



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

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&
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Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall

(28th December 2017 to 10th January 2018)



- Normal or above normal rainfall occurred during last two weeks in Andaman & Nicobar Islands.
- Above normal rainfall occurred in either of the last two weeks in Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Below normal rainfall/no rain occurred in either of the last two weeks /during last two weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –10 January) (12th to 25th January 2018)



Extended Range Rainfall Forecast

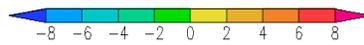
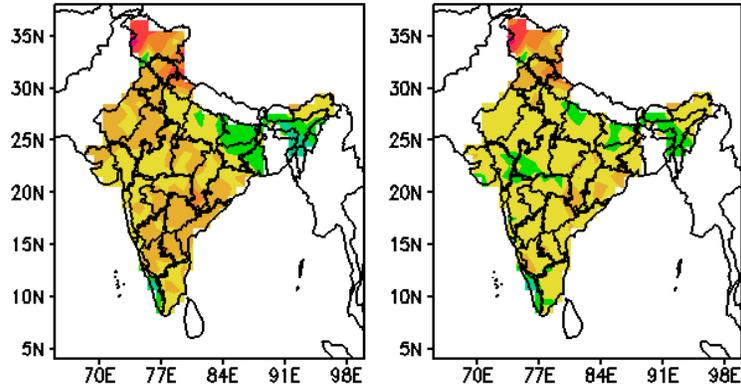
- No significant rainfall is forecasted during the period. However, Andaman & Nicobar islands, Kerala and Tamilnadu may receive rainfall during next two weeks.

**Maximum and Minimum temperatures anomaly ($^{\circ}\text{C}$) forecast for next 2 weeks
(IC – 10 January) (12th to 25th January 2018)**

MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 12Jan–18Jan)

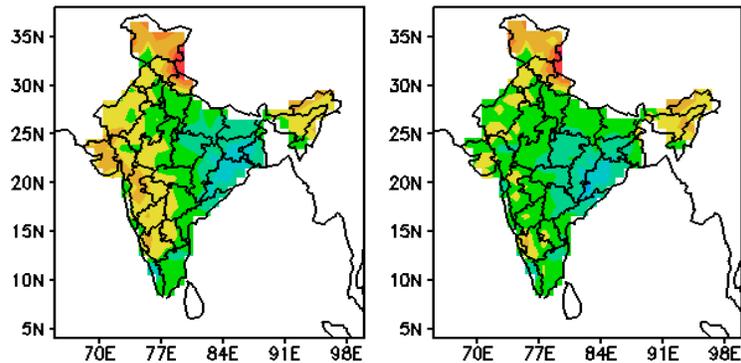
(Week2: 19Jan–25Jan)



MME Bias Corrected Tmin Anomaly (Deg)

(Week1: 12Jan–18Jan)

(Week2: 19Jan–25Jan)



Tmax (Maximum Temperature)

- **Week 1 (12 - 18 Jan. 2018):** Maximum temperature is likely to be above normal over most parts of India (except some parts of northeast India).
- **Week 2 (19 - 25 Jan. 2018):** Maximum temperature is likely to be above normal over most parts of India.

Tmin (Minimum Temperature)

- **Week 1 (12 - 18 Jan. 2018):** As indicated earlier except some parts of western India and Northwest India minimum temperature will remain below normal with cold-wave condition more likely over the eastern parts of the country.
- **Week 2 (19 - 25 Jan. 2018):** Mostly Below normal minimum temperature over the country.

Strategic Agricultural Planning based on rainfall during next two weeks till

25th January 2018

Agromet Advisories

Tamil Nadu

Rainfall Situation

Rainfall received during the period of 01 to 10 January 2018 over Tamil Nadu is 3.2 mm, which is 61% deficit compared to the normal rainfall for the same period. The extended range weather forecast provided for next two weeks [12 to 18 January (week-1) and 19 to 25 January (week-2)] for Tamil Nadu is normal for week-1 and above normal for week-2.

- Moderate cloud cover, light to moderate rainfall and moderate to high humidity are expected in the coming days. These conditions are congenial for incidence of American boll worm and stem borer. Farmers are recommended to spray Quinalphos 25% EC @ 2.0 litre/ha for control of boll worm and Carbofuran 30G 20 kg/ha for controlling stem borer during week-1, after the spell of rainfall.
- Weather condition is congenial for sucking pests like thrips and aphids problem in Chilli. This causes curling and crackling of leaves. Farmers are advised to spray Imidachlopid 17.8% SL @ 3ml/10 liters of water or Dimethoate 30% EC @ 1.0 ml/litre during week-1, after the rainfall spell.
- Prevailing weather condition is also congenial for leaf folder incidence in rice. This causes scorched appearance in whole field. Farmers are advised to spray Phosphamidon 40 SL 1250ml/ ha during week-1, after the rainfall spell.

Karnataka

Rainfall Situation

No rainfall was received during the period of 01 to 10 January 2018 over different meteorological sub-divisions of Karnataka viz., North Interior Karnataka, South Interior Karnataka and Coastal Karnataka. The extended range weather forecast provided for next two weeks is - North Interior Karnataka: below normal for both the weeks; South Interior Karnataka: below normal for week-1 and above normal for week-2

South Interior Karnataka

- Provide protective irrigation on standing *rabi* crops during week-1, through above normal rainfall is forecasted during week-2 (the quantity is very less).
- Mango: Dry spell situation prevailing over last one month is favorable for higher rate of flowering. This weather condition is also favorable for incidence of powdery mildew disease. Farmers are advised to spray Lamda Cyhalothrin 5EC@ 0.5 ml/ litre of water or sulphur dust (SULTAF) 80 W @3g/litre of water against the Powdery mildew diseases.

North Interior Karnataka:

- As below normal rainfall is forecasted for both the weeks, farmers are recommended to take agronomical measures to conserve soil moisture like hand weeding and repeated intercultivation and earthing up of rows.
- Farmers are recommended to provide irrigation to *rabi* crops, wherever possible.

- Farmers are advised to give de-worming medicine to livestock and vaccinate (ET vaccine) sheep and goats against Enterotoxaemia; for milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture and feed all the animals with both green fodder and dry fodder

Maharashtra

Rainfall Situation

No rainfall was received during the period of 01 to 10 January 2018 over all the meteorological sub divisions of the state. The extended range weather forecast provided for next two weeks over all the meteorological sub divisions of the state is below normal for both the weeks over Vidarbha, Madhya Maharashtra and Marathwada. Normal rainfall is forecasted over Konkan for both weeks.

Vidarbha

- With prevalence of dry weather, need based timely irrigation is advised to avoid moisture stress in *rabi* crops/vegetables/orchards.
- Ensure availability of seed and fertilizer/bio fertilizer inputs for cultivation of summer groundnut on Broad Bed and Furrow (BBF). Recommended sowing period is from second fortnight of January onwards, when optimum minimum temperature range (>15 °C) for germination prevails. Summer groundnut varieties recommended for the region are TAG-24 and TG-26.
- In late sown irrigated wheat, top dressing of nitrogen fertilizer @ 40 kg per hectare is recommended to be applied at 20-25 days after sowing (CRI stage), after the irrigation.
- To control safflower aphids (ETL: 15-20 aphids/plant), spray of Dimethoate 30% EC @ 13 ml or Acephate 75% WP @ 4 g in 10 litres of water is recommended.
- To control chickpea pod borer (ETL: One/meter row length or 5% pod damage), spray Quinalphos 25% EC @ 20 ml or Emamectin benzoate 5% G @ 3.0 g.

Konkan

- If incidence of mango hopper is noticed, farmers are advised to spray Imidachloprid 17.8% SL @ of 3 ml per 10 liter of water; to manage powdery mildew, spray Hexaconazole 5% EC @ 5 ml or Sulphur 80% WP @ 20 gm per 10 lit of water, after rain spell.
- If incidence of Tea mosquito bug in cashew is noticed, spray Lambda Cyhalothrin 5% EC (6 ml. in 10 lit. of water), after the rainfall.

Madhya Pradesh

Rainfall Situation

No rainfall was received during the period of 01 to 10 January 2018 over the two meteorological sub divisions of the state. The extended range weather forecast provided for next two weeks over West Madhya Pradesh and East Madhya Pradesh is below normal for both weeks.

East Madhya Pradesh

- Farmers are advised for light irrigation in mustard to protect them from low temperature.
- Pigeon pea is at pod development stage. Farmers are advised to monitor incidence of leaf-eating

caterpillar and pod borer. Spray of Triazophos insecticide @ 750 ml /500 litre water/ha is recommended.

- As night temperature was low in the previous week, vegetables like tomato, brinjal and chilli needs light irrigation. For potato, create bunds and cover tubers with the soil
- As sunshine hours decreased, provide artificial light under poultry shed. Place farm litter/crop residue (bhoosa) on the floor under dairy shed to improve temperature during night hours.

Chhattisgarh

Rainfall situation

Rainfall received over Chhattisgarh during the period of 01 to 10 January 2018 is 0.0 mm, which is 100% deficit than the normal. The extended range weather forecast provided over Chhattisgarh for next two week is below normal (for both weeks).

- Wheat sown before 20 days is at Crown Root Initiation stage. Hence, farmers are advised for top dressing of nitrogen followed by irrigation.
- Weather conditions are congenial for the infestation of pod borer in chickpea. Use Pheromone trap @ 2 numbers/acre. On the basis of adult catch of insects, apply NPV @ 250 LE per hectare.

Jharkhand

Rainfall situation

Rainfall received over Jharkhand during the period of 01 to 10 January 2018, is 0.0 mm. The extended range weather forecast provided for next two weeks over Jharkhand is below normal for both the weeks.

- Farmers are recommended to take up Intercultural operations in pulse and oilseed crops. Irrigate gram and lentil after 50-55 days of sowing (prior to flowering stage). Broadcast urea @ 22 kg per acre after irrigation in 40 - 45 (2nd application in normal sown) and 20 - 25 (1st application in late sown) days old crops, after weeding.
- For cultivation of early summer vegetables, farmers are advised to sow seeds of cucurbitaceous crops in polythene (filled with soil and FYM) and keep it at warmer place.

Rajasthan

Rainfall Situation

No rainfall was received during the period of 01 to 10 January 2018 over the two meteorological sub divisions of the state. The extended range weather forecast provided over meteorological subdivisions of Rajasthan for next two weeks is below normal.

East Rajasthan

- Farmers are advised to spray of Mancozeb @2.5 kg/ha at 60 days crop and Karathane @ 750 ml/ha to 75 days crop to control incidence of white rust and powdery mildew in mustard, respectively.
- As severe cold wave conditions exist in many parts of the state, frost sensitive crops should be provided with irrigation or smoke in the fields.

Bihar

Rainfall Situation

No rainfall was received during the period of 01 to 10 January 2018 over Bihar. The extended range weather forecast provided for Bihar is below normal for both the weeks.

- Farmers are advised not to irrigate and do intercutting in mango and litchi orchards. If such operations are done, it will affect flowering process in the plants.
- Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days in view of cold wave condition.
- Regular monitoring is advised for incidence of powdery mildew disease in pea. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if symptoms of disease are found.

Assam

Rainfall Situation

Assam received 2.8 mm of rainfall during the period of 01 to 10 January 2018 (48% deficit). The extended range weather forecast provided for Assam is below normal for both the weeks.

- Due to low night temperature and thick fog, farmers may observe aphid infestation in rapeseed & mustard. Spray Dimethoate 30 EC or Chlorpyrifos 20 EC @ 0.5 lit/ha with a spray volume of 500-700 lit of water/ha.
- Prevailing weather is congenial for incidence of late blight tomato. Farmers are advised to spray Indofil M-45 @ 2.5g/lit of water.

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