra	1633.00	1632.14	1632.25	-0.86	100.86	97.55	97.97	97	-3	96546	96317	237854	141859
10	Ghataprabha	2175.00	2175.00	2175.00	0.00	48.98	48.98	48.98	100	0	29122	30532	121200	73252
11	Malaprabha	2079.50	2079.50	2070.85	0.00	34.35	34.35	23.41	100	0	19110	19110	74198	35674
12	Almatti	1704.81	1699.89	1704.81	-4.92	119.26	95.35	119.26	80	-24	171740	228407	878049	777035
13	Narayanapura	1615.00	1611.86	1615.01	-3.14	26.14	21.77	26.05	83	-4	228511	242605	828647	813385

2.2 Flood Alerted Districts

Maharashtra: Districts along the river courses of Wainganga and their tributaries
Madhya Pradesh: Districts along the course of rivers 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

