



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

Validity: (21st February to 05th March 2020)

Date of issue: 21st February 2020

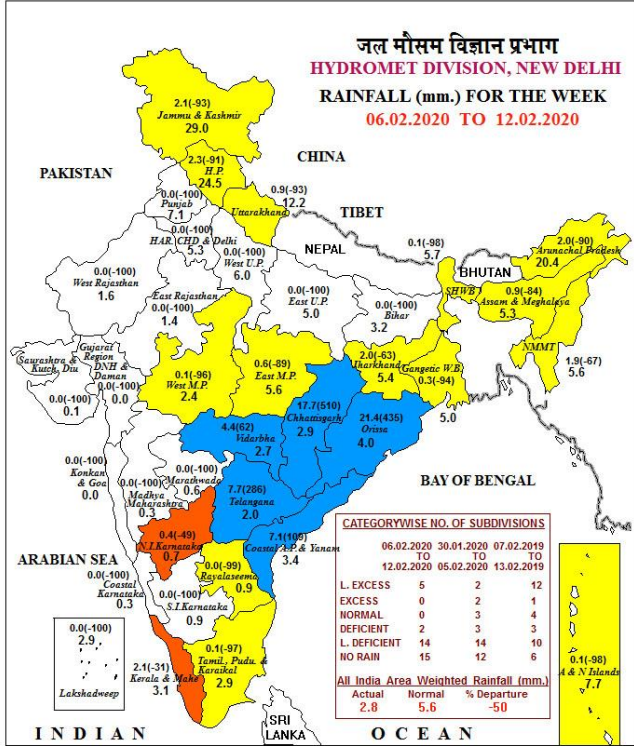
Issued by
Indian Council of Agricultural Research (ICAR)
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Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.
&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

(6th to 19th February, 2020)

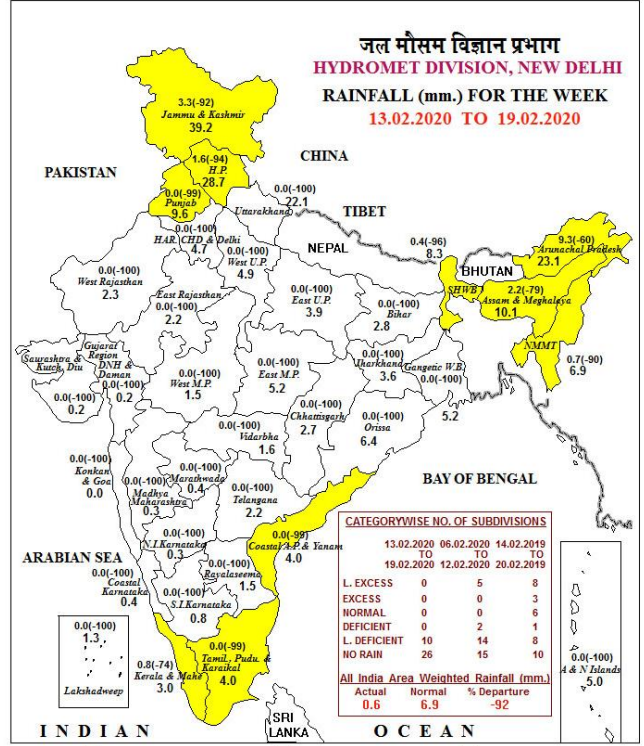
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



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.], while bold figures indicate Normal rainfall [mm.]
Percentage Departures of Rainfall are shown in Brackets.

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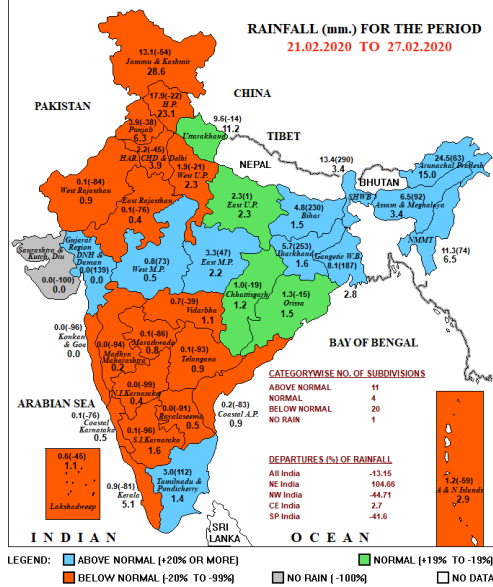
- Normal or above normal rainfall occurred in either of the two weeks in Vidarbha, Chhattisgarh, Odisha, Telangana and Coastal Andhra Pradesh.
- Below normal rainfall/no rain occurred over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 19 February) (21st Feb. to 5th March 2020)

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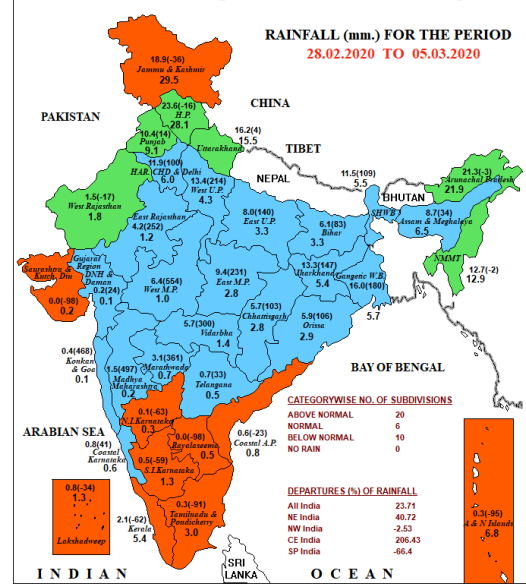
Rainfall Forecast Map - Normal RF Based Categories



NOTES:
 [a] Rainfall figures are based on MME Forecast data.
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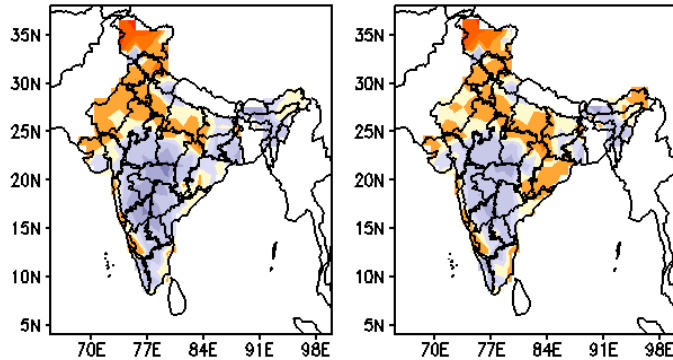
- **Week 1 (21.02.2020 to 27.02.2020):** The Western Disturbance associated rainfall over extreme north India (Jammu & Kashmir; Uttarakhand, Himachal Pradesh) is likely during the week. Also parts of northeastern states likely to get some rainfall.
- **Week 2 (28.02.2020 to 05.03.2020):** Regions of some northern parts of central India (Madhya Pradesh, Uttar Pradesh, Gangetic West Bengal, Bihar) and adjoining north-eastern region will have some rainfall.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 19 February)
(21st Feb. to 5th March 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 21Feb–27Feb)

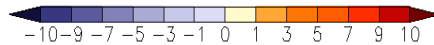
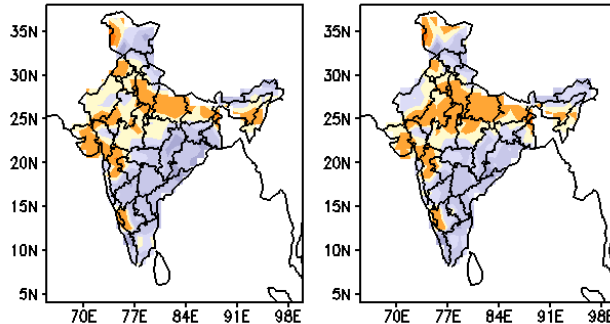
(Week2: 28Feb–05Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 21Feb–27Feb)

(Week2: 28Feb–05Mar)



Maximum Temperature (Tmax)

- **Week 1 (21.02.2020 to 27.02.2020):** Maximum temperature (Tmax) is likely to be above normal over north India, adjoining northwest India and parts of west coast of India. However, the most parts of central India, south peninsula and north eastern parts Tmax will be below normal.
- **Week 2 (28.02.2020 to 05.03.2020):** Tmax warming is also extended to eastern states like Odisha, Coastal Andhra Pradesh during the week. Over some parts of central India and south peninsular Tmax will remain below normal.

Minimum Temperature (Tmin)

- **Week 1 (21.02.2020 to 27.02.2020) and Week 2 (28.02.2020 to 05.03.2020):** Tmin anomaly is mostly negative over southeastern coast and south peninsula during the period and above normal over northern and northwestern parts of India during the period.

Strategic Agricultural Planning based on rainfall during next two weeks till 05th March 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 634.0 mm (25% excess) during the period of 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) is below normal for week-1 and week-2.

- Because of dry weather, boron deficiency is observed in banana crop. It is advised to spray one gram borax per one litre of water.
- There is a chance of white fly attack in vegetables. Application of 2% Neem oil garlic emulsion or spray of 20g Lecanicilliumlecanii per one litre of water in ten days interval is advised.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 462.0 mm (-2% deficit) during the period of 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) is above normal for week-1 and below normal for week-2.

- Prevailing weather conditions are favorable for spotted boll worm in cotton. Spray Chlorantraniliprole 18.5% SC 150 ml/ha or Flubendiamide 39.3% SC 100-125 ml/ha for the control of spotted boll worm.
- 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.
- 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 (117% large excess), over Marathwada is 260.3 mm (146% large excess), Vidharbha is 91.6 mm (-6% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) over Marathwada, Konkan, Madhya Maharashtra and Vidharbha are above normal for week-1 and below normal over Marathwada, Konkan, Vidharbha and Madhya Maharashtra for week-2.

Madhya Maharashtra

- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.
- Farmers are advised to sow the fodder crops in the month of February and March.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 250.5 mm (-1% deficit) during 01 Oct. 2019 - 20

Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Powdery mildew disease is expected in polyhouse crops like tomato. For control, spray of Haxaconazol 1ml per litre of water at 10 days interval is advised.
- Nursery preparation is advised for chili, tomato and brinjal crops in poly houses.

Hisar

Amount of rainfall received over Hisar is 51.4 mm (10% excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Hisar is below normal for week-1 and above normal for week-2.

- It is advised to maintain good amount of water in pond to save fishes from low temperature.
- Farmers are advised to keep vigilance on hairy caterpillar and mustard sawfly in mustard crop. Apply need based irrigation and intercultural operations to conserve the soil moisture.
- 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 - 20 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 (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) over South Interior Karnataka and North Interior Karnataka are below normal for week-1 and week-2.

South Interior Karnataka

- There is a chance of leaf hopper and powdery mildew disease incidence before flowering and after fruit formation in mango. To control, spraying of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water is advised.
- 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 225.6 mm (-3% deficit) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Assam is above normal for week-1 and week-2.

- It is advised to prepare land for growing greengram & blackgram crop. Recommended varieties viz.T9, Pant U 19, UG 157 for black gram and Kopergaon, Pratap, AAU 39 for green gram

cultivation.

- It is advised to vaccinate the 4-7 days old and 35 days old birds with F1/ Lasota vaccine @ 1 drop through eye and nostril.

Jammu

Amount of rainfall received over Jammu is 403.9 mm (27% excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- It is advised to rogue out the disease affected plants such as virus affected plants of tomato and black rot of cauliflower and cabbage.
- The weather condition is congenial for aphids in late sown mustard crop. If aphid is noticed, spray Imidacloprid @ 0.3 ml / litre of water or Dimethoate 30 EC @ 1ml/litre of water.

Odisha

Amount of rainfall received over Odisha is 230.2 mm (47% excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Odisha is normal for week-1 and above normal for week-2.

- The cloudy weather favors the infestation of aphids in pulses. It is advised to spray 2 ml Dimethoate or Metacystox per litre water.
- Weather is optimum for sowing of summer maize with varieties viz., Navjot, Dhabal, Dhabal and Navjot.

Uttar Pradesh

Rainfall received during 01 Oct. 2019 - 20 Feb. 2020 over East Uttar Pradesh is 72.7 mm (2% excess) and West Uttar Pradesh is 86.2 mm (47% excess). The extended range weather forecast for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) over East Uttar Pradesh is normal rainfall and over West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

- Intercultural operation is advised to check the evapo-transpiration losses and proper utilization of nutrient to the crop.
- Under prevailing weather conditions, there is a possibility for attack of fruit borer in brinjal. Hence, farmers are advised to take suitable plant protection measures.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 157.9 mm (65% large excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Chhattisgarh is normal for week-1 and above normal for week-2.

- In summer paddy crop, farmers are advised to fix pheromone trap and light trap nearby the field for the control of stem borer.

- For the control of adult caterpillar in gram, framers are advised to spray Profenofas + Cypermethrin mixed insecticide @ 400 ml/acre dissolved in 200 litre water.
- Poultry farmers are advised to vaccinate the chicks at the age of 5-7 days against Ranikhet disease.

Punjab

Amount of rainfall received over Punjab is 108.3 mm (59% excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Punjab is belw normal for week-1 and normal for week-2.

- It is advised to check the foot rot of citrus, farmers are advised to drench the affected trees with 25 g Curzate M-8 in 10 litre of water per tree. Application of sodium hypochlorite (5%) @ 50ml per tree in 10 litre of water on the main trunk is also advised.
- 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 173.0 mm (50% excess) during 01 Oct. 2019 - 20 Feb. 2020. The extended range weather forecast provided for next two weeks (21 - 27 Feb. and 28 Feb. - 05 Mar. 2020) on rainfall over Jharkhand is above normal for week-1 and week-2.

- Farmers are advised to go for sowing of moong with recommended variety MML-688.
- Early to medium duration varieties of potato matures within 80-120 days. Farmers are advised to stop irrigation and remove the upper leaves/parts (Dehaulming) of the crop, before 7 – 10 days of digging.
- 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.

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