



**Central Water Commission**  
**Daily Flood Situation Report cum Advisories**  
**18 -07-2019**

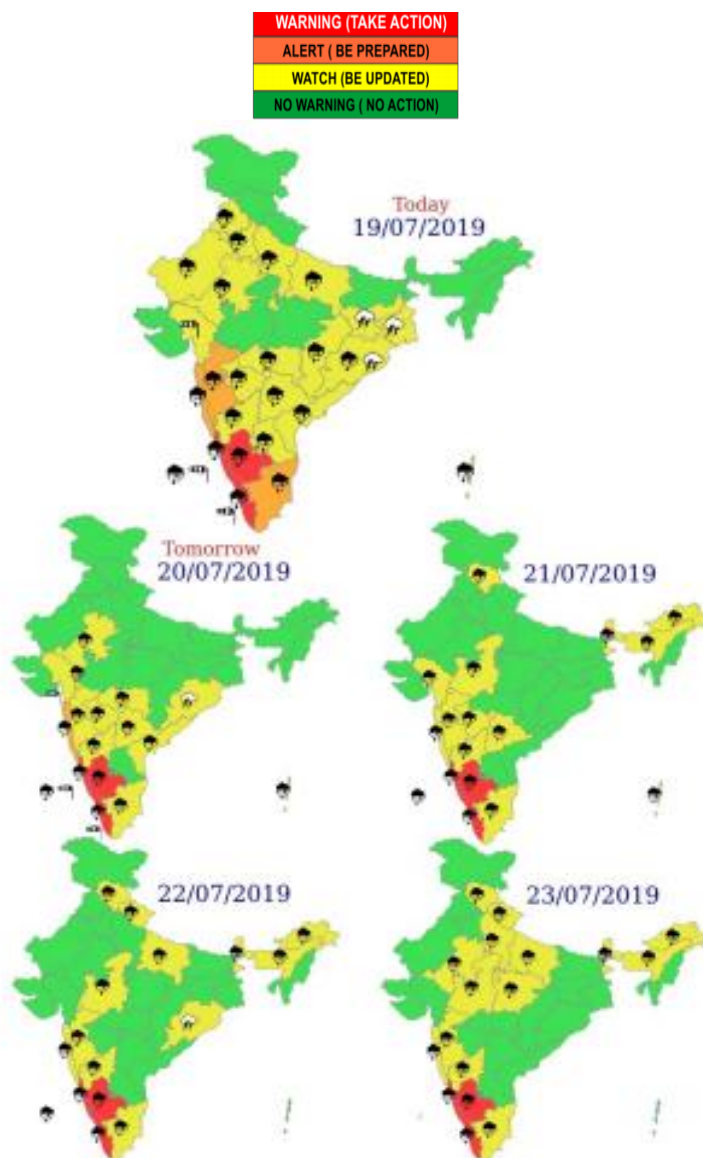
**1.0 IMD information**

**1.1 Rainfall Situation**

**1.1.1 Amount of rainfall recorded at 0830 hours IST of today (7 cm or more) as per IMD**

Name of Place (State)	Rainfall (in cm)
Kozhikode & Peermade (Kerala)	15 each
Vengurla (Maharashtra), Ponnani (Kerala)	14 each
Karipur, Perumbavur, Kanjirappally, Idukki, Idukki dam, Edamalayar dam & Thodupuzha (Kerala)	12 each
Ernakulum & Arangali (Kerala), Lunglei (Mizoram)	11 each
Chinnakalar (TN), Alapuzzah, Neeleswaram, Kallooppa & Vadakara (Kerala), Udaipur (Rajasthan),	10 each
Gopalpur (Odisha), Valparai & Cuddalore (TN), Kochi, Santegulli, Kannur, Chengannur, Cherthala, Kozha & Vadakkancherry (Kerala)	9 each
Kottayam, Kumarakom, Thrissur, Vellanikkara, Irinjalakuda, Kodungallur, Konni, Kayamkulam, Bantwal, Mancompu & Taliparamba (Kerala), Srisailem (Andhra Pradesh)	8 each
Devarakonda (Telangana), Agathi (Lakshadweep), Mavelikkara, Vaikom, Piravom, Myladumpara & Irrikur (Kerala), Kamalpur (Tripura), Khleihriat (Meghalaya), Gossaigaon (Assam), Narnaul (Haryana), Nawa & Bhuhana (Rajasthan)	7 each

**1.1.2 Rainfall forecast for next 5 days issued on 19<sup>th</sup> July, 2019 (Midday) by IMD**



2.0 CWC inferences  
2.1 Flood Situation



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
<b>A</b>	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	0
<b>B</b>	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	21
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	15
<b>D</b>	Normal Flood Situation with Forecast: (Site (s) where water level is below Warning Level but Forecast Issued)	7
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)		5

## 2.1.2 Severe Flood Situation

River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
Station	State			Date	Trend Time	Trend Date Time
Mahananda	Araria	46.0	47.3	49.4	47.67	47.56
Araria	Bihar			2017-08-14	Falling 13:00	Falling 19/7/2019 20:00:00
Bagmati	Sitamarhi	69.1	70.1	73.0	70.26	70.12
Dheng Bridge	Bihar			2017-08-13	Falling 13:00	Steady 20/7/2019 06:00:00
Kopili	Marigaon	55.0	56.0	58.09	56.7	56.67
Dharamtul	Assam			2004-07-21	Falling 13:00	Falling 19/7/2019 21:00:00
Brahmaputra	Dhubri	27.62	28.62	30.36	30.19	30.13
Dhubri	Assam			1988-08-28	Falling 12:00	Falling 19/7/2019 21:00:00
Brahmaputra	Goalpara	35.27	36.27	37.43	36.87	36.5
Goalpara	Assam			1954-07-31	Falling 12:00	Falling 20/7/2019 06:00:00
Brahmaputra	Kamrup	48.68	49.68	51.46	49.94	49.7
Guwahati(D. C. Court)	Assam			2004-07-21	Falling 12:00	Falling 20/7/2019 06:00:00
Brahmaputra	Jorhat	84.04	85.04	87.37	85.43	85.16
Neamatighat	Assam			1991-07-11	Steady 13:00	Falling 20/7/2019 09:00:00
Dhansiri (South)	Golaghat	76.42	77.42	80.16	77.43	77.38
Numaligarh	Assam			2018-08-03	Falling 13:00	Falling 19/7/2019 16:00:00
Kosi	Khangaria	32.85	33.85	36.4	35.13	34.82
Baitara	Bihar			1987-08-15	Falling 13:00	Falling 20/7/2019 06:00:00
Bagmati	Muzaffarpur	47.68	48.68	50.01	49.07	49.0
Benibad	Bihar			2004-07-12	Steady 13:00	Falling 20/7/2019 06:00:00
Mahananda	Purnia	34.65	35.65	38.2	36.18	35.8
Dhengraghat	Bihar			2017-08-14	Falling 13:00	Falling 20/7/2019 06:00:00
Adhwara	Darbhanga	45.94	46.94	49.52	47.43	47.45
Ekmgihat	Bihar				Steady 13:00	Steady 20/7/2019 06:00:00
Bagmati	Darbhanga	44.72	45.72	48.96	46.28	46.2
Hayaghat	Bihar			1987-08-14	Steady 13:00	Steady 20/7/2019 06:00:00
Kamla	Madhubani	66.75	67.75	71.35	67.93	67.95
Jainagar	Bihar				Falling 13:00	Falling 19/7/2019 16:00:00
Kamalabalan	Madhubani	49.0	50.0	53.01	50.75	50.6
Jhanjharpur	Bihar			2004-07-10	Falling 13:00	Falling 19/7/2019 16:00:00
Mahananda	Katihar	30.4	31.4	34.07	32.4	32.3
Jhawa	Bihar			2017-08-14	Falling 13:00	Falling 19/7/2019 22:00:00
Adhwara	Darbhanga	49.0	50.0	52.99	50.11	50.05
Kamtaul	Bihar			1987-08-12	Steady 13:00	Falling 20/7/2019 06:00:00
Burhi Gandak	Purba Champaran	62.2	63.2	67.09	63.6	63.3
Laibegiaghat	Bihar			1975-07-30	Steady 13:00	Falling 20/7/2019 06:00:00
Burhi Gandak	Samastipur	41.63	42.63	46.35	42.9	43.26
Rosera	Bihar			1987-08-16	Rising 13:00	Rising 20/7/2019 10:00:00
Bagmati	Sitamarhi	52.73	53.73	58.15	55.55	56.1
Runisaidpur	Bihar			2017-08-14	Rising 13:00	Falling 20/7/2019 06:00:00
Burhi Gandak	Muzaffarpur	51.53	52.53	54.29	52.61	52.7
Sikandarpur (Muzzafarpur)	Bihar			1987-08-15	Steady 13:00	Steady 20/7/2019 06:00:00

### 2.1.3 Above Normal

River	District	Warning Level (m)	Danger Level (m)	Highest flood Level (m)	Actual level	Forecasted Level
Station	State			Date	Trend Time	Trend Date Time
Burhi Gandak	Purba Champaran	58.62	59.62	61.17	59.07	59.07
Ahirwalia	Bihar				Steady 13:00	20/7/2019 06:00:00
Gandak	Gopalganj	61.22	62.22	64.1	61.59	61.55
Dumariaghat	Bihar			2017-08-17	Falling 13:00	20/7/2019 06:00:00
Ganga	Budaun	161.0	162.0	162.79	161.36	161.22
Kachhlaibridge	Uttar Pradesh			2010-09-24	Steady 12:00	20/7/2019 00:00:00
Subansiri	Lakhimpur	81.53	82.53	86.21	81.7	81.64
Badatighat	Assam			1972-07-28	Falling 13:00	20/7/2019 00:00:00
Beki	Barpeta	44.1	45.1	46.2	44.69	44.73
Beki Road bridge	Assam			2000-08-04	Steady 12:00	19/7/2019 18:00:00
Kushiara	Karimganj	13.94	14.94	16.57	14.36	14.26
Karimganj	Assam			2010-06-10	Falling 12:00	19/7/2019 18:00:00
Jiabharali	Sonitpur	76.0	77.0	78.5	76.99	77.0
NT Road Crossing Jia-Bharali	Assam			2007-07-26	Falling 13:00	19/7/2019 15:00:00
Pagladiya	Nalbari	51.75	52.75	55.45	51.86	51.75
Pagladiya N T Road Crossing	Assam			2004-07-08	Steady 12:00	19/7/2019 18:00:00
Puthimari	Kamrup	50.81	51.81	55.08	51.74	51.55
Puthimari NH Rd Xing	Assam			2008-08-31	Falling 12:00	19/7/2019 19:00:00
Brahmaputra	Sonitpur	64.23	65.23	66.59	65.1	64.78
Tezpur	Assam			1988-08-27	Falling 13:00	20/7/2019 09:00:00
Burhi Gandak	Samastipur	45.02	46.02	49.38	45.55	45.75
Samastipur	Bihar			1987-08-15	Rising 13:00	20/7/2019 02:00:00
Rapti	Sidharthnagar	83.9	84.9	85.88	84.16	84.02
Bansi	Uttar Pradesh			2017-08-20	Steady 13:00	20/7/2019 08:00:00
Ghagra	Bara Banki	105.07	106.07	107.616	105.14	105.05
Elginbridge	Uttar Pradesh			2014-08-16	Steady 13:00	20/7/2019 08:00:00
Ghagra	Ballia	63.01	64.01	66.0	63.4	63.25
Turtipar	Uttar Pradesh			1998-08-28	Steady 13:00	20/7/2019 08:00:00
Ganga	Murshidabad	21.25	22.25	25.14	21.51	21.58
Farakka(FF)	West Bengal			1998-09-07	Rising 12:00	19/7/2019 20:00:00

### 2.1.3 Normal Flood Situation with Forecast

River Station	District State	Warning Level (m)	Danger Level (m)	Highest flood Level (m) Date	Actual level		Forecasted Level	
					Trend	Time	Trend	Date Time
Sankosh	Dhubri	28.94	29.94	30.95	28.93		28.85	
Golokganj	Assam			2007-09-08	Falling	13:00	Falling	19/7/2019 18:00:00
Kopili	Nagaon	59.5	60.5	61.79	59.33		58.85	
Kampur	Assam			2004-07-20	Falling	13:00	Falling	20/7/2019 09:00:00
Kosi	Supaul *	46.75	47.75	49.24	46.6			
Basua	Bihar			2017-08-13	Steady	12:00		
Ghagra	Siwan	59.82	60.82	61.74	59.68			
Darauli	Bihar			1998-08-29	Falling	12:00		
Ghagra	Siwan	56.04	57.04	58.01	56.01		55.79	
Gangpur Siwan	Bihar			1983-09-18	Falling	12:00	Falling	20/7/2019 04:00:00
Ghagra	Falzarabad	91.73	92.73	94.01	91.7			
Ayodhya	Uttar Pradesh			2009-10-11	Steady	13:00		
Rapti	Balrampur *	103.62	104.62	105.54	103.48			
Balrampur	Uttar Pradesh			2017-08-15	Falling	13:00		

### 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
Periyar	Edamalayar Dam	Ernakulam	Kerala	169.0		128.0	13:00	Rising	350.0	Rising	20/7/2019	06:00:00
Periyar	Idukki Dam	Idukki	Kerala	732.43		702.59	13:00	Rising	650.0	Rising	20/7/2019	06:00:00
Bhadra	Bhadra Dam	Chikmagalur	Karnataka	657.75	657.75	642.5306	08:00	Rising	150.0	Rising	20/7/2019	08:00:00
Kabini	Kabini Dam	Mysore	Karnataka	696.16		691.6735	08:00	Rising	165.0	Rising	20/7/2019	08:00:00
Tunga	Upper Tunga Project	Shimoga	Karnataka	588.24	588.24	588.2396	08:00	Steady	230.0	Rising	20/7/2019	08:00:00

## 2.2 Flood Situation as per actual/ forecasted rainfall situation

IMD has forecasted Heavy to Very Heavy rain at a few places with isolated Extremely Heavy rainfall in Kerala & Mahe Division of Puducherry, Coastal and South Interior Karnataka from 20<sup>th</sup> to 24<sup>th</sup> July and slow reduction after 25<sup>th</sup> July. Heavy to Very Heavy rainfall at isolated places has been forecasted in Konkan & Goa, Madhya Maharashtra and Western Ghat Areas of Tamilnadu. Slow increase in rainfall has been predicted for Himachal Pradesh, Uttarakhand, Madhya Pradesh, Assam, Meghalaya and Arunachal Pradesh from 22<sup>nd</sup> July 2019 onwards.

### 2.2.1 Assam

There has been significant fall in river levels in most of the river in Brahmaputra and Barak Basin. Since no rain is predicted for next 3 days, the falling level is likely to continue for another 3-4 days.

### 2.2.2 Bihar

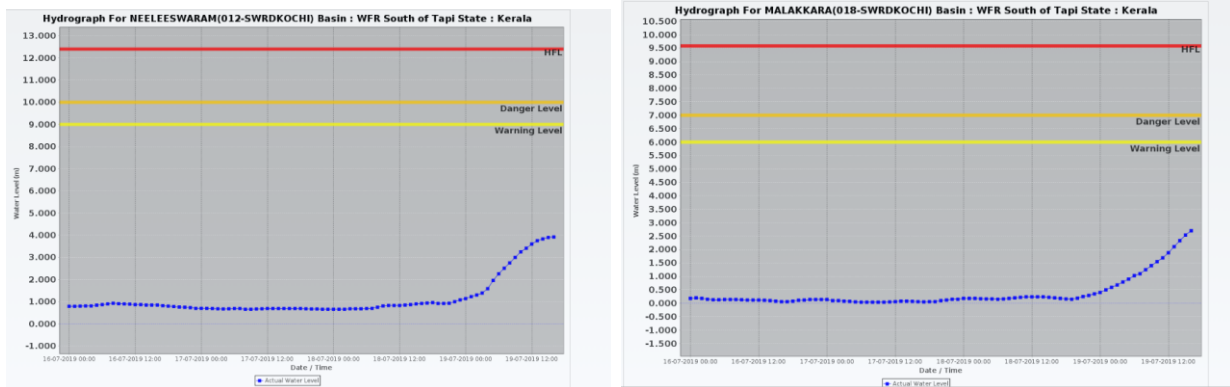
Rivers Bagmati, Adhwara Group, KamlaBalan, Kosi and Mahananda continue in Severe to Above Normal Flood Situation. This is likely to continue for another 2-3 days and then slowly recede as rainfall activity has been forecasted to reduce significantly.

### 2.2.3 Kerala

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Kerala in the basins Pamba, Periyar, Chalakudi, Bharathapuzha, Valapatnam and Kabini in the districts of Idukki, Pattanamthitta, Ernakulam, Thrissur, Palakkad, Malapuram, Wynadu and Kannur. Since most of the dams in these rivers are having very low storage,



the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. However, in the downstream of the dams in the river due to precipitation from free catchment, there is likelihood of rapid rise in Water Levels for which necessary precautions have to be taken. As per the latest trends, it is seen that River Periyar at Neeleswaram (Ernakulam Dist), River Pamba at Malakkara (Pattanamthitta Dist) has started rising due to ongoing rainfall activity. Hydrograph is attached.



## 2.2.4 Karnataka

Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Karnataka in the basins of Cauvery, Tunga, Bhadra and West Flowing rivers such as Netravathi in the districts of Kodagu, Chikmagalur, Hassan, Shivamogga, Dakshina Kannada, Udupi and Uttara Kannada . Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. However, in the downstream of dam in the river due to precipitation from free catchment, there is likelihood of rapid rise in Water Levels for which necessary precautions have to be taken.

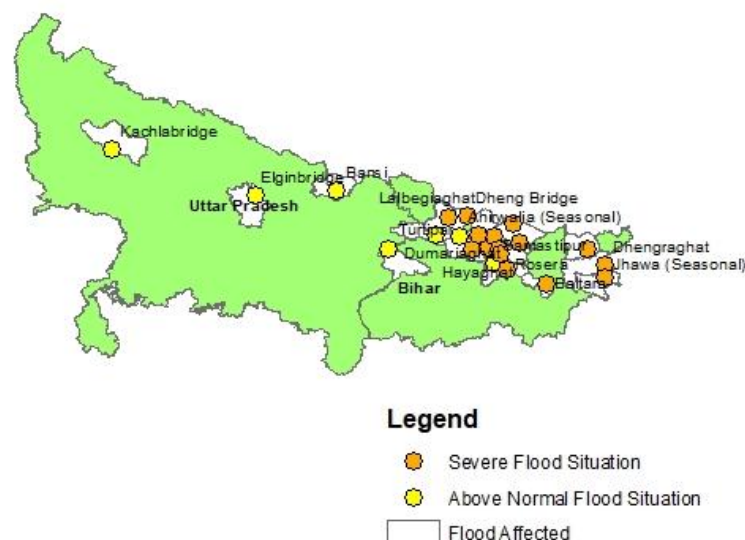
## 2.2.5 Tamilnadu

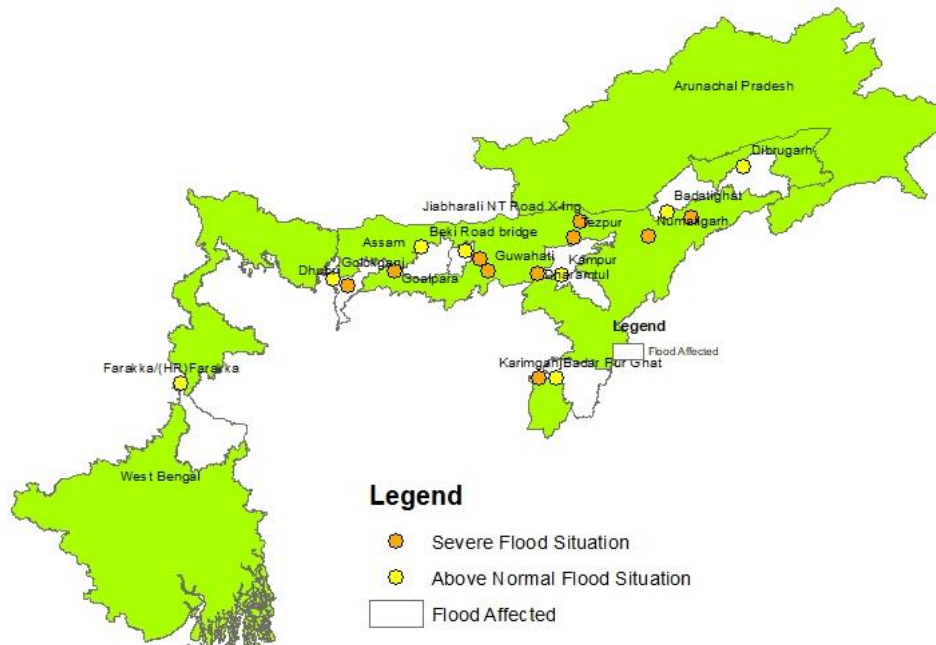
Due to the rainfall predicted, there is likelihood of rapid rise in Water Levels in rivers in Hilly regions of Coimbatore, Nilgiris, Theni, Dindigul, Tirunelveli and Kanyakumari in the basins of Bhavani, Amaravathy, Moyar, Vaigai, and Tamraparini. Since most of the dams in these rivers are having very low storage, the rainfall in the catchment upstream of these dams will help improve the storage levels of the reservoirs. If rainfall is continuing for such intensity in these districts then dams in Bhavani and Amaravathy may fill up fast. Accordingly project authorities should take precaution.

## 2.2.6 Punjab, Haryana and North Rajasthan

There has been continuous rain in many parts of Punjab, Haryana, Chandigarh (UT) and North Rajasthan for the past 48 hours. As per media reports, there have been floods in River Ghaggar in Patiala District There has also been continuous rain in Bhatinda and its neighbouring areas during the last 3-4 days leading to flood like situation in many of the rivulets in the districts of Patiala, Bhatinda and in districts bordering Haryana and North Rajasthan. However as the rainfall is likely to reduce significantly, the river and rivulet levels are likely to fall during the next 12-24 hours.

**Map showing Flood Situation in UP & Bihar and Brahmaputra & Barak Basin on 18.07.2019**

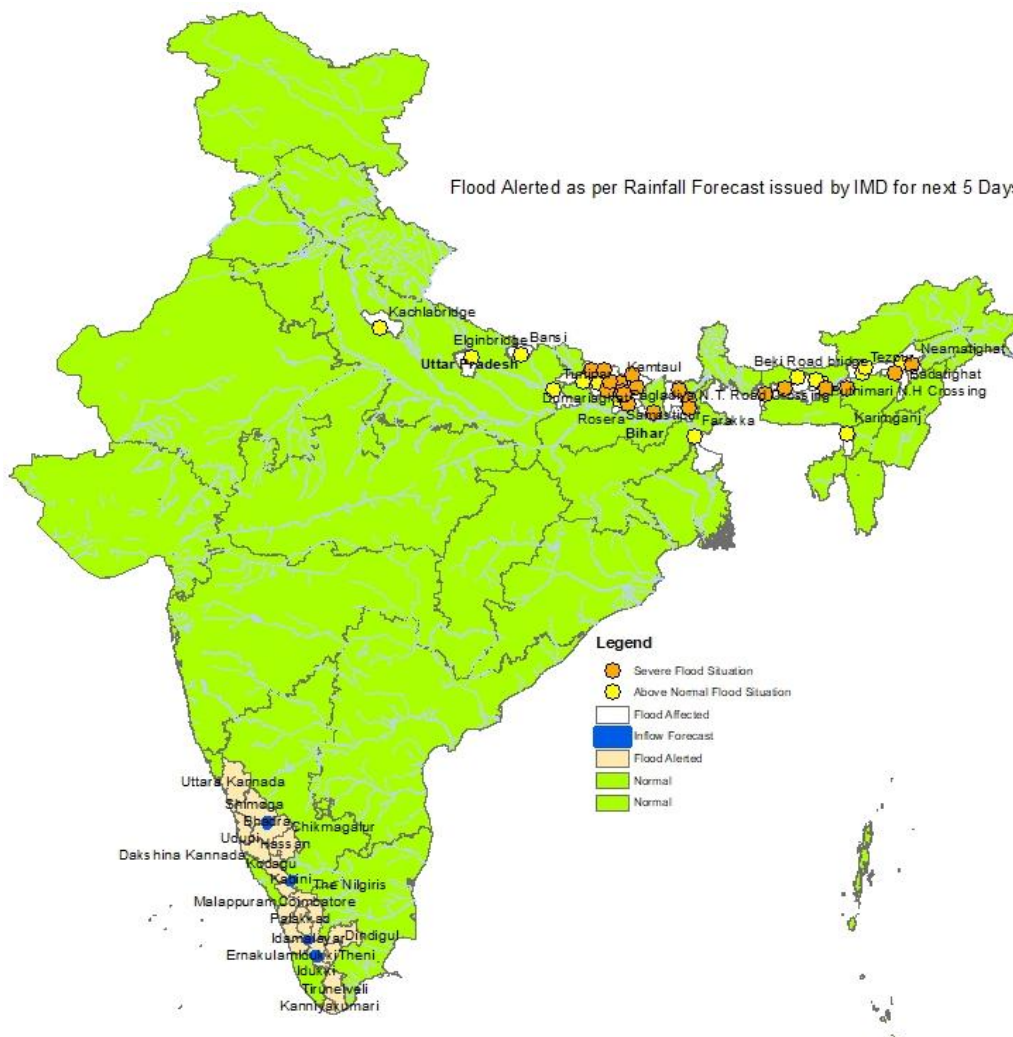




**Flood Affected Districts include:**

**Bihar:** Araria, Sitamarhi, Gopalganj, Kishanganj, Purnia, Madhubani, Katihar, Muzaffarpur.  
**Assam:** Dibrugarh, Lakhimpur, Jorhat, Golaghat, Sonitpur, Nagaon, Morigaon, Kamrup, Barpeta, Goalpara, Dhubri, Cachar, Hailakhandi, Karimganj  
**Uttar Pradesh:** Barabanki, Faizabad, Balrampur, Kushinagar, Ballia, Badaun.

**Map showing Flood Situation over the Country on 18<sup>th</sup> July 2019**



## **Flood Alerted for next 5 days**

**Kerala:** Idukki, Ernakulam, Thrissur, Palakkad, Wynad

**Karnataka:** Chikmagaluru, Hassana, Kodagu, Shivamogga, Dakshina Kannada, Udupi and Uttara  
Kannada

**Tamilnadu:** Nilgiris, Coimbatore, Theni, Dindigul, Tirunelveli and Kanyakumari