



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

Validity: (31st January to 13th February 2020)

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Indian Council of Agricultural Research (ICAR)
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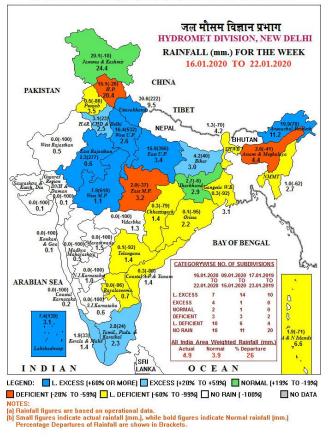
Earth System Science Organization India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

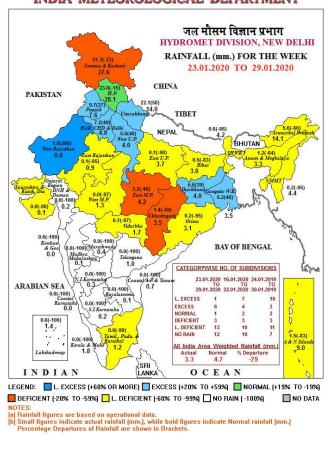
Realized Rainfall

(16th to 29th January, 2020)

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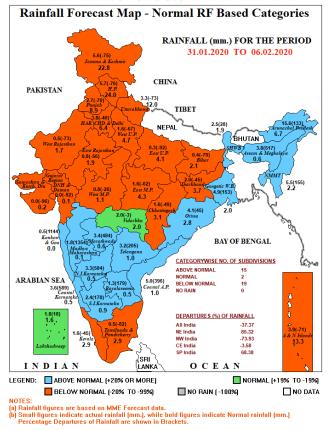
- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Haryana, Chandigarh & Delhi,
 West Uttar Pradesh and Jharkhand.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir, Himachal Pradesh, Punjab, West Rajasthan, East Rajasthan, East Uttar Pradesh West Madhya Pradesh, Bihar, Gangetic West Bengal, Arunachal Pradesh, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Below normal rainfall/no rain occurred over rest of the country.

Extended Range Forecast System

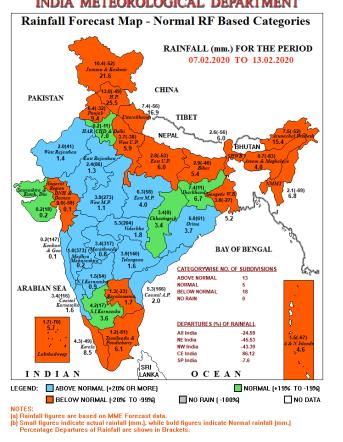
Rainfall forecast maps for the next 2 weeks (IC – 29 January)

(31st Jan. to 13th Feb. 2020)

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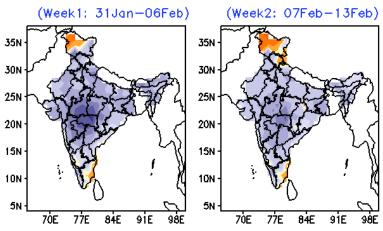
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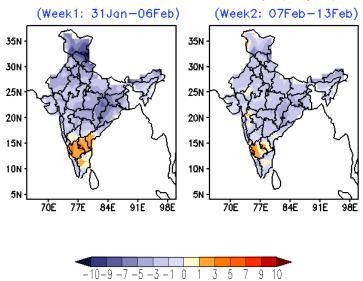
• Week 1 (31.01.2020 to 06.02.2020) and Week 2 (07.02.2020 to 13.02.2020): Extreme north Indian states likely to get light to moderate rainfall under the influence of Western Disturbance during week 2. Some parts over northeastern states are expected to get rainfall during week 1.

Maximum and Minimum temperature anomaly (OC) forecast for next 2 weeks (IC – 29 January) (31st Jan. to 13th Feb. 2020)





MME forecast Tmin anomaly (Deg C)



Maximum Temperature (Tmax)

• Week 1 (31.01.2020 to 06.02.2020) and Week 2 (07.02.2020 to 13.02.2020): Tmax anomaly is mostly negative over most central and northwest parts of India except extreme north India and some parts of eastern coastal regions.

Minimum Temperature (Tmin)

• Week 1 (31.01.2020 to 06.02.2020) and Week 2 (07.02.2020 to 13.02.2020): Tmin anomaly is mostly negative over most parts of India except extreme north India and some parts of eastern coastal regions.

Strategic Agricultural Planning based on rainfall during next two weeks till 13th February 2020 Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 630.9 mm (26% excess) during the period of 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) is below normal for week-1 and week-2.

- There is a chance of appearance of rice bug in paddy. To control, spray 2 ml Malathion per one litre of water. It is advised that pesticides application should be done either before 9 am or after 3 pm.
- Due to dry weather, there is a chance of Boron deficiency in banana. It is advised to spray one gram Borax per one litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 461.9 mm (normal rainfall) during the period of 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) is below normal for week-1 and week-2.

- 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 (119% large excess), over Marathwada is 259.7 mm (149% large excess), Vidharbha is 86.5 mm (-5% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) over Marathwada, Konkan and Madhya Maharashtra are above normal and Vidharbha is normal for week-1 and above normal over Marathwada, Vidharbha, Konkan and Madhya Maharashtra 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

- It is advised to harvest the chickpea crop at maturity stage (grain moisture should be 11-12%).
- 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.

Marathwada

- Irrigation should be applied as per availability of water through sprinkler irrigation system. For managing aphids in safflower crop take a spray of Dimethoate 30 % EC @ 13 ml or Acephate 75 % SP @ 16 g per 10 litre of water.
- For management of sucking pest in citrus it is advised to spray Imidacloprid 17.8 % @ 3 ml per 10 litre of water.

Rajasthan

Rainfall received during 01 Oct. 2019 - 30 Jan. 2020 over East Rajasthan is 40.4 mm (36% excess). The extended range weather forecast for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) over East Rajasthan is below normal for week-1 and above normal for 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.
- 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.
- It is advised to apply irrigation at pod formation stage in gram. To control pod borer, dusting of Malathion 5% or Methyl parathion 2% @ 25 kg/ha after pod formation is advised.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 246.2 mm (38% excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 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 (53% excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) on rainfall over Hisar is below normal for week-1 and normal for 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 (173% large excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) on rainfall over Gujarat is below normal for week-1 and week-2.

- There are chances of aphid infestation in cumin crop. For control of aphid, spray Dimethoate @10ml or Phosphamidon @ 3ml adding in 10 litre of water is advised.
- It is advised to protect the paddy nursery from cold wind by providing fencing on outer side of field or cover the nursery area by 4-5 feet fencing with net.
- It is advised to protect animals from cold wind by keeping them in covered shed.

Karnataka

Rainfall received during 01 Oct. 2019 - 30 Jan. 2020 over South Interior Karnataka is 307.8 mm (49% excess) and North Interior Karnataka is 245.5 mm (74% large excess). The extended range weather forecast for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) over South Interior Karnataka and North Interior Karnataka are above normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka for week-2.

South Interior Karnataka

- It is the right time to harvest the matured and dried redgram pods or whole plants.
- Manage the humidity in the silk worm rearing house by providing cross-ventilation. Apply dry slaked lime powder when silkworms settle for moult.
- 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.

Jharkhand

Amount of rainfall received over Jharkhand is 170.3 mm (67% large excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) on rainfall over Jharkhand is below normal for week-1 and normal for week-2.

- Early to medium duration variety 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 broadcast urea in 10 12 days old seedlings @ 2 kg per 10 dismil of nursery bed, and also maintain the soil moisture of nursery bed.

Assam

Amount of rainfall received over Assam is 219.4 mm (4% excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb.

2020) on rainfall over Assam is above normal for week-1 and below normal for week-2.

- Farmers are advised to check the aphid attack in rapeseed & mustard crop. To control, spray Dimethoate 30 EC or Chloropyriphos 20 EC 0.5litre/ha with a spray volume of 500-700 litre of water/ha is advised.
- It is advised to provide proper bedding materials to new-born piglets and lukewarm feed and water and deep straw bedding to the calf, to create a nest to help in reducing the heat loss and exposure to drafts.

Punjab

Amount of rainfall received over Punjab is 108.3 mm (135% large excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) on rainfall over Punjab is below normal for week-1 and week-2.

- Prevailing weather is favourable for spread and development of white rust in oilseeds crop. Protect the crop by spraying Ridomil Gold @ 250 g in 100 litres of water per acre.
- Protect the young evergreen fruit plants from cold weather. It is advised to prepare thatches and apply light irrigations to protect young fruit plants.
- If yellowing of leaves appear due to manganese deficiency in wheat crop, spray the crop with manganese sulphate.

Chhattisgarh

Amount of rainfall received over Chattisgarh is 135.8 mm (56% excess) during 01 Oct. 2019 - 30 Jan. 2020. The extended range weather forecast provided for next two weeks (31 Jan. - 06 Feb. and 07 - 13 Feb. 2020) on rainfall over Chhattisgarh is below normal for week-1 and normal for week-2.

- Summer paddy is in transplanting stage. Farmers are advised to prepare their main field and use eco-friendly light traps and pheromone traps for protection against yellow stem borer (YSB).
- Due to increase in bright sun shine hours and temperature, farmers are advised for water management in their crop like field pea, gram, lentil, linseed, safflower and sunflower etc.
- Farmers are advised to use pheromone traps for the control of tobacco caterpillar and fruit borer in vegetables.

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