



Central Water Commission
Daily Flood Situation Report cum Advisories
09-07-2019

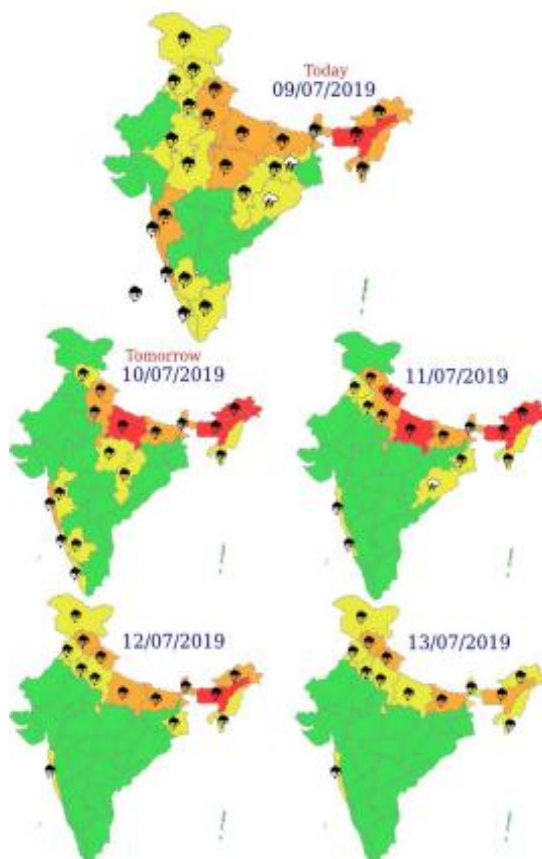
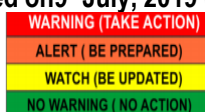
1.0 IMD information

1.1 Rainfall Situation

1.1.1 Amount of rainfall recorded at 0830 hours IST of today (6 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Cherapunji (Meghalaya)	32
Shirgaon & Tamni (Maharashtra)	25 each
Dawdi (Maharashtra)	20
Dungerwadi (Maharashtra)	19
Jawhar (Maharashtra)	18
Bhira, Lonavala, Mandangad (Maharashtra)	17 each
Hosanagar (Karnataka), Mathanguri (Assam), Dharavi, Khopoli (Maharashtra)	15 each
Mahabaleshwar & Pen (Maharashtra), Linganamakki & Londa (Karnataka), Benibad (Bihar)	14 each
Mumbai, Ambone, Mangaon & Matheran (Maharashtra), Rosera & Baltara (Bihar)	13 each
Panbari (Assam), Rajghat, Mohammedabad (UP)	12 each
Varanasi, B.K. Ghat & Basti (Uttar Pradesh), Tikamgarh & Kotma (MP), Marwahi (Chattisgarh), Kammaradi (Karnataka), Bishunpur (Bihar), Champasari (WB), Koyna (Maharashtra)	11 each
Darjeeling (West Bengal), Karera (MP), Jashpurnagar (Chattisgarh), Motipur, Bangapanni, Chandauli & Mirzapur (UP), Lalganj & Galgalia (Bihar) Goalpara (Assam), Shirola (Maharashtra)	10 each
Gudh & Sohagpur (MP), Premnagar & Ramanujnagar (Chattisgarh), Siddapur & Kotigehara (Karnataka), Shardanagar (UP), Hayaghat (Bihar), Barpeta, Pagladiya NT road crossing (Assam)	9 each

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



2.0 CWC inferences
 2.1 Flood Situation on 9th July 2019
 2.1.1 Summary of Flood Situation as per CWC Flood Forecasting network

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))	6
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	11
Total number of sites above Warning Level (A+B+C)		17
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)		12

2.1.2 Severe Flood Situation

River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
				Date	Trend Time	Trend Date
Beki	Barpeta	44.1	45.1	46.2	45.12	45.07
Beki Road bridge	Assam			2000-08-04	Steady 13:00	Falling 9/7/2019 18:00:00
Jiabharali	Sonitpur	76.0	77.0	78.5	78.09	78.04
NT Road Crossing Jia-Bharali	Assam			2007-07-26	Rising 13:00	Falling 9/7/2019 15:00:00
Brahmaputra	Jorhat	84.04	85.04	87.37	86.2	86.55
Neamatighat	Assam			1991-07-11	Rising 13:00	Rising 10/7/2019 09:00:00
Dhansiri (South)	Golaghat	76.42	77.42	80.16	78.48	78.52
Numaligarh	Assam			2018-08-03	Steady 13:00	Steady 9/7/2019 16:00:00
Puthimari	Kamrup	50.81	51.81	55.08	52.15	52.12
Puthimari NH Rd Xing	Assam			2008-08-31	Falling 12:00	Falling 9/7/2019 19:00:00
Bagmati	Sitamarhi	52.73	53.73	58.15	53.86	53.77
Runisaidpur	Bihar			2017-08-14	Falling 13:00	Falling 10/7/2019 06:00:00

2.1.3

Above Normal

River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
				Date	Trend Time	Trend Date
Bagmati	Sitamarhi	69.1	70.1	73.0	69.76	69.7
Dheng Bridge	Bihar			2017-08-13	Falling 13:00	Steady 10/7/2019 06:00:00
Gandak	Gopalganj	61.22	62.22	64.1	61.98	62.12
Dumariaghat	Bihar			2017-08-17	Steady 13:00	Steady 10/7/2019 06:00:00
Gaurang	Kokrajhar	41.85	42.85	43.6	42.09	42.4
Kokrajhar	Assam			2015-08-20	Rising 13:00	Rising 9/7/2019 18:00:00
Mahananda	Kishanganj	65.0	66.0	67.22	65.0	
Taibpur	Bihar				Rising 12:00	
Subansiri	Lakhimpur	81.53	82.53	86.21	81.66	82.0
Badatighat	Assam			1972-07-28	Rising 13:00	Rising 10/7/2019 03:00:00
Brahmaputra	Dhubri	27.62	28.62	30.36	27.91	27.98
Dhubri	Assam			1988-08-28	Rising 12:00	Rising 9/7/2019 21:00:00
Brahmaputra	Dibrugarh	104.7	105.7	106.48	105.05	104.98
Dibrugarh	Assam			1998-09-03	Falling 13:00	Steady 9/7/2019 18:00:00
Ranganadi	Lakhimpur	93.81	94.81	95.92	94.48	94.5
Ranganadi NT Road crossing	Assam			1979-07-02	Rising 12:00	Steady 9/7/2019 15:00:00
Dikhow	Sibsagar	91.4	92.4	94.23	92.25	92.25
Sivasagar	Assam			2018-08-01	Rising 13:00	Rising 9/7/2019 15:00:00
Brahmaputra	Sonitpur	64.23	65.23	66.59	64.99	65.5
Tezpur	Assam			1988-08-27	Rising 13:00	Rising 10/7/2019 09:00:00
Kosi	Khangaria	32.85	33.85	36.4	33.09	33.28
Baltara	Bihar			1987-08-15	Rising 13:00	Rising 10/7/2019 06:00:00

2.1.4 Reservoir

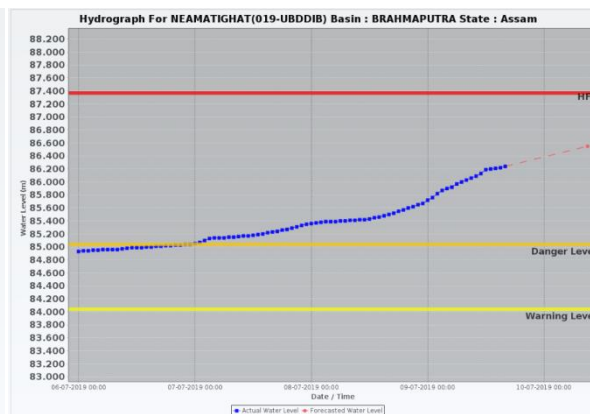
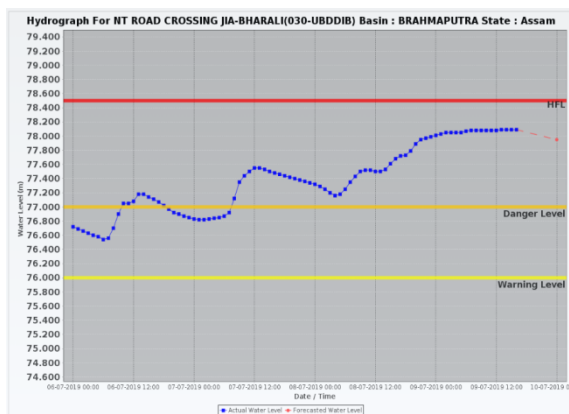
Name of River	Flood Forecasting Site	District	State	FRL (m)	MWL (m)	Actual Level			Forecast			
						Level (m)	Time	Trend	Average Inflow (Cumec)	Trend	Date	Time
Krishna	Hipparagi Barrage	Bijapur	Karnataka	531.4	531.4	520.699	08:00	Falling	2500.0	Rising	10/7/2019	08:00:00
Koyna	Koyna Dam	Satara	Maharashtra	650.85		633.5786	08:00	Rising	1000.0	Rising	10/7/2019	08:00:00
Tungbhadra	Singatalur Barrage	Gadag	Karnataka	507.0		506.8	08:00	Steady	500.0	Rising	9/7/2019	20:00:00
Nira	Veer Dam	Pune	Maharashtra	579.85		573.02094	08:00	Rising	500.0	Rising	10/7/2019	08:00:00
Bhadra	Bhadra Dam	Chikmagalur	Karnataka	657.75	657.75	640.461	08:00	Rising	230.0	Rising	10/7/2019	08:00:00
Krishna	Almatti Dam	Bijapur	Karnataka	519.6	519.6	512.82	12:00	Rising	2800.0	Rising	10/7/2019	08:00:00
Hemavathi	Hemavathi Dam	Hassan	Karnataka	890.63		877.443	08:00	Rising	180.0	Steady	10/7/2019	08:00:00
Kabini	Kabini Dam	Mysore	Karnataka	696.16		690.37506	08:00	Rising	115.0	Steady	10/7/2019	08:00:00
Cauvery	Krishna Raja Sagar	Mandya	Karnataka	752.49		740.3133	08:00	Rising	210.0	Steady	10/7/2019	08:00:00
Tungbhadra	Tungbhadra Dam	Bellary	Karnataka	497.74	497.74	480.88293	12:00	Rising	450.0	Rising	9/7/2019	20:00:00
Tunga	Upper Tunga Project	Shimoga	Karnataka	588.24	588.24	588.2396	08:00	Steady	450.0	Rising	10/7/2019	08:00:00
Bhavani	Bhavanisagar Dam	Erode	Tamil Nadu	280.42		266.1026	08:00	Rising	85.0	Rising	10/7/2019	08:00:00

2.2 Flood Situation as per actual/forecasted rainfallsituation

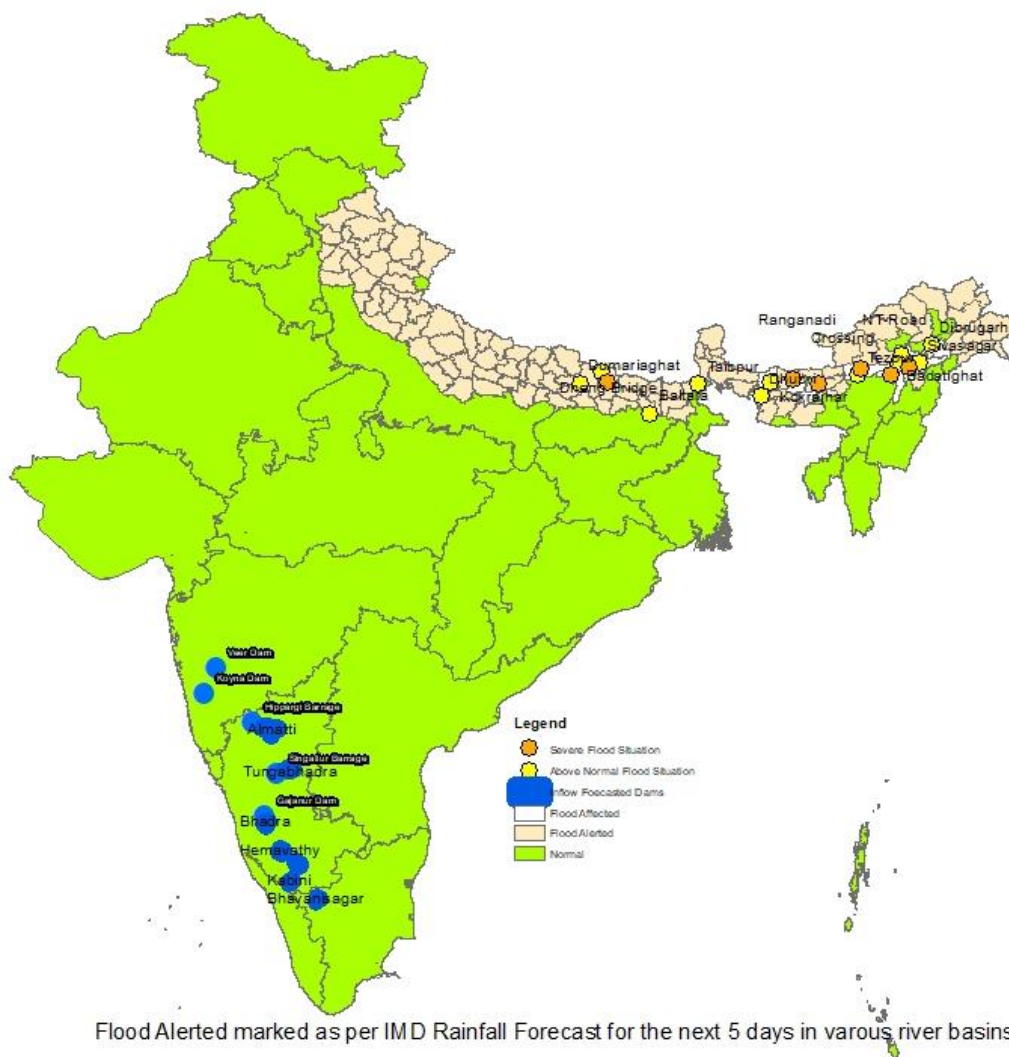
IMD has forecasted heavy to very heavy rainfall with isolated extremely heavy rainfall in Assam and Meghalaya between 10th and 13th July, Eastern Uttar Pradesh & Arunachal Pradesh on 11th and 12th July 2019, Uttarakhand on 12th July. Heavy to very heavy rainfall over Konkan, Goa & Madhya Maharashtra on 10th July, UP, Bihar and Sub-Himalayan West Bengal has been forecasted on most of the days. Due to this warning, there is likelihood of rise in Water Levels in various river basins and the likely impact of these rains as inferred from rainfall runoff model run for 3 days advisory forecast is detailed as under:

Krishna Basin	Due to Heavy rains in Source regions of Krishna, Bhima and Tungabhadra rivers in Maharashtra & Karnataka, there is rise in water level of river Krishna, Bhima & Tungabhadra in the districts of Satara, Pune, Sangli and Kolhapur in Maharashtra and in Vijayapura, Bagalkote, Shivamogga, Chikmagalur, Ballari districts of Karnataka. The inflows into reservoirs have increased considerably. However, the level are much below Full Reservoir Levels (FRL)
Konkan &Goa	West Flowing Rivers in the districts of Palghar, Thane, Raigad, Ratnagiri and Sindhudurg are likely to have flood like situation in view of the above forecast. There may be chances of Urban Flooding due to drainage congestion and water logging in urban areas of Mumbai and its suburbs.
Ganga Basin	In view of the rainfall forecast along foot hills of Uttarakhand, Himachal Pradesh, UP, Bihar as well as in catchment areas of Northern Tributaries of Ganga in Nepal, here is likely to be rapid rise in water levels in rivers such as Alaknanda, Bhagirathi, Yamuna in upper reaches, Ramganga, Ghaghra, Rapti, Sharda, Gandak, Kosi, Bagmati, Burhi Gandak, Kamla Balan, Mahananda in UP and Bihar.
Brahmaputra Basin	In view of the rainfall forecast in Arunachal Pradesh, Assam & Meghalaya, there is likely to be further increase in Water Levels in the river Brahmaputra and its tributaries such as Siang, Lohit, Buridehing, Desang, Debang, Dikhow, Subansiri, Jia-Bharali, Dhansiri (S), Kopili, Pagladiya, Puthimari, Beki, Manas, Aie, Champamati, Gaurang, Sankosh, Teesta, Raidak, Torsa, Jaldhaka in Arunachal Pradesh, Assam, Northern Districts of West Bengal

Most of the Rivers in Brahmaputra Basin have started rising. The likelihood of continuing rainfall for next 3 to 4 days in Arunachal Pradesh, Assam, Meghalaya and West Bengal, **indicates Severe to Extreme Floods in main Brahmaputra and its tributaries such as Siang, Lohit, Dikhow, Buridehing, Desang, Subansiri, Jia- Bharali, Dhansiri (South & North), Kopili, Puthimari, Pagladiya, Beki, Manas, Aie, Champamati, Gaurang, Sankosh, Torsa, Raidak, Teesta, Jaldhaka during the next one week. Necessary Precautions have to be taken and Disaster Management teams have to be placed well in advance in affected river locations.** Some of the rivers are already flowing well above Danger Level as indicated in the hydrographs below:



Map showing Flood Situation on 09.07.2019 and the Districts Alerted for next 5 days



Flood Alerted marked as per IMD Rainfall Forecast for the next 5 days in various river basins

Flood Alerted Districts for next 5 days include:

- Uttar Pradesh:** Districts covering rivers Yamuna, Ghaghra, Rapti, Sharda, Gandak
- Uttarakhand:** Districts covering rivers Bhagirathi, Alaknanda, Yamuna, Ramganga, Sharda, Sarju
- Bihar:** Districts covering Gandak, Burhi Gandak, Bagmati, Adhwara Group, Kamla Balan, Kosi, Mahananda
- Assam:** Districts covering major tributaries of Brahmaputra as well as main Brahmaputra
- Arunachal Pradesh:** Districts covering river Siang, Lohit, Kameng
- West Bengal:** Jalpaiguri, Coochbehar, Maldah