



National Agromet Advisory Service Bulletin
Based on
Extended Range Weather Forecast (ERFS)

Validity: (28th February to 12th March 2020)

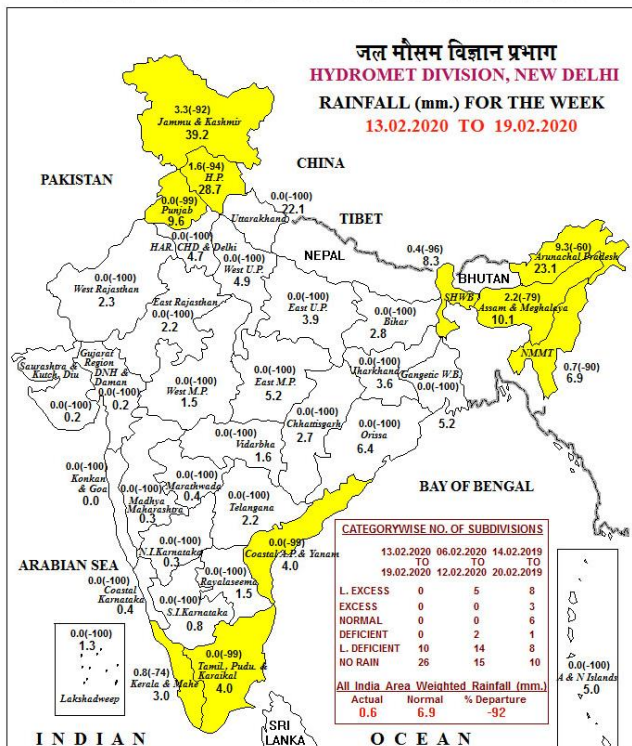
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&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (13th to 26th February, 2020)

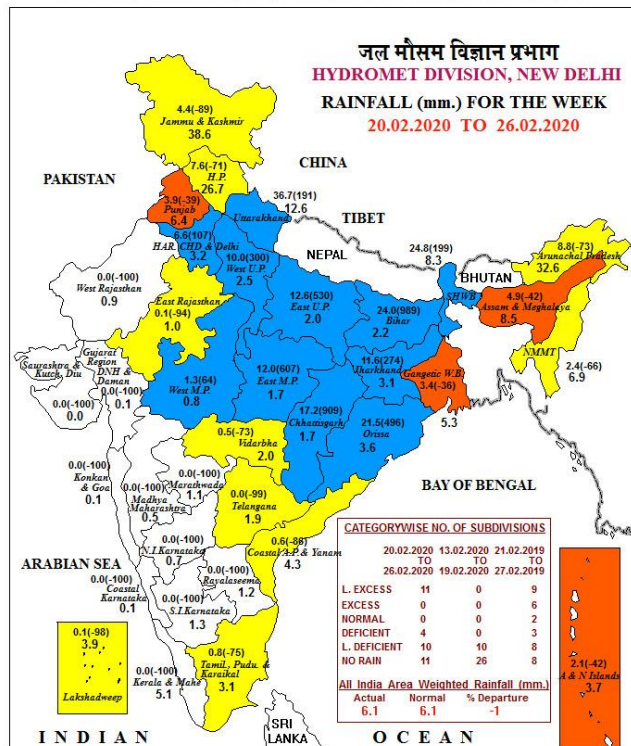
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) NO RAIN [-100%] NO DATA

NOTES:
 [a] Rainfall figures are based on operational data.
 [b] Small figures indicate actual rainfall (mm.), white bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



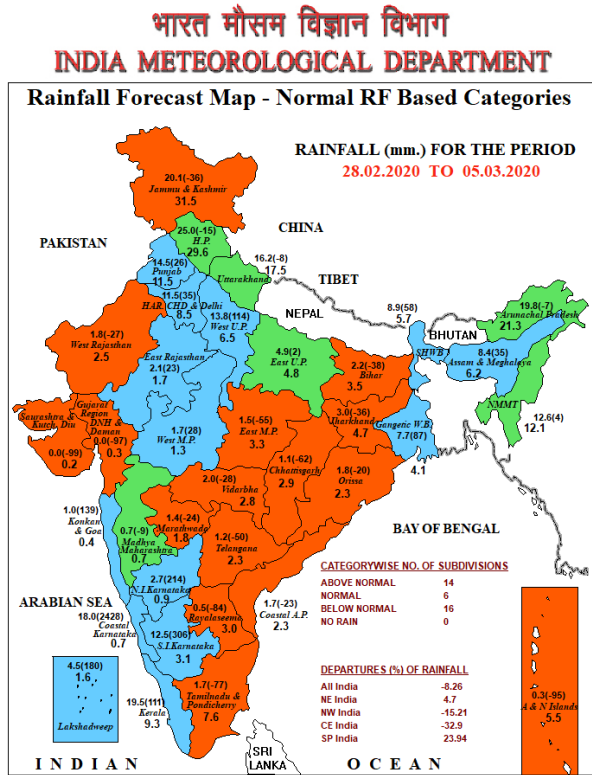
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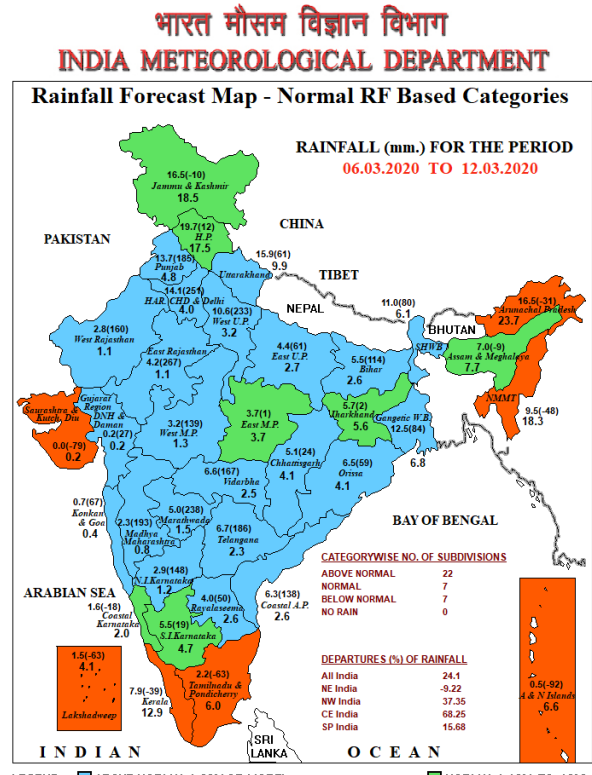
- Normal or above normal rainfall occurred during last week in Haryana, Chandigarh & Delhi, Uttar Pradesh, Uttarakhand, Bihar, Jharkhand, Sub-Himalayan West Bengal, Madhya Pradesh, Chhattisgarh and Odisha.
- Below normal rainfall/no rain occurred over rest of the country in either of the two weeks.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 26 February) (28th Feb. to 12th March 2020)



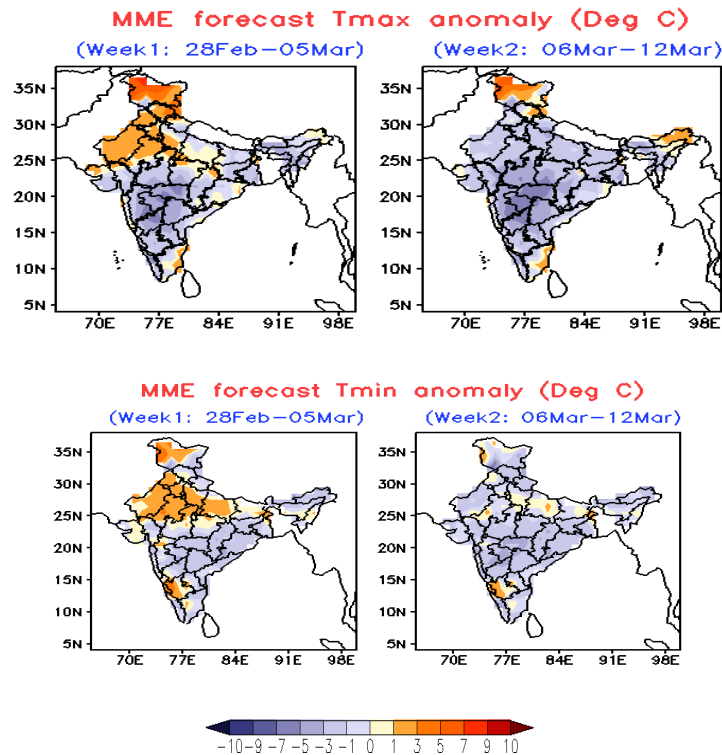
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- **Week 1 (28.02.2020 to 05.03.2020) and Week 2 (06.03.2020 to 12.03.2020):** Rainfall associated with Western Disturbance is likely over extreme north India (Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Punjab, Haryana and adjoining region) during the week. Also, parts of north-eastern states likely to get some rainfall.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 26 February)
(28th Feb. to 12th March 2020)**



Maximum Temperature (Tmax)

- **Week 1 (28.02.2020 to 05.03.2020):** Tmax (Maximum temperature) is likely to be above normal over north-west India, adjoining north India. Above normal Tmax over some parts of eastern coastal region. However, most parts of central India, south peninsula Tmax will be below normal.
- **Week 2 (06.03.2020 to 12.03.2020):** Except some parts of northern-most India, most parts of central India, India, south peninsula and central India Tmax will be below normal.

Minimum Temperature (Tmin)

- **Week 1 (28.02.2020 to 05.03.2020):** Tmin anomaly is mostly negative over south-eastern coast, central India and south peninsula during week 1. However, in the north-west India there will be above normal Tmin.
- **Week 2 (06.03.2020 to 12.03.2020):** Tmin anomaly is mostly negative over India particularly in Week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 12th March 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 634.3 mm (24% excess) during the period of 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) is above normal for week-1 and below normal for week-2.

- There is a chance of panama wilt in banana varieties like poovan, kadali etc. Hence, it is advised to drench the soil with 1 g of Carbendazim in one litre of water.
- Because of increase in temperature, it is advised to adopt measures for summer protection like mulching, shading, white washing and making fire belts in rubber crop.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 462.8 mm (-3% deficit) during the period of 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) is below normal for week-1 and week-2.

- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using Casuarinas poles.
- To arrest excessive vegetative growth in gram, nipping followed by spray of NAA@ 30ppm is advised.
- Prevailing weather condition is favourable for die back in chilli. To control, three sprayings with Wettable Sulphur or Copper Oxy Chloride 0.25% or Zineb 0.15% is advised.

Maharashtra

Rainfall received over Madhya Maharashtra is 228.6 mm (116% large excess), over Marathwada is 260.3 mm (144% large excess), Vidharbha is 92.2 mm (-7% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast for next two weeks (28 Feb - 05 March and 06 - 12 March 2020) over Marathwada and Vidharbha is below normal, over Konkan is above normal and over Madhya Maharashtra is normal for week-1 and above normal over Marathwada, Konkan, Vidharbha and Madhya Maharashtra for week-2.

Madhya Maharashtra

- Ploughing in the field is advised immediately after harvesting of *rabi* crops to bury stubbles and to control soil born pest and diseases.
- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.

Marathwada

- For management of sucking pest in vegetable crops, it is advised to spray Fenprothrin 30 % @ 3 ml per 10 litre of water.
- For management of white fly in sugarcane crop, it is advised to use of 2 to 3 Tricho cards per hector with an interval 10 days for 4 to 6 times or spray of Chlorpyrifos 20 % @ 30 ml or Fipronil 5% @ 30 ml per 10 litre of water is advised.

Vidharbha

- Due to increase in evaporative demand, basin mulching in young plantation of orchards is advised to conserve moisture and maintain thermal regime.
- In farm livestock preventive vaccination for foot and mouth disease (FMD) and preventive deworming for flat worms is advisable.

Konkan

- Due to decrease in humidity and increase in temperature there are chances of accelerate in evaporation rate. Hence, it is advised to irrigate the newly planted mango orchard and use straw mulch to reduce evaporation losses.
- There are chances of incidences of leaf spot in groundnut. If incidence is noticed, spray of 1% Bordomixture or 0.2% Mancozeb or 0.1% carbendazim at an interval of 10 days is advised.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 258.1 mm (-7% deficit) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Himachal Pradesh is normal for week-1 and week-2.

- It is advised to monitor the mango hopper insect in mango and destroy the infected inflorescence of mango.
- Nursery preparation is advised for chili, tomato and brinjal crops in poly houses.

Hisar

Amount of rainfall received over Hisar is 58.0 mm (16% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Hisar is above normal for week-1 and week-2.

- Farmers are advised to keep vigilance on insect-pest and diseases and follow proper weed control measures and cover fruit seedling with rice straw (parali)/thatches in nursery.
- It is advised to maintain good amount of water in pond to save fishes from low temperature.
- It is advised to protect the animals from variable weather conditions and provide clean and dry bedding. Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to

keep them healthy.

Karnataka

Rainfall received during 01 Oct. 2019 - 27 Feb. 2020 over South Interior Karnataka is 307.8 mm (47% excess) and North Interior Karnataka is 245.8 mm (72% large excess). The extended range weather forecast for next two weeks (28 Feb - 05 March and 06 - 12 March 2020) over South Interior Karnataka and North Interior Karnataka are above normal for week-1 and normal over South Interior Karnataka and above normal North Interior Karnataka over week-2.

South Interior Karnataka

- Due to continuous dry spell, there are chances of termite attack in horticulture, forestry tree and shrubs. Hence, to control apply Aldrin termiticides for termites.
- It is advised to prepare silage from the harvested maize and other pulse crops to overcome shortage of green fodder.
- To protect the pulse grains from storage pests, application of oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains is advised.

Assam

Amount of rainfall received over Assam is 238.8 mm (-1% deficit) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Assam is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, farmers are advised to go for cultivation of ginger crop. To protect the crop from rhizome rot, farmers are advised to spray Indofil M-45 @ 3g/litre for half an hour.
- It is advised to prepare land for growing ridge and sponge gourd. Recommended varieties viz. AAUJ-1, AAUJ-2, AAUJ-3 etc. for ridge gourd and Pusa Chikni or other local varieties for sponge gourd cultivation.
- It is advised to prepare land for growing greengram & blackgram crop with recommended varieties viz. T9, Pant U 19, UG 157 for black gram and Kopergaon, Pratap, AAU 39 for green gram cultivation.

Jammu

Amount of rainfall received over Jammu is 406.6 mm (15% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Jammu is below normal for week-1 and normal for week-2.

- Division of suckers for the multiplication of Chrysanthemum plants is recommended.
- It is advised to rogue out the disease affected plants such as virus affected plants of tomato and black rot of cauliflower and cabbage.

Odisha

Amount of rainfall received over Odisha is 251.7 mm (57% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Odisha is below normal for week-1 and above normal for week-2.

- To prevent wilting in vegetable crops, it is advised to apply 2g Captan in 1 litre of water.
- Because of rise in temperature, there is a chance of leaf eating caterpillar and leaf minor in summer sunflower. Hence, it is advised to spray 400 ml Endosulphan/acre on sunflower crop.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 175.1 mm (80% large excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Chhattisgarh is below normal for week-1 and above normal for week-2.

- Due to prevailing cloudy weather condition there are chances of aphids in vegetables, fruit and shoot borer in brinjal. Hence, farmers are advised to keep keen watch over the crops and adopt integrated pest management practices like light trap, pheromone trap, bird perch etc. for initial control.
- Under present prevailing weather conditions, farmers are advised for sowing of cucurbitaceous crop in the bags and sowing of leafy vegetables and land preparation for the summer vegetables.
- In summer paddy crop, farmers are advised to fix pheromone trap and light trap nearby the field for the control of stem borer.

Punjab

Amount of rainfall received over Punjab is 112.2 mm (52% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Punjab is above normal for week-1 and week-2.

- To control armyworm on wheat, it is advised to spray 400 ml of Ekalux 25 EC using 80 - 100 litre of water.
- Prevailing weather is favourable for spread and development of white rust in oilseed crops. Protect the crop by spraying Ridomil Gold @ 250g in 100 litre of water per acre.

Jharkhand

Amount of rainfall received over Jharkhand is 185.1 mm (57% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over Jharkhand is below normal for week-1 and normal for week-2.

- It is advised to check the attack of pumpkin beetle in cucurbitaceous plant. Hence, wet the soil near the root zone of the plant with the insecticide Chlorpyrifos 4 ml/litre of water and on plant @ 2 ml/litre of water.
- The attack of mealy bug was observed in Papaya, Guava, Mango, Litchi and other flower plants. To

control the insect, it is advised to spray the soil near the root zone of the plant with the insecticide Chlorpyrifos @ 4ml per litre of water.

West Bengal

Amount of rainfall received over West Bengal is 282.1 mm (49% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

- Because of attack of hopper in mango, it is advised to apply 2 g Carbaril or 1.5 g Monocrotophos per litre of water.
- There are chances of occurrence of late blight late sown potato crops. Hence, farmers are advised to spray Blitox or Mancozeb @ 2.5g /litre of water at an interval of 5-7 days.

Rajasthan

Amount of rainfall received over East Rajasthan is 40.5 mm (14% excess) during 01 Oct. 2019 - 27 Feb. 2020. The extended range weather forecast provided for next two weeks (28 Feb. - 05 March and 06 - 12 March 2020) on rainfall over East Rajasthan is above normal for week-1 and week-2.

- Because of increase in temperature, farmers are advised for light irrigation in standing crops and vegetables as per requirement.
- Under prevailing weather conditions, transplanting of young seedlings of cole crop is advised.

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