

Daily Flood Situation Report cum Advisories 05-09-2019

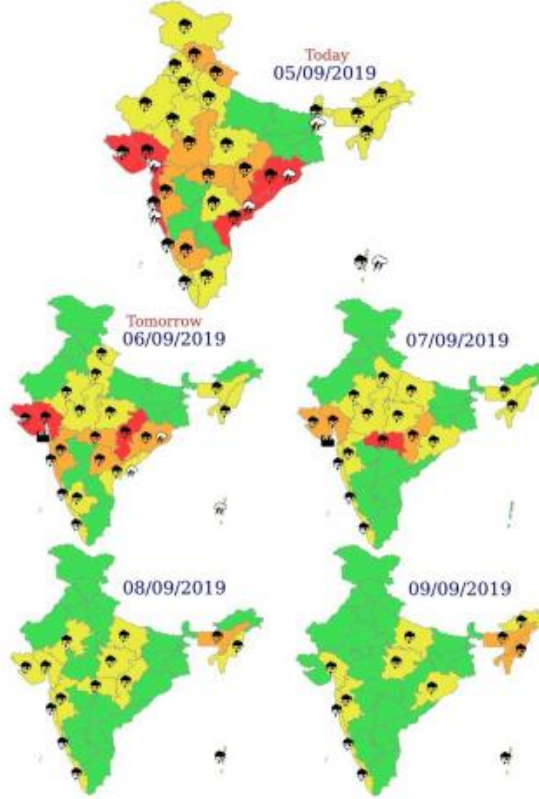
1.0 IMD information

1.1 Rainfall Situation

1.1.1 Amount of rainfall recorded at 0830 hours IST of today (10 cm or more) as per IMD

| Name of Place (State) | Rainfall (in cm) |
|--|------------------|
| Dharavi (Maharashtra) | 31 |
| Vasai (Maharashtra), Vapi (Gujarat) | 27 each |
| Bhagamandala (Karnataka) | 26 |
| Santacruz (Maharashtra), Pardi (Gujarat) | 24 each |
| Tbia (Maharashtra) | 22 |
| Koyna (Maharashtra) | 21 |
| Matheran (Maharashtra) | 20 |
| Mahabaleshwar, Panvel & Tamini (Maharashtra), Khanvel (Gujarat), Rajpura (Punjab) | 19 each |
| Patiala (Punjab), Thane (Maharashtra) | 18 each |
| Raigarh (Chhattisgarh), Gaganbawada (Maharashtra) | 17 each |
| Gadchiroli & Roha (Maharashtra) | 16 each |
| Kolasib (Mizoram), Karjat & Tala (Maharashtra), Umergam, Gandevi & Olpad (Gujarat), Daman (Daman & Diu), Gudalur Bazar (TN), Ottappalam (Kerala) | 15 each |
| Bulsar & Valsad (Gujarat), Harnai, Poladpur, Khed, Dunderwadi & Sudhagad Pali (Maharashtra), Susner (MP), Ponnampet & Madikeri (Karnataka) | 14 each |
| Alibagh, Kankavil & Sawantwadi (Maharashtra), Amarwara (MP), Napoklu, Sulya, Mani & Gersoppa (Karnataka), Berhampur & Aska (Odisha), Gohar (HP) | 13 each |
| Sindewahi, Bhira, Palghar, Dawdi, Shirgaon & Talasari (Maharashtra), Masturi (Chhattisgarh), Gotegaon (MP), Dharampur (Gujarat) | 12 each |
| Gopalpur & Sorada (Odisha), Mangrol (Gujarat), Naduvattam (TN), Siddapur & Hunchadakatte (Karnataka), | 11 each |
| Katra (J&K), Khirkiya & Silwani (MP), Ulhasnagar, Radhanagri, Wada & Mhasla (Maharashtra), Dhoraji & Vagra (Gujarat), Kollur (Karnataka), Perinthalmanna & Mananthavady (Kerala) | 10 each |

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



2.0 CWC inferences

2.1 Flood Situations as per actual/ forecasted rainfall situation

| 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)) | 2 |
| C | Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level) | 23 |
| Total number of sites above Warning Level (A+B+C) | | 25 |
| 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) | | 32 |

For details please visit: <http://cwc.gov.in/sites/default/files/cfrcwcdffb05092019.pdf>

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जल संरक्षण-सुरक्षित भविष्य



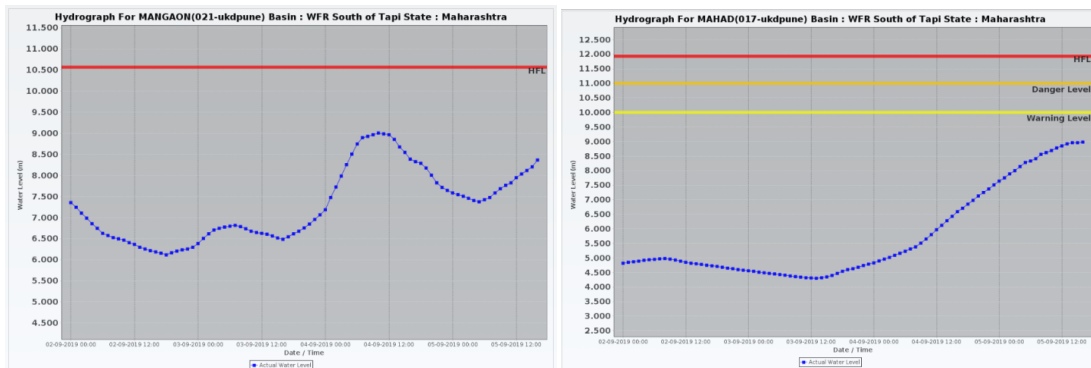
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Conserve Water – Save Life



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

There has been extremely heavy rainfall recorded till today morning along with the forecast of extremely heavy rain for next 24 hours and heavy to very heavy rainfall for next 2 days and heavy rainfall for next 2 days in Konkan & Goa and in Hill ranges of Western Ghats in Maharashtra. There is probability of sudden rise in water levels in West Flowing Rivers between Tapi and Tadri in States of Maharashtra, Goa and UT of Dadra & Nagar Haveli and Daman & Diu, such as rivers Damanganga, Ulhas, Savithri, Kal, etc. Maximum vigil is to be maintained along the low lying areas of these rivers which are near to Railway lines and Highways during the above period. Small Dams in these reaches may get filled up and start releasing excess water at short notice. River Kal a tributary of River Savithri at Mangaon in Raigad District is rising. River Savithri at Mahad in Raigad District is also rising. Hydrographs are attached.

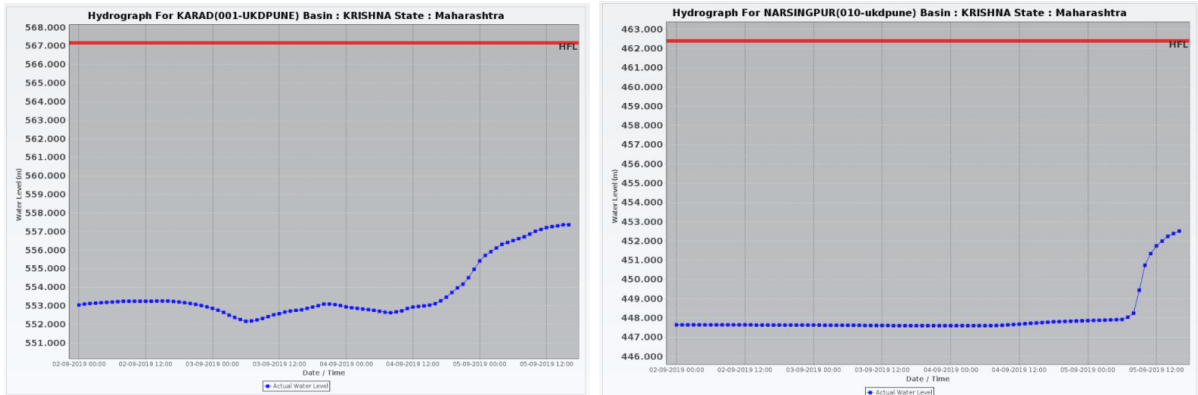


Mumbai and its suburban areas had Extremely Heavy rains. There is likelihood of continuing rains for another 12 to 24 hours. This will create local drainage congestion and inundation of low lying areas creating an urban flood like situation. Maximum vigil is to be maintained for the flood situation as there is prediction of rough seas in association with strong monsoon currents.



Due to forecast of Heavy to very heavy rain in the Ghat areas of Maharashtra in the districts of Pune, Satara, and Kolhapur, rivers Bhima and Krishna are rising again. Maximum vigil is to be maintained while releasing waters from dams in these basins as most of the dams are already more than 90% filled. 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 in downstream reach especially in Krishna Basin.

Mahabaleshwar in Satara District being in the source regions of Krishna, Koyna & Savithri rivers has recorded 51 mm rainfall between 0830 and 1730 hrs today in addition to 19 cm rainfall recorded upto today morning 0830 hrs. Total of 37 cm of rainfall has occurred from 3rd September to 5th September. This is contributing to inflows in Koyna Dam which is releasing around 70,000 cusec from today afternoon. Since many of the small dams in the catchment areas of Krishna are also releasing, there is probability of rise in level of river Krishna in Satara, Sangli and Kolhapur District. River Krishna at Karad in Satara District is rising. Hydrograph is given below.

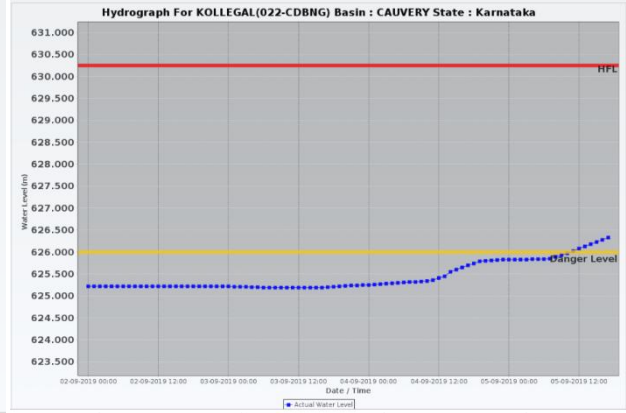
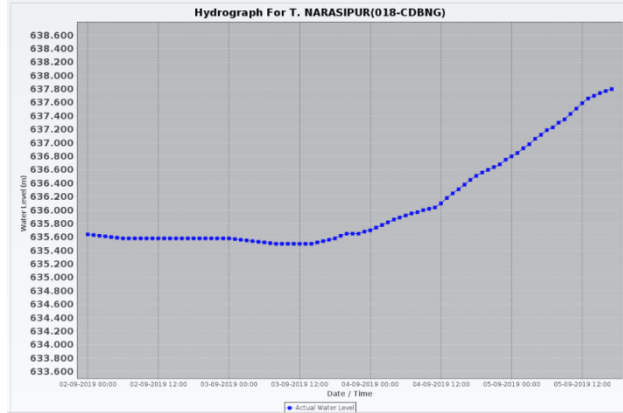


Hippargi Barrage, Almatti Dam and Narayanpur Dam in Karnataka are getting an inflow of around 58,000 to 65,000 cusec and in order to maintain flood cushion Almatti and Narayanpur Dams are releasing around 1.85 Lakh cusec from 1330 hrs and the level of Almatti Dam has fallen from 519.57 m to 519.20 by 1500 hrs. Besides this Hidkal Dam and Malaprabha dam are also likely to get increased inflows which will be raising the water levels in Gokak in Belagavi District and Cholachguda in Bagalkote District. All these rivers will be contributing to the inflows into P D Jurala project in Telangana which is likely to get an inflow of around 1,40,000 cusec by tomorrow morning. This will increase further as river Bhima also may contribute to flooding due to releases being done from Bhima Basin upstream dams. River Bhima at Narsingpur in Sholapur District is rising. Hydrograph is given above.

In continuation, Srisaillam Dam in Andhra Pradesh, Nagarjunasagar Dam in Telangana, Dr KLRS Pulichintala Project and Prakasam Barrage in Andhra Pradesh are also likely to get increased inflows during the next 3-5 days. As all the dams mentioned above are at or near FRL, maximum vigil is to be maintained. Due to forecast of extremely heavy rainfall in Ghat areas of Shivamogga and Chikmagalur District in the Upper Tungabhadra basin, river Tungabhadra is also likely to contribute to the flows in Srisaillam Dam as Tungabhadra Dam is also having inflows above its criteria which will be released downstream as that Dam is also at FRL.

2.1.2 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. Bhagamandala the source of river Cauvery has recorded around 26 cm rainfall in the past 24 hours. There is a forecast of extremely heavy rainfall in the districts of Kodagu and Chikmagalur Districts in the catchment areas of Cauvery for next 24 hours and then the rainfall intensity may reduce to heavy rainfall for another 24 hours. This situation is leading to increased inflows into all the upstream dams. Since most of the dams are near or at FRL, they have started releasing excess flow. This may lead to rise in water levels in the downstream areas in the districts of Mysuru, Mandya, and Chamarajnarag Districts. River Kabini at T Narasipur in Mysuru District is rising and is 0.2 m below its Danger Level. River Cauvery at Kollegal is flowing in Severe Flood Situation with rising trend. Hydrograph are shown below:



The flows from these dams will start affecting Dharmapuri, Krishnagiri and Salem Districts of Tamilnadu in the next 24 to 48 hours.

2.1.3 Advisory in connection with low pressure area over Odisha, Chhattisgarh, Telangana & Andhra Pradesh

There is forecast of extremely heavy rainfall in Odisha, Chhattisgarh, North Coastal Andhra Pradesh for next 24 hours. This may lead to rise in Water Levels in basins of East Flowing Rives between Mahanadi and Godavari as well as over Subamarekha, Burhabalang, Brahmani, Baitarani, Mahanadi, Wainganga, Wardha, Indravathi and Sabari sub-basins of Godavari Basin. There is likelihood of rise in water levels in most of these basins. River Vamsadhara at Kashinagar is flowing in Above Normal Flood Situation.

2.2 Flood Alerted Districts

- Maharashtra:** Palghar, Thane, Raigad, Ratnagiri, Sindhudurg, Pune, Satara, Kolhapur along the river course of West Flowing Rivers and Krishna, Bhima & their tributaries
- Karnataka:** Bagalkote, Belagavi, Vijayapura, Yadgir, Raichur, Chikmagalur, Shivamogga, Koppal, Ballari (along the course of rivers **Krishna, Tungabhadra**), Kodagu, Hassan, Mysuru, Chamarajnagara, Mandya (along the course of rivers **Cauvery, Harangi, Hemavathi and Kabini**)
- Kerala:** Wynad along the course of river Kabini
- Tamilnadu:** Dharmapuri, Krishnagiri and Salem along the course of river Cauvery
- Andhra Pradesh:** Srikakulam, Vizianagaram Districts along the river course of **Nagavali and Vamsadhara** and East Godavari along the river course of **Sabari and Godavari**
- Odisha:** Ganjam, Rayagada (along river courses of **Rushikulya and Vamsadhara**), Koraput, Nowrangpur, Malkangiri (along river courses of **Indravathi and Sabari**)



Flood Affected/ Alerted Districts in the Country

