



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

Validity: (7th February to 20th February 2020)

Date of issue: 7th February 2020

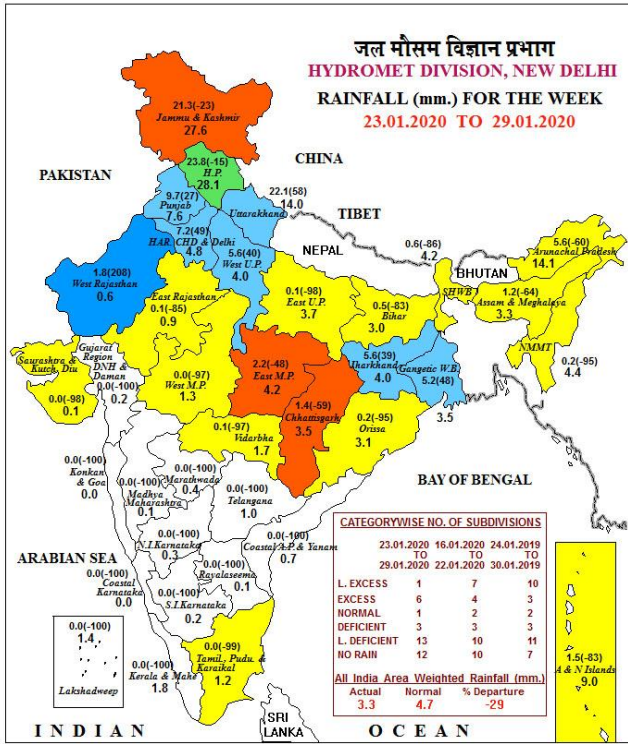
Issued by
Indian Council of Agricultural Research (ICAR)
All India Coordinated Research Project on Agro meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.
&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

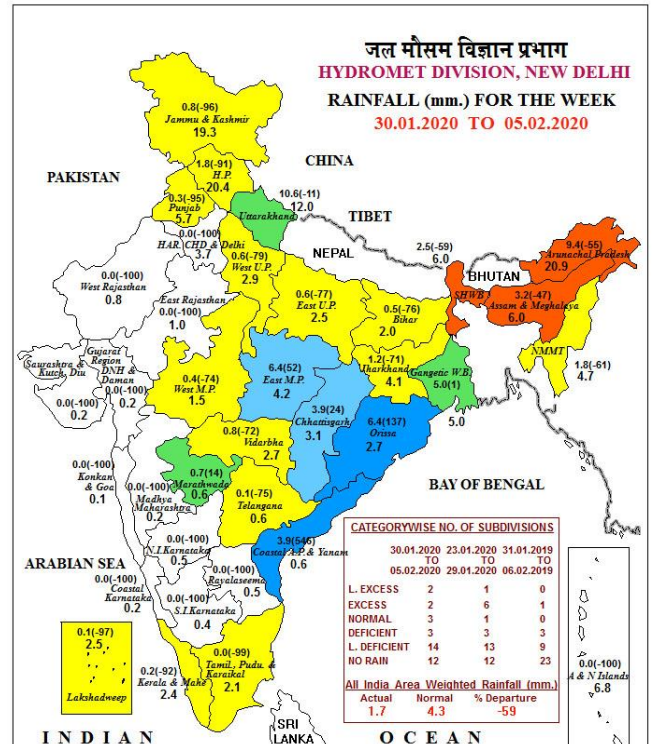
Realized Rainfall

(23rd January to 5th February, 2020)

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- Normal or above normal rainfall occurred in both the weeks in Uttarakhand and Gangetic West Bengal.
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chattisgarh, Jharkhand, Odisha and Coastal Andhra Pradesh.
- Below normal rainfall/no rain occurred over rest of the country.

Extended Range Forecast System

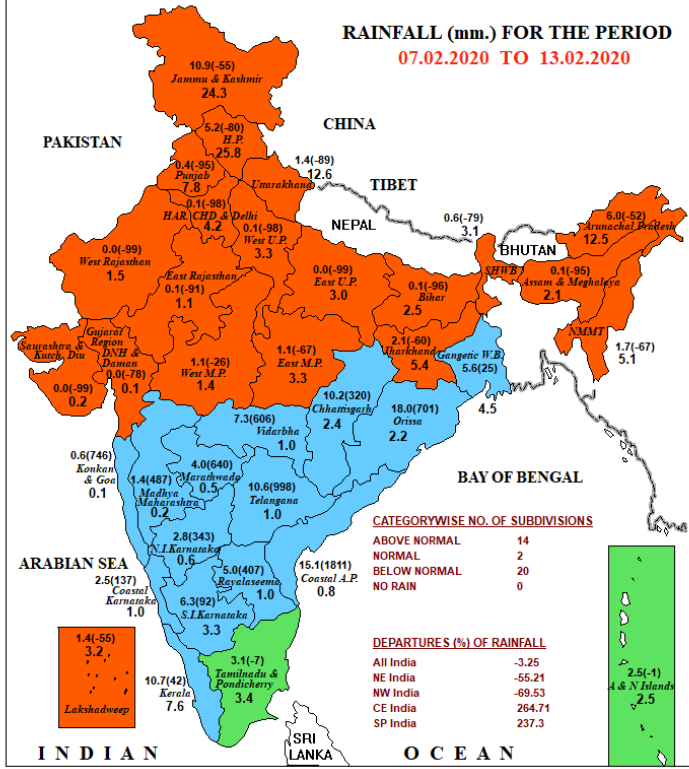
Rainfall forecast maps for the next 2 weeks (IC – 05 February)

(7th to 20th Feb. 2020)

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Rainfall Forecast Map - Normal RF Based Categories

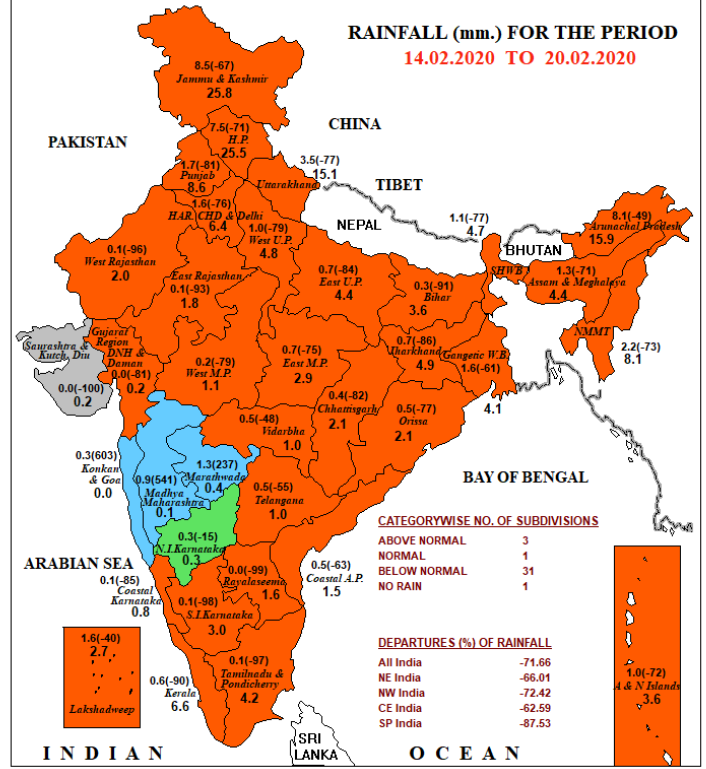


NOTES:
 [a] Rainfall figures are based on MME Forecast data.
 [b] Small figures indicate actual rainfall [mm.], while bold figures indicate Normal rainfall [mm.].
 Percentage Departures of Rainfall are shown in Brackets.

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Rainfall Forecast Map - Normal RF Based Categories



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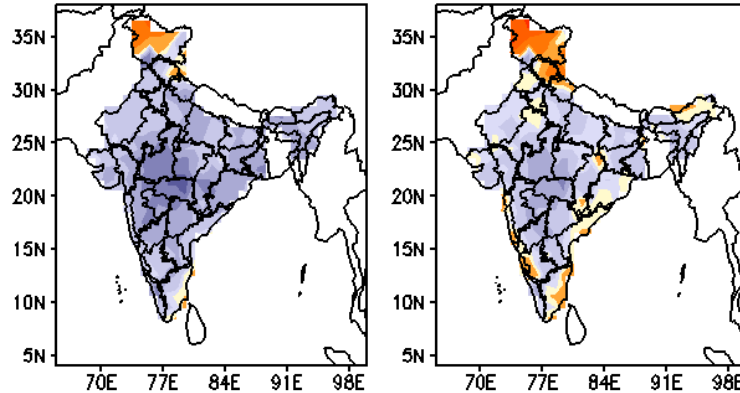
- Week 1 (07.02.2020 to 13.02.2020) and Week 2 (14.02.2020 to 20.02.2020): Week 1, 2 & 3, and 4 : Some parts of eastern coastal region (Odisha, Chhattisgarh, Coastal Andhra Pradesh etc) expected to get rainfall in week 1.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 05 February)
(7th to 20th Feb. 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 07Feb–13Feb)

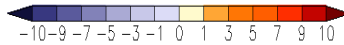
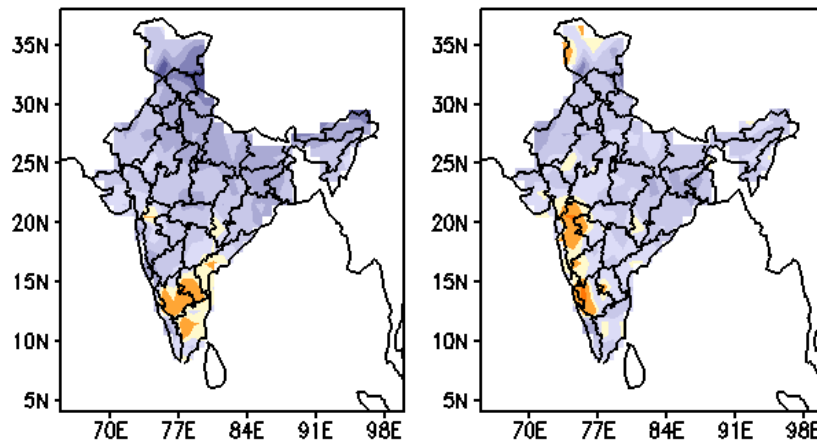
(Week2: 14Feb–20Feb)



MME forecast Tmin anomaly (Deg C)

(Week1: 07Feb–13Feb)

(Week2: 14Feb–20Feb)



Maximum Temperature (Tmax)

- **Week 1 (07.02.2020 to 13.02.2020) and Week 2 (14.02.2020 to 20.02.2020):** Tmax anomaly is mostly negative over most central and northwest parts of India except extreme north India in week 1. From week 2 onward the anomaly is expected to become normal or slight positive over some parts of central and northwest India in week 2.

Minimum Temperature (Tmin)

- **Week 1 (07.02.2020 to 13.02.2020) and Week 2 (14.02.2020 to 20.02.2020):** Tmin anomaly is mostly negative over most parts of India except some parts of south peninsula in week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 20th February 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 632.4 mm (26% excess) during the period of 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) is above normal for week-1 and below normal for week-2.

- There is a chance of blast disease in paddy. It is advised to spray 20 g Pseudomonas per one litre of water.
- Due to winter season, there is a chance of powdery mildew in vegetables. Spraying of 20 g Trichoderma per one litre of water is advised.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 461.9 mm (-1% deficit) during the period of 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) is below normal for week-1 and 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.
- Prevailing weather conditions are favorable for thrips & aphids in chilli. Spray Emamectin benzoate 5% SG 4 g/10 litre or Dimethoate 30 % EC 1.0 ml/litre for the control of thrips & aphids.
- To arrest excessive vegetative growth in gram, nipping followed by spray of NAA @30 ppm is advised.

Maharashtra

Rainfall received over Madhya Maharashtra is 228.6 mm (118% large excess), over Marathwada is 260.3 mm (149% large excess), Vidharbha is 87.4 mm (-6% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) over Marathwada, Konkan, Vidharbha and Madhya Maharashtra are above normal for week-1 and above normal over Marathwada, Konkan and Madhya Maharashtra and below normal over Vidharbha for week-2.

Vidharbha

- For control of pod borer in chickpea, it is advised to spray Azadirachtin 300 ppm @ 50 ml per 10 litre of water. It is also advised for sprinkler irrigation in chickpea to avoid soil moisture stress condition during pod formation stage.
- In livestock farm, preventive vaccination for foot and mouth disease (FMD) and deworming for flat worms is advisable.

Madhya Maharashtra

- Spray of 1% KNO₃ is advised during flowering stage of chickpea crop.
- Planting of Suru sugarcane is advised from 15 December to 15 February. Apply 25 kg N, 60 kg P and 60 kg K at the time of planting.

Konkan

- There is a possibility of incidence of shoot and fruit borer in brinjal, if incidence is noticed, collect and destroy all infected shoots and fruits and spray of Fenvalerate @10 ml or Deltamethrin 208% EC @ 10 ml per 10 litre of water is advised.
- It is advised to protect the farm animals from low temperature by providing curtains and electric bulbs as per the need.

Rajasthan

Rainfall received during 01 Oct. 2019 - 06 Feb. 2020 over East Rajasthan is 40.4 mm (32% excess). The extended range weather forecast for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) over East Rajasthan is below normal for week-1 and week-2.

- The present weather condition is favorable for incidence of powdery mildew in mustard. Spray of Carbendazim 12% + Mancozeb 62% @ 2g /litre of water is advised.
- The present weather is favorable for powdery mildew and leaf blight in opium poppy. Foliar spray of Propiconazole 0.2 ml/litre of water or Ridomil MZ 72% (Mentalaxyl 8% + Mancozeb 64 %) with 0.2 ml/litre at 15 days interval
- It is advised to start nursery preparation for chili, tomato and brinjal in poly house. Prepare seedling of early cucurbitaceous crops in small polythene bags in poly houses.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 246.6 mm (25% excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- It is advised to cover horticulture saplings with grass to avoid frost injury.
- Due to decrease in temperature and cold wave, it is advised to protect the newly born calves and animals from cold and white scour, naval ill and pneumonia.
- It is advised to apply mulch and well rotten FYM in vegetable crops.

Hisar

Amount of rainfall received over Hisar is 51.4 mm (40% excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Hisar is below normal for week-1 and week-2.

- 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.
- Apply requirement based irrigation in evening hours to protect the crops from frost and low temperature and apply recommended doses of fertilizers in existing vegetable crops and monitor for insect-pests and diseases. Go for effective weed management measures.
- It is advised to maintain good amount of water in pond to save fishes from low temperature.

Gujarat

Amount of rainfall received over Gujarat is 83.8 mm (171% large excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Gujarat is below normal for week-1 and week-2.

- “T” shaped bird perches in and around chick pea crop field is advised to install for natural controlling of prodenia and heliothes population. If infestation cross ETL, spray Emamectin Benzoate 5 % SG 7 g in 10 litre of water.
- For thrips control in onion, spray neem seed extract 5% or spray of Profenofos 20 ml and Lambda-cyhalothrin 14 ml per 10 litre of water at 10 days interval is advised.

Karnataka

Rainfall received during 01 Oct. 2019 - 06 Feb. 2020 over South Interior Karnataka is 307.8 mm (49% excess) and North Interior Karnataka is 245.5 mm (73% large excess). The extended range weather forecast for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) over South Interior Karnataka and North Interior Karnataka are above normal for week-1 and below normal over South Interior Karnataka and normal over North Interior Karnataka for week-2.

South Interior Karnataka

- 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.
- There is a chance of leaf hopper and powdery mildew disease incidence before flowering and after fruit formation in mango. To control, spray of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water is advised.
- It is advised to prevent chicks from getting exposed to wind chill.

Assam

Amount of rainfall received over Assam is 229.9 mm (2% excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Assam is below normal for week-1 and week-2.

- It is advised to prepare land for growing green gram & black gram 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.

Bihar

Amount of rainfall received over Bihar is 53.0 mm (-37% deficit) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Bihar is below normal for week-1 and week-2.

- Farmers are advised to monitor the potato crop as prevailing weather condition is highly favorable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 g/litre of water is advised if infestation occurs.
- Intercultural operation is advised in early sown onion/garlic crop. Provide light and frequent irrigation at an interval of 10-15 days as per requirement.

West Bengal

Amount of rainfall received over West Bengal is 276.8 mm (59% excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over West Bengal is above normal for week-1 and below normal for week-2.

- Due to light to moderate rainfall and fluctuation in air temperature, there is a chance of aphid infestation in mustard crop. Application of 1.5 ml Metasystox/Rogor per litre of water is advised and maintain proper drainage channel.
- Because of attack of hopper in mango, it is advised to apply 2g Carbaril or 1.5 g Monocrotophos per litre of water.

Jammu

Amount of rainfall received over Jammu is 396.8 mm (61% large excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Due the presence of sufficient moisture in soil, farmers are advised to apply the remaining dose of urea before the spike emergence.
- Pruning of old shoots of Chrysanthemum and grooming of mother plants is recommended.

Odisha

Amount of rainfall received over Odisha is 210.5 mm (44% excess) during 01 Oct. 2019 - 06 Feb. 2020. The extended range weather forecast provided for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) on rainfall over Odisha is above normal for week-1 and below normal for week-2.

- Cold and cloudy weather favours the infestation of powdery mildew in pulses. Spray of 1 kg Sulfex WP in 200 litre per acre is advised.
- Weather is optimum for sowing of summer maize. Recommended composite varieties viz. Navjot,

Dhabal and Vijay and HYVs viz. Dhabal and Navjot Deccan, Ganga, Deccan 105, Kargil 900-M, Kargil 633, PRO 345 and Disco 2418.

Uttar Pradesh

Rainfall received during 01 Oct. 2019 - 06 Feb. 2020 over East Uttar Pradesh is 72.7 mm (17% excess) and West Uttar Pradesh is 86.2 mm (82% large excess). The extended range weather forecast for next two weeks (07 - 13 Feb. and 14 - 20 Feb. 2020) over East Uttar Pradesh and West Uttar Pradesh are below normal for week-1 and week-2.

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

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