

## Daily Flood Situation Report cum Advisories 19-08-2019

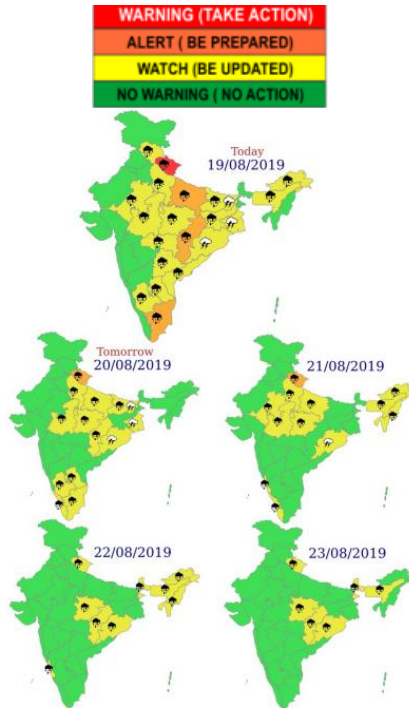
### 1.0 IMD information

#### 1.1 Rainfall Situation

##### 1.1.1 Amount of rainfall recorded at 0830 hours IST of today (5 cm or more) as per IMD

Name of Place (State)	Rainfall (in cm)
Daltonganj (Jharkhand)	18
Tirupuvanam (TN)	17
Arki (HP), Nakur (UP), Marora (Haryana), Melalathur, & Ambur (TN)	12 each
Chamoli (Uttarakhand)	11
Pasighat (Arunachal Pradesh), Rajghat (UP), Davangere (Karnataka)	10 each
Periyakulum (Tamil Nadu), Dadupur (Haryana), Guntur (Andhra Pradesh), Julapalle (Telangana), Gudiyattam (TN)	9 each
Balisankara (Odisha), Jaithari (MP), Malavalli (Karnataka), Madurai Airport (TN)	8 each
Mehre (HP), Devprayag, Karnaprayag, Banbasa, Nainital & Uttarkashi (Uttarakhand), Narayangarh (Haryana), Piplada (Rajasthan), Nayagarh (Odisha), Narsingharh (MP), Rasipuram, Srivilliputhur, Tirupathur & Andipatti (TN)	7 each
Chaukutia & Jakholi (Uttarakhand), Barara (Haryana), Mohammedbad (UP), Belanguntha (Odisha), Teekamgarh, Orchcha & Dabra (MP), Kuppady (Kerala), Gersoppa (Karnataka)	6 each
Varanasi, Kiserganj, Nazibabad, Atrauli & Shardanagar (UP), Derabassi (Punjab), Dungripalli, Panposh, Madhabarida, Harabhanga, Rajgangpur, Jagannath Prasad, Tensa & Champua (Odisha), Sarangpur, Bhanpura & Khurai (MP), Punalur & Kodungallur (Kerala), Manki (Karnataka)	5 each

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



## 2.0 CWC inferences

### 2.1 Flood Situations as per actual/ forecasted rainfall situation

FLOOD SITUATION SUMMARY		
<b>PART - I: LEVEL FORECAST</b>		
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)	<b>0</b>
<b>B</b>	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	<b>9</b>
<b>C</b>	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	<b>21</b>
Total number of sites above Warning Level ( A+B+C)		<b>30</b>
<b>PART - II: INFLOW FORECAST</b>		
Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)		<b>26</b>

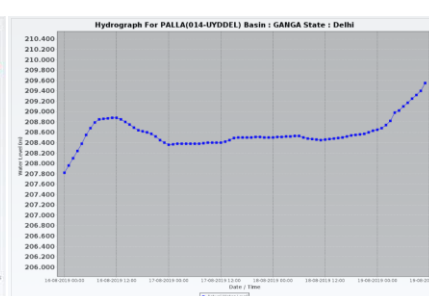
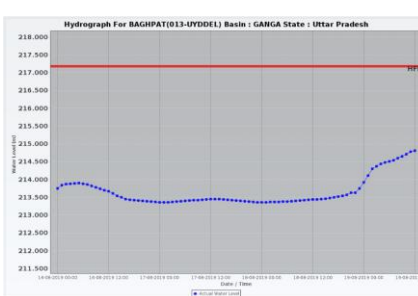
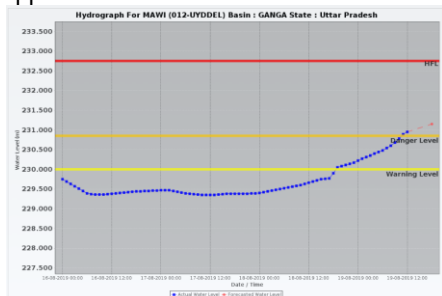
For details please visit: <http://cwc.gov.in/sites/default/files/cfcr-cwcdfb-19082019.pdf>

#### 2.1.1 Yamuna Basin for States of Himachal Pradesh, Haryana and NCT, Delhi

Due to extremely heavy rainfall in catchment areas of Himachal Pradesh, Uttarakhand and Haryana, river Yamuna and its tributaries Giri, Tons rose sharply yesterday i.e. 18<sup>th</sup> August 2019. River Yamuna at Paonta in Sirmour District of Himachal Pradesh flowed in Severe Flood Situation. Downstream of Paonta is the Hathnikund Barrage in Yamunanagar District of Haryana. Peak Flow over Hathnikund Barrage was around 8,28,072 cusec at 1800 hrs. on 18<sup>th</sup> August 2019 after that it started falling and is presently having a discharge of 2,21,785 cusec at 1100 hrs on 19<sup>th</sup> August.2019. The flow from Hathnikund generally takes about 30 hours to reach Mawi in Muzzafarnagar Dist of Uttar Pradesh and around 60 hours to reach Delhi Railway Bridge in North Delhi District of NCT, Delhi.

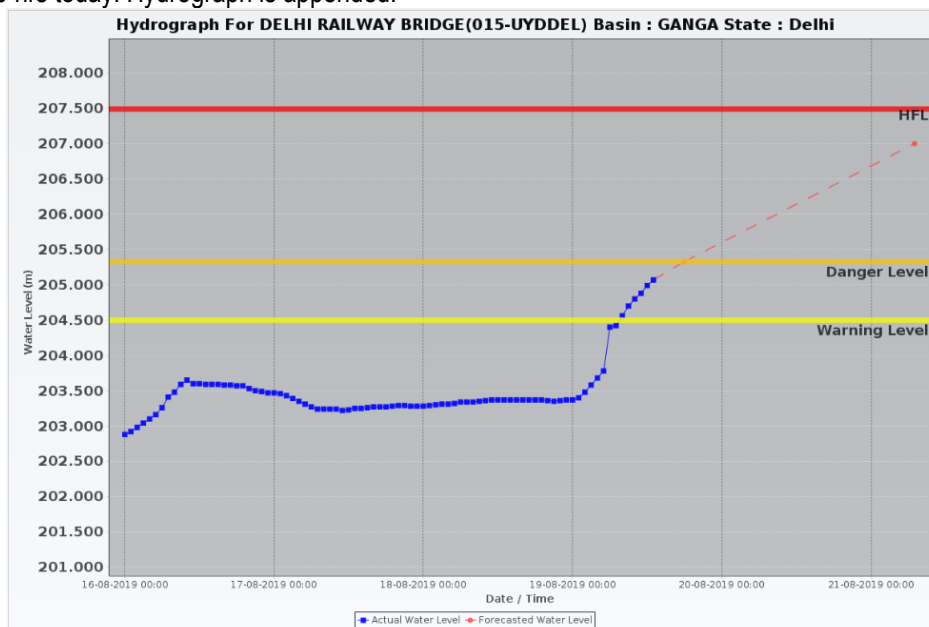
Due to the overflow at Hathnikund Barrage, River Yamuna at Kalanaur in Saharanpur District of Uttar Pradesh rose sharply yesterday and reached a peak of 268.15 m at 0100 hrs of today compared to Highest Flood Level of 268.66 recorded on 8<sup>th</sup> September 2010. At Karnal in Karnal District of Haryana, the river crossed Warning Level and is flowing in Above Normal Flood Situation and is likely to reach it peak shortly and then slowly fall. It will not cross Danger Level.

At Mawi at Muzzafarnagar District, river Yamuna crossed Warning Level of 230 m yesterday evening at 1900 hrs and has crossed Danger Level of 230.80 m at 1100 hrs today. It is likely to rise to 231.15 m by 1800 hrs of today. Hydrograph is appended.



River Yamuna at Baghpat in Baghpat District of Uttar Pradesh and at Palla in North Delhi District of NCT, Delhi is rising. Hydrographs of the two sites are appended above.

River Yamuna at Delhi Railway Bridge in North Delhi District of NCT Delhi is rising as the Wazirabad Barrage upstream of the station is releasing water in anticipation of the expected flow. The rise at the stations is mainly due to the fact that the downstream Okhla Barrage operated by Government of UP is not releasing commensurate with the releases from Wazirabad Barrage. Delhi Railway Bridge is likely to cross Danger level of 205.33 by 1800 hrs and is likely to flow around 205.33 m by 1800 hrs today. Hydrograph is appended.



Mathura Prayag Ghat in Mathura District is also likely to flow in Severe Flood Situation. Necessary Precautionary measures may be taken in the reach between Source regions of Yamuna and its tributaries upto Mathura.

## 2.1.2 Landslide Dam in Kangra Valley

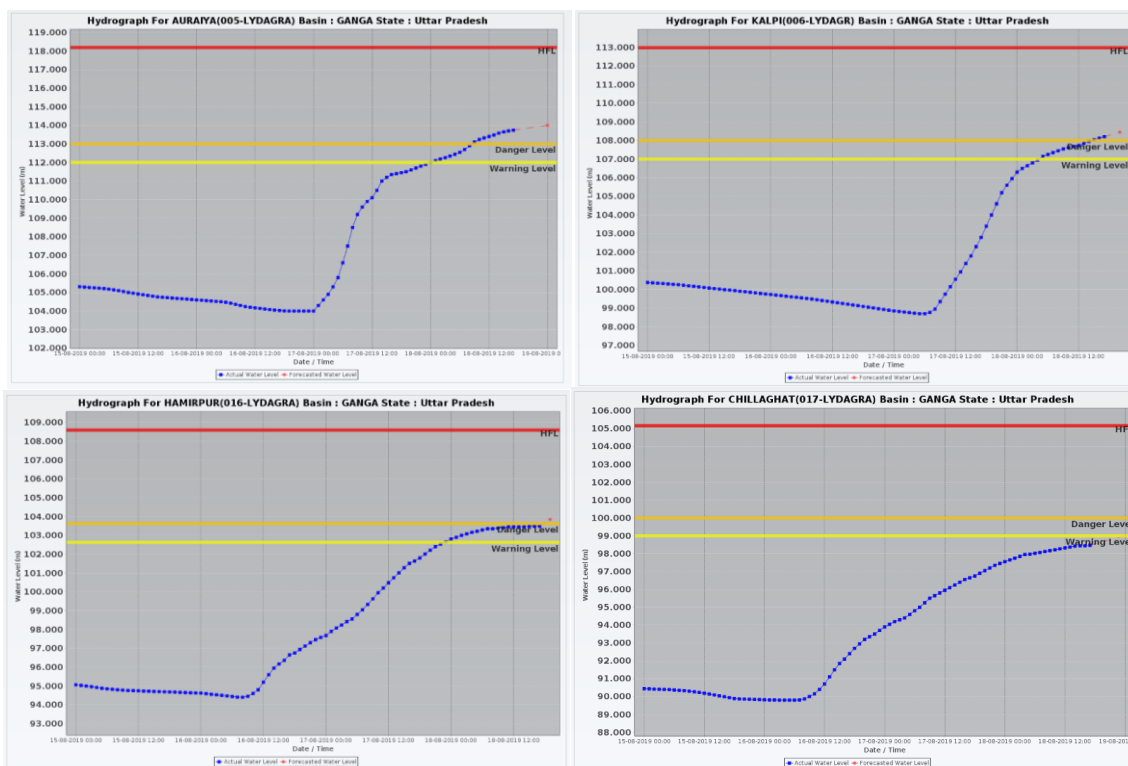
It has been reported that a big reservoir has been created in village Khadetar (Lat. 32.3695790, Long.75.9467460) of Gram Panchayat Danni, Tehsil Nurpur on Jabbar Khad (about 1km long and about 30 ft deep) due to massive land slide. Land slide is continuously going on. There are chances of flooding in downstream of this reservoir in case this dam breaks. There should be evacuation upto about 30 km downstream of the lake.

A simulation study was undertaken by CWC in which it is found that the maximum discharge will be of the order of 460 cumec for a dam height of 12 m, Estimated Volume of the lake at 0.5 million cubic metre, breach width is 60 m in 30 minutes time with a depth of 11 m at the breach location and reduces to 300 cumec by 40 km downstream of breach location in 2 hours. The maximum water level rise at the breach location is around 2.63 m and less than 2m downstream of breach location at about 40 km.

## 2.3 Chambal & Yamuna Basins in Rajasthan & Uttar Pradesh

Due to ongoing extremely heavy rainfall in Madhya Pradesh and Rajasthan in Chambal Basin, river Chambal and its tributaries in Madhya Pradesh and Rajasthan were rising rapidly. River Chambal downstream of Kota Barrage in Rajasthan

was flowing in Severe Flood Situation at Dholpur in Dholpur District of Rajasthan. Due to the rise in Chambal, river Yamuna was rising rapidly at Auraiya in Auraiya District, Kalpi in Jaluan District and Hamirpur in Hamirpur District of Uttar Pradesh. Hydrographs of stations are appended.



## 2.4 Sutlej, Ravi, Beas & Ghaggar Basins

Due to ongoing extremely heavy rains in Himachal Pradesh & Punjab, rivers Sutlej, Ravi, Beas & Ghaggar are rising rapidly. Due to increased inflows in Bhakra Dam, Pong Dam and Pandoa Dam, there were releases from these dams.

## 2.5 Krishna Basin in States of Karnataka, Telangana and Andhra Pradesh

In Karnataka due to combined effect of Krishna, Ghataprabha, Malaprabha and Bhima, the inflows into major dams are still continuing to be around 2 to 3 Lakh cusec in Almatti, Narayanpur dams in Vijayapura and Yadgir Districts. The combined inflow of Krishna and Bhima is being received in P D Jurala Project in Jogulamba Gadwal in Telangana which is being released downstream to Srisailem Dam in Kurnool District of Andhra Pradesh. As Srisailem dam reached near to its Full reservoir Level (FRL), they have started releasing to Nagarjunasagar Dam in Nalgonda District of Telangana. However, the releases from Srisailem are being maintained at around 4 to 5 Lakh cusec. Releases from NS Dam and Pulichintala project is flowing to Prakasam Barrage. The overflow from Prakasam Barrage flowed through Avanigadda in Krishna District which flowed in Above Normal Flood Situation.

## 2.6 Cauvery Basin in States of Kerala, Karnataka and Tamilnadu

Most of the dams in Upper Cauvery Basin have nearly attained their FRL and have started releasing excess flow. As the rainfall has reduced considerably, the outflows from Kabini, Harangi, Hemavathi and KRS Dam have been reduced significantly. However, caution has to be exercised in releasing excess flow as most of the dams are very near or at FRL.



Even a moderate rainfall of around 10 to 30 mm may give rise to increased inflows. Mettur Dam will be receiving the inflows from all upstream dams and may get very near to FRL. Proper releases have to be done in case of any heavy releases from upstream dams.

During the last 3 days heavy to very heavy rain has occurred in interior districts of Tamilnadu even though no major flood has been observed in rivers such as Palar and Ponnaiyar basins where these rainfall has occurred, there are localized flooding and inundations in some of the towns like Vellore, Tiruvannamalai etc.

## 2.7 Ganga Basin

Due to ongoing heavy to very heavy rain in parts of Uttarakhand and Uttar Pradesh, there is chance of rise in water levels in Alaknanda, Mandakini, Bhagirathi, Ramganga, Ganga, Sharda, Sarju, Ghaghra, Rapti rivers. River Ganga is flowing in Severe Flood Situation in Badaun District, Above Normal at Haridwar and Dehradun Districts of Uttarakhand, Ballia in Balli District of Uttar Pradesh and Patna Gandhighat in Patna District of Bihar. River Ghaghra is flowing in Severe to Above Normal flood situation in Barabanki, Faizabad and Ballia Districts of Uttar Pradesh and in Siwan District of Bihar..

### Flood Affected Districts

<b>Uttar Pradesh:</b>	Badaun, Barabanki, Faizabad, Ballia, Lalitpur, Auraiya, Jalaun, Etawah, Hamirpur, Saharanpur, Shamli.
<b>Rajasthan:</b>	Sawaimadhopur, Kota, Karrauli, Dholpur
<b>Haryana:</b>	Yamunanagar
<b>Himachal Pradesh:</b>	Sirmour, Shimla & Kinnaur
<b>Uttarakhand:</b>	Dehradun

### Flood Alerted Districts

<b>Uttarakhand:</b>	Districts in the basins of Alaknanda, Bhagirathi, Yamuna, Ramganga, Sharda, Sarju
<b>UP:</b>	Districts in Chambal, Yamuna, Ganga & Ghaghra basins
<b>HP &amp; Punjab:</b>	Districts in basins of Sutlej, Ravi, Beas, Yamuna and Ghaggar





### Flood Affected and Alerted Districts in the Country

