



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

**Validity: 19 January to 1 February, 2018**

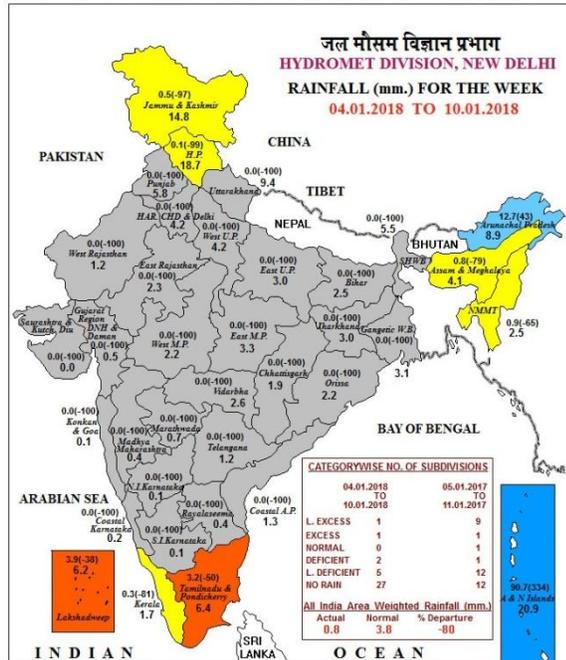
**Date of issue: 19 January 2018**

**Issued by**  
**Indian Council of Agricultural Research (ICAR)**  
**All India Coordinated Research Project on Agricultural 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 Temperature)

## Realized Rainfall (4<sup>th</sup> to 17<sup>th</sup> January 2018)

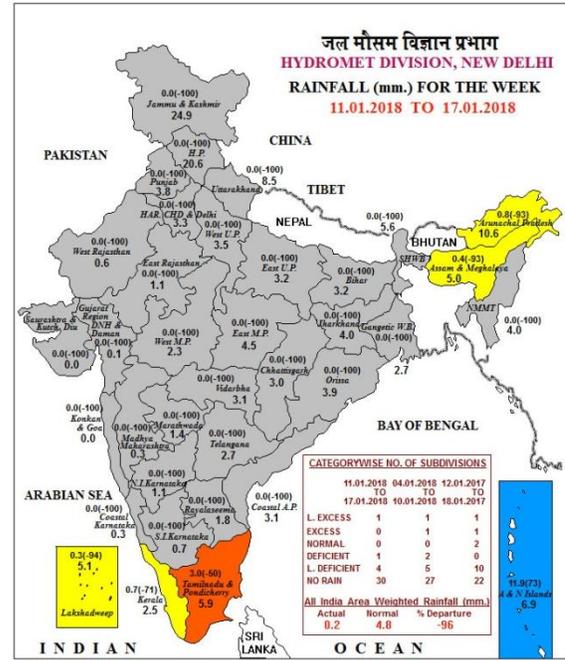
### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



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.

### 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

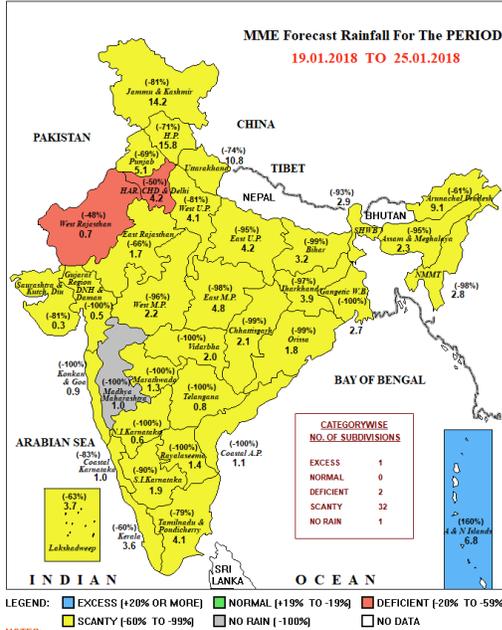
NOTES:  
 (a) Rainfall figures are based on operational data.  
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

- 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.
- Below normal rainfall/no rain occurred during last two weeks over rest of the country.

## Extended Range Forecast System

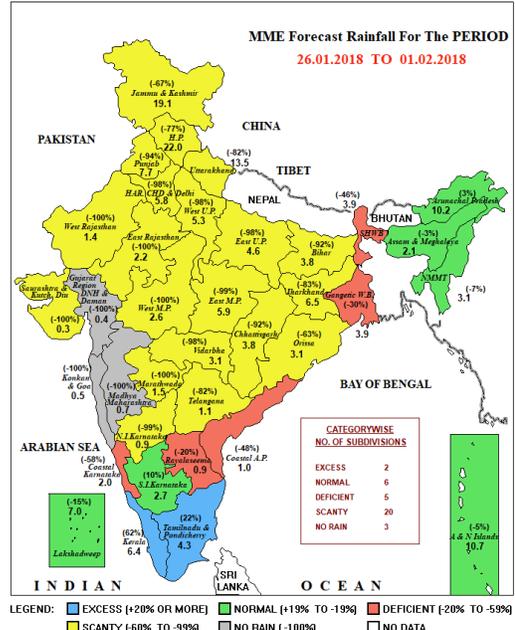
### Rainfall forecast maps for the next 2 weeks (IC -17 January) (19<sup>th</sup> January to 1<sup>st</sup> February 2018)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



**NOTES:**  
[a] Rainfall figures are based on MME Forecast.  
[b] Bold figures indicate Forecast Normal rainfall (mm.)  
[c] Percentage Departures of Rainfall are shown in Brackets.

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

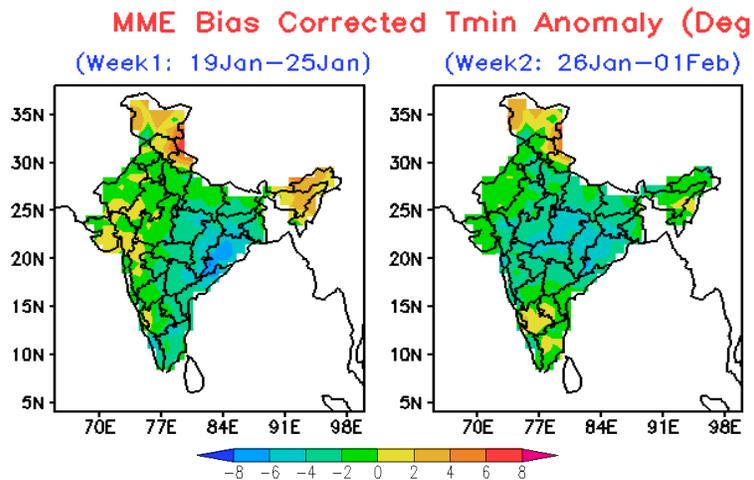
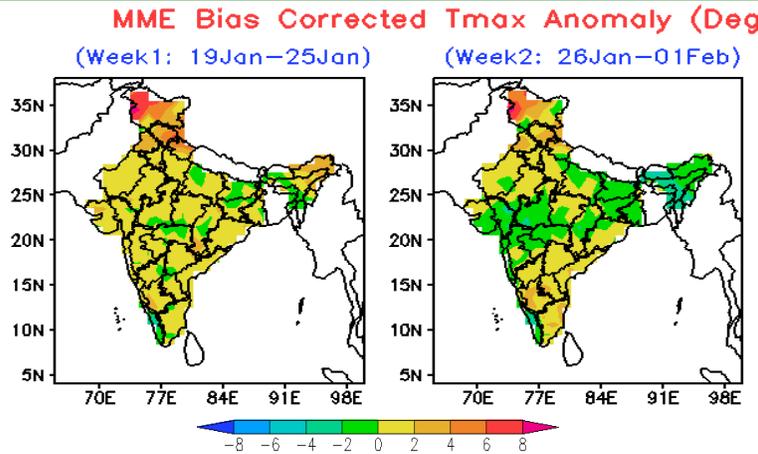


**NOTES:**  
[a] Rainfall figures are based on MME Forecast.  
[b] Bold figures indicate Forecast Normal rainfall (mm.)  
[c] Percentage Departures of Rainfall are shown in Brackets.

### Extended Range Rainfall Forecast

- No significant rainfall is forecasted during the period. However, Andaman & Nicobar islands, Kerala and Tamilnadu may receive rainfall during week-2 (26 January to 1 February).

**Maximum and Minimum temperatures anomaly ( $^{\circ}\text{C}$ ) forecast for next 2 weeks  
(IC - 17 January) (19<sup>th</sup> January to 1<sup>st</sup> February 2018)**



**Tmax (Maximum Temperature)**

- **Week 1 (19 - 25 Jan. 2018) and Week 2 (26 Jan. – 01 Feb. 2018):** Mostly above normal maximum temperature over the country except over parts of central India during week 2.

**Tmin (Minimum Temperature)**

- **Week 1 (19 - 25 Jan. 2018):** Except part of west, northern and northeast India minimum temperature will be below normal.
- **Week 2 (26 Jan. – 01 Feb. 2018):** Mostly Below normal minimum temperature over the country except parts of northern and Northwest India.

## Strategic Agricultural Planning based on rainfall during next two weeks till

1 February 2018

### Agromet Advisories

#### Tamil Nadu

##### Rainfall Situation

Rainfall received during the period of 01 to 17 January 2018 over Tamil Nadu is 6.2 mm, which is 56% deficit compared to the normal. The extended range weather forecast provided for next two weeks are below normal for week-1 (19 to 25 January) and above normal for week-2 (26 January to 01 February).

- Moderate cloud cover with moderate to high humidity is expected in the coming days, which is congenial for white fly and pink boll worm incidence in cotton. To control pink boll worm, apply Carbaryl 5% @ 20 kg/ha (or) spray Triazophos 40 EC @ 2.5 l/ha during week-1. To control white fly, spray Profenofos 50% EC 1000 ml/ha during week-1.
- Prevailing weather condition is congenial for incidence of brown plant hopper in rice. So, farmers are advised to avoid excessive use of nitrogen. Spray Phosphamidon 40% SL @ 1250 ml/ ha (or) Imidacloprid 17.8% SL @ 100-125 ml/ha during week-1.
- Forecasted weather condition is congenial for head borer incidence (*Helicoverpa armigera*) in sunflower. Spray 3% Neem oil (or) 5% neem seeds kernel extract before egg laying or spray Dichlorvos 76% EC @ 500 ml/ha during week-1.

#### Kerala

##### Rainfall Situation

Rainfall received during the period of 01 to 17 January 2018 over Kerala is 1.0 mm, which is 80% deficit. The extended range weather forecast provided for next two weeks are below normal for week-1 and above normal for week-2.

- Weather condition is congenial for the incidence of thrips and mites in vegetables. Apply 2% neem oil+garlic emulsion under the leaf surface at 10 days interval. If the attack is severe, apply spiromesifen @ 8 ml/10 litre of water.
- Prevailing weather condition is congenial for rice bug infestation. Apply neem based pesticides (3ml per one liter of water). Pesticide application should be done either before 9 am or after 3 pm, to avoid the adverse effect on pollination.

#### Karnataka

##### Rainfall Situation

No rainfall was received during the period of 01 to 17 January 2018 over different meteorological sub-divisions of Karnataka. The extended range weather forecast provided for next two weeks over North Interior Karnataka: below normal for both the weeks; South Interior Karnataka: normal for week-1 and below normal for week 2; Coastal Karnataka: below normal for both the weeks.

### **North Interior Karnataka:**

- As below normal rainfall is forecasted, farmers are recommended to take up agronomical measures to conserve soil moisture like hand weeding, repeated intercultivation and earthing up of rows.
- Farmers are also 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. Follow a schedule of 1 kg feed + 50 g mineral mixture per 2 litres of milk yield for milch animals and feed all the animals with both green fodder and dry fodder.

### **South Interior Karnataka:**

- Farmers are recommended for sowing of summer crops viz. groundnut, maize, sunflower etc. where assured irrigation is available.
- Chances of leaf hopper incidence in mango are more during before flowering and immediately after fruit formation. So, farmers are advised to spraying of Carbaryl, 50WP @ 4g/litre of water or Imidacloprid @ 0.3ml/ litre of water for management of leaf hopper.

### **Andhra Pradesh**

#### **Rainfall Situation**

No rainfall was received during the period of 01 to 17 January 2018 over meteorological subdivisions of Andhra Pradesh. The extended range weather forecast provided for all the meteorological subdivisions of the state are below normal for both the weeks.

- Incidence of leaf folder is observed in rice at southern zone and scarce rainfall zone. Spray chlorpyrifos 2.5 ml or cartap hydrochloride @ 2 g/l of water.
- In Krishna district, southern and scarce rainfall zone farmers are advised to monitor pink boll worm incidence in cotton. If Incidence is noticed, immediate spraying of Quinalphos @ 2ml/litre or Chlorpyrifos @ 2.5 ml/ litre or Thiodicarb @1g/litre is recommended. Destroy rosette flowers and remove the dropped squares, dried flowers and premature bolls.

### **Maharashtra**

#### **Rainfall Situation**

No rainfall received during the period of 01 to 17 January 2018 over different meteorological sub divisions of the state. The extended range weather forecast provided for next two over Marathwada and Vidarbha is below normal; No Rain over Madhya Maharashtra in both weeks; Konkan: below normal for week-1 and no rain for week-2.

### **Konkan**

- If incidence of mango hopper is noticed, spray Imidacloprid 17.8% SL. @ of 3 ml per 10 litre of water.
- To control powdery mildew, mix Hexaconazole 5% EC @ 5 ml or Sulphur 80% WP @ 20 gm per 10 lit of water.
- Weather condition is conducive for bacterial wilt in chilli, brinjal and tomato seedling, To control,

farmers are advised to spray copper oxychloride @ 20 to 25 g/10 litre of water on seedbed after sowing of seeds.

### **Vidarbha**

- Need based irrigation is advised to avoid moisture stress in *rabi* crops (including vegetables) and orchards.
- With assured irrigation facility, farmers are advised to ensure seed and fertilizer/biofertilizer inputs for cultivation of summer groundnut on broad bed and furrow (BBF), sowing period being normally from second fortnight of January, when optimum minimum temperature range (>15 °C) for germination prevails. Summer groundnut varieties recommended for the region include TAG-24 and TG-26.
- In late sown irrigated wheat, top dressing of nitrogenous fertilizer (@ 40 kg per hectare) 20-25 days after sowing (CRI stage) is recommended after irrigation. Timely sown wheat being at critical jointing stage (45-50 DAS), ensure optimum soil moisture by providing irrigation.
- In chickpea, for management of pod borer after attaining ETL (one/meter row length or 5% pod damage), undertake insecticidal application of Quinolphos 25% EC @ 20 ml or Emamectin benzoate 5% G @ 3.0 g or Lambda cyhalothrin 5.0%EC@ 10.0 ml or Chlorantraniliprole 18.5% SC @ 2.5 ml in 10 litres of water.

### **Marathwada**

- As below normal rainfall is forecasted for both the weeks, farmers are advised to irrigate safflower crop during flowering stage (55 to 60 DAS). Ensure proper drainage to avoid water stagnation in the field.
- Soil moisture stress is reported in late sown gram during flowering to pod initiation stage. Apply light irrigation. If infestation of gram pod borer is observed, spray Chlorpyrifos 20 EC @ 25 ml or Deltamethrin @ 5 ml per 10 liter of water.

### **Gujarat**

#### **Rainfall Situation**

No Rainfall was received during the period of 01 to 17 January 2018 over Gujarat. The extended range weather forecast provided over Gujarat: Gujarat region: below normal for week-1 and no rain for week-2; Saurashtra & Kutch region: below normal for both weeks.

- Prevailing weather condition is congenial for incidence of army worm in wheat. Spray Quinalphos 25% EC @ 20 ml in 10 litre of water.
- Weather conditions are conducive for blight disease in potato. Spray Mancozeb 0.2 @ 25 gm in 10 litre of water.
- As below normal rainfall is forecasted, farmers are advised to irrigate chickpea, which is at pod development stage.

## **Rajasthan**

### **Rainfall Situation**

No Rainfall was received during the period of 01 to 17 January 2018 over West and East Rajasthan. The extended range weather forecast provided over two meteorological subdivisions of Rajasthan for next two weeks is below normal.

### **East Rajasthan**

- As below normal rainfall is forecasted, apply irrigation in wheat where, the crop is at tillering stage. Top dress remaining dose of 1/4<sup>th</sup> urea (65 kg/ha) at tillering stage is recommended.
- Farmers are advised to spray Mancozeb @ 2.5 kg/ha at 60 days old mustard crop and Karathane @ 750 ml/ha at 75 days crop for the control of white rust and powdery mildew. For the control of mustard aphid, spray chlorpyrifos 20 EC @ 600 ml/ha.

## **Chhattisgarh**

### **Rainfall situation**

No rainfall was received during the period of 01 to 17 January 2018 over Chhattisgarh. The extended range weather forecast provided over Chhattisgarh is below normal for both the weeks.

- Prevailing weather condition is congenial for infestation of chick pea pod borer. To increase birds activity, T or Y shaped woods may be installed @ 20-25 numbers/ha in different places of field. To control for adult insect, use pheromone trap @ 2 numbers/acre.

## **Odisha**

### **Rainfall Situation**

No Rainfall was received during the period of 01 to 17 January 2018 over Odisha. The extended range weather forecast provided over meteorological Odisha for next two weeks is below normal.

- It is the optimum sowing time of summer groundnut. Farmers are advised to grow varieties like Smruti (OG 52-1), Phule Pragati, ICGS-44, TAG-24, TG-3, TMV-2 and TG 38 under irrigated conditions. Complete the sowing within a week in river banks. Apply 8 Kg N, 16 Kg SSP, and 16 Kg MOP per acre. Go for sowing in lines with a spacing of 25-30 x 10 cm.
- Prevailing cold and cloudy weather is congenial for the infestation of aphids in green gram, black gram, pea etc. Spray 50 ml Imidacloprid or 400 ml Dimethoate per acre.

## **West Bengal**

### **Rainfall Situation**

No Rainfall was received during the period of 01 to 17 January over West Bengal. The extended range weather forecast provided over West Bengal for next two weeks is below normal.

- Due to foggy and cloudy weather, incidence of early blight may occur in potato. Spray Mancozeb @ 2 gm per litre of water.
- As below normal rainfall is forecasted, farmers are advised to irrigate the mustard field. If infestation

of aphid occurs in the field, apply Imidacloprid 17.8 SL @ 3 ml/10 litre of water.

## **Jharkhand**

### **Rainfall situation**

No rainfall was received over Jharkhand during the period of 01 to 17 January. The extended range weather forecast provided over Jharkhand for next two weeks is below normal.

- As below normal rainfall is forecasted, farmers are advised to undertake intercultural operations in pulse and oilseed crops to conserve soil moisture and control weed.
- Farmers are advised to irrigate the potato field regularly at an interval of 7-10 days and spray fungicide Ridomil (1.5 gm per litre of water), when symptoms of late blight disease appears on crop.
- Timely sown rapeseed crops are now approaching the maturity stage. Harvest the crops when siliqua turns into bright yellow colour and dry the harvested crop under the sun for 2-3 days, before threshing.

## **Assam**

### **Rainfall Situation**

Assam received 3.4 mm of rainfall during the period of 01 to 17 January 2018, which is 65% deficit. The extended range weather forecast provided for Assam: below normal for week-1 and normal for week-2.

- Prevailing weather condition is congenial for the incidence of late blight disease in potato. Spray Mancozeb 75% @ 0.25% (2.5 g/litre) at an interval of 12 days.

## **Haryana**

### **Rainfall Situation**

No rainfall was received during the period of 01 to 17 January over Haryana. The extended range weather forecast provided over Haryana for next two weeks is below normal for both the weeks.

- As below normal temperature and frost is anticipated at few places, farmers are advised to apply light irrigation in rapeseed, preferably in evening hours.
- Due to possibility of dry weather and below normal rainfall, farmers are advised to undertake intercultural operations and irrigate the field as per the requirement in *rabi* crops. Intercultural operations are advised for conserving the moisture and removing weeds in mustard.

## **Himachal Pradesh**

### **Rainfall Situation**

Rainfall received during the period of 01 to 17 January over Himachal Pradesh is 0.2 mm. The extended range weather forecast provided over Himachal Pradesh for next two weeks is below normal for both weeks.

- As below normal rainfall is forecasted, the farmers are advised to irrigate their crops, wherever irrigation facilities are available.
- Cold wave condition is likely to prevail in low lying and valley areas of the state. Farmers are

advised to protect the animals from low temperature conditions likely to prevail during morning and evening hours.

## **Uttarakhand**

### **Rainfall Situation**

No Rainfall was received during the period of 01 to 17 January over Uttarakhand. The extended range weather forecast provided over Uttarakhand for next two weeks is below normal for both the weeks.

- As below normal rainfall is forecasted, farmers are advised to undertake weeding and earthing up operations as early as possible. Straw mulching should be done to conserve soil moisture.

## **Punjab**

### **Rainfall Situation**

No Rainfall was received during the period of 01 to 17 January 2018 over Punjab. The extended range weather forecast provided for Punjab is below normal for both the weeks.

- Farmers are advised to sow sunflower varieties like PSH 1962, DK 3849, PCH 996, PSH 569, PSFH 118 and SH 3322 under irrigated conditions.
- Farmers are advised to monitor field for incidence of late blight of potato and if symptoms appears, spray Indofil M-45 @ 500-700 g in 250-350 litres of water per acre.
- As chances of frost occurrence are there, farmers are advised to provide light irrigation to low temperature sensitive crops like potato, sugarcane, peas and napier bajra.

## **Jammu**

### **Rainfall Situation**

Rainfall received during the period of 01 to 17 January 2018 over Jammu and Kashmir is 0.5 mm. The extended range weather forecast provided over Jammu & Kashmir is below normal for both the weeks.

- As below normal rainfall is forecasted, farmers are advised to provide irrigation as per the requirement in wheat.
- In Mustard, farmers are advised to give light irrigation or smoke to prevent frost injury.

*Disclaimer:* The predictability of weather depends on many factors which are dynamic in nature. The success of agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.