



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

**Validity: 24 November - 07 December 2017**

**Date of Issue: 24 November 2017**

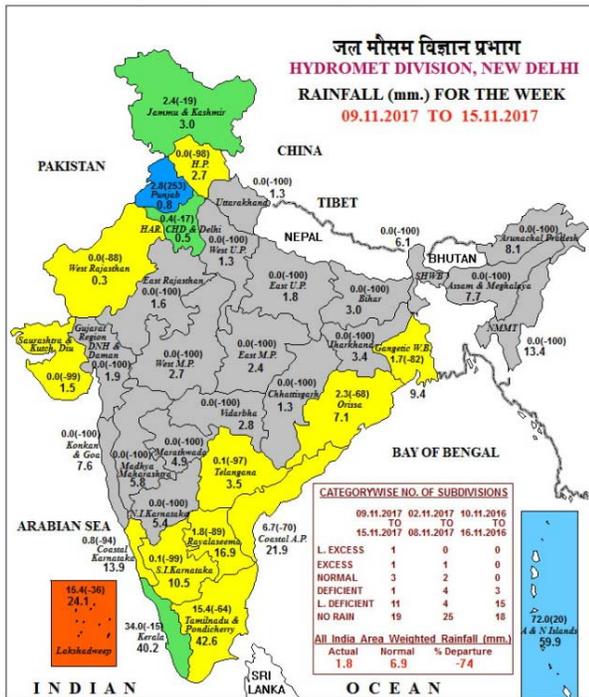
**Issued by  
Indian Council of Agricultural Research (ICAR)  
All India Coordinated Research Project on Agricultural Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad  
&  
Earth System Science Organization  
India Meteorological Department**

## Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

### Realized Rainfall

(9 to 22 November 2017)

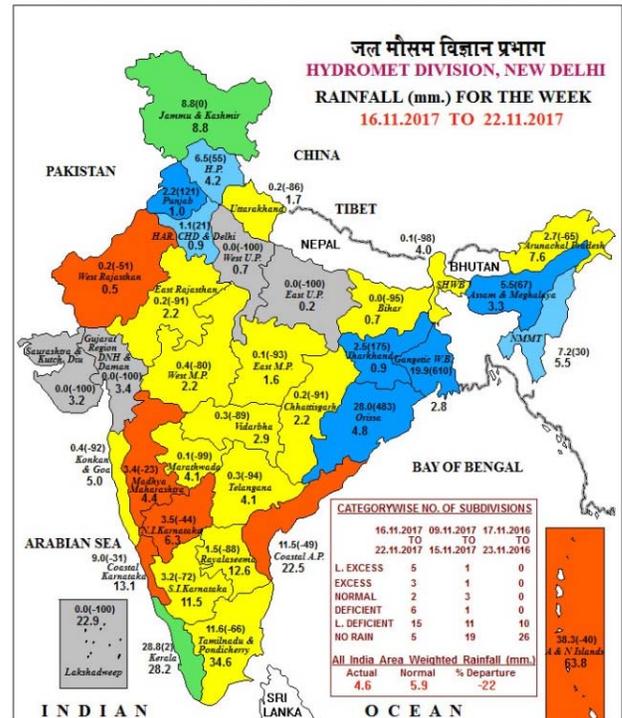
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



**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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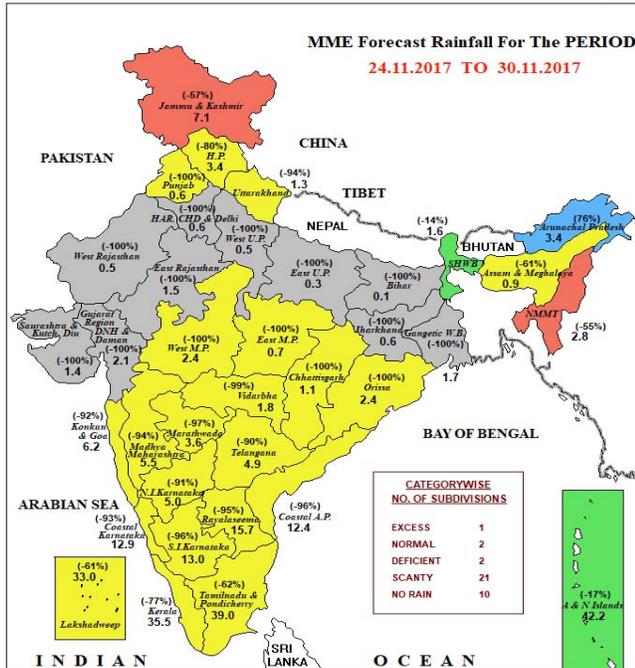
- Normal or above normal rainfall occurred during last two weeks in Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi and Kerala .
- Normal or above normal rainfall occurred in either of the last two weeks in Himachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, Gangetic West Bengal, Andaman & Nicobar Islands.
- Below normal rainfall/no rain occurred in the last two weeks in Uttarakhnad, Uttar Pradesh, Rajasthan, Gujarat, Maharashtra, Madhya Pradesh, Chhattisgarh, Bihar, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Karnataka, Telangana, Andhra Pradesh, Tamil Nadu and Lakshadweep.

## Extended Range Forecast System

### Subdivisionwise rainfall forecast maps for the next 2 weeks (IC – 22 November)

(24 November to 7 December 2017)

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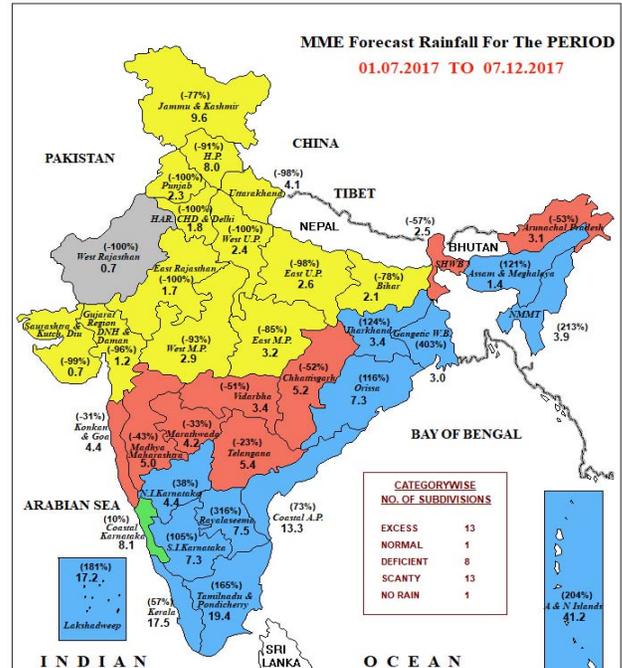


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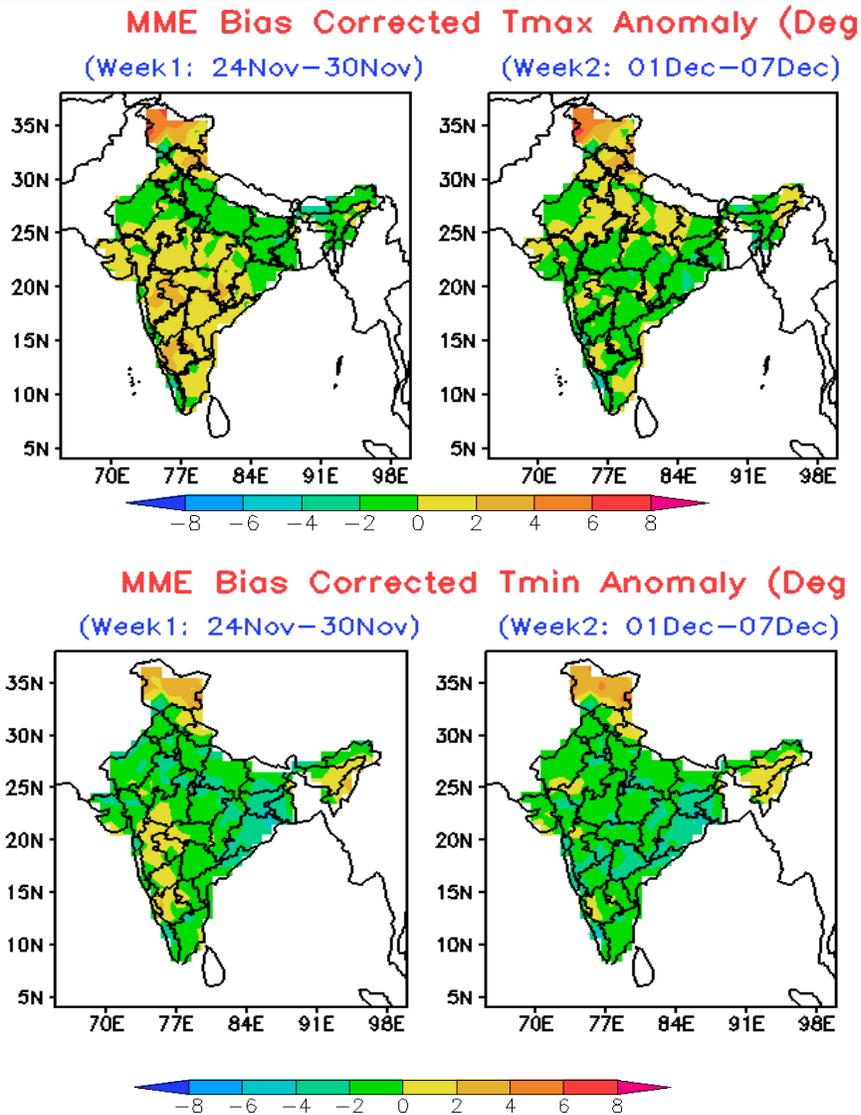
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**Week 1:** South Bay of Bengal is expected to be active with some rainfall only over the coastal Tamil Nadu region and Kerala coast. However, the north east monsoon rainfall over the southern peninsula region including Tamil Nadu is expected to be below normal during the week.

**Week 2:** The activity over the Bay of Bengal is expected to increase with increase in rainfall over the eastern coastal states of India and also the increase in rainfall over the north east monsoon subdivisions (Tamil Nadu, Rayalaseema, SIK, Kerala and Coastal Andhra Pradesh) there by the first week of December is expected to receive above normal NE monsoon rainfall.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) for next 2 weeks (IC – 22 November)  
(24 November to 7 December 2017)**



- Maximum Temperature:** Below normal Tmax over parts of Northwest India, northeast India and Indo-Gangetic plain, whereas, above normal Tmax over rest of the region during week 1.  
**During week 2:** Except over some parts of northern India Tmax will be mostly below normal over the country during week 2.
- Minimum Temperature (TMin):** Winter has already set in and Tmin is expected to be below normal over most parts of India during week 1 and week 2.

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

7 December 2017

### Agromet Advisories

#### **Tamil Nadu**

##### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over Tamil Nadu is 262.2 mm, which is 18% deficit compared to the normal. The extended range weather forecast provided for next two weeks [24 to 30 November (week-1) and 01 to 07 December (week-2)] for Tamil Nadu is below normal in week-1 and above normal in week-2.

- The present weather condition is conducive for incidence of shoot fly in *rabi* sorghum and yellow mosaic virus in pulses. To control shoot fly, spray Dimethoate 30 EC @ 500 ml/ha during week-1, as below normal rainfall is forecasted. To control yellow mosaic virus, spray Dimethoate 30 EC @ 500 ml / ha or Thiamethoxam 75 WS 1 g/ litre and repeat after 15 days, for effective control of vector whitefly.
- Present weather condition is conducive for incidence of stem weevil in cotton. To control the stem weevil, drenching collar region with chlorpyrifos 20 EC @ 2.5ml/ litre on 15 and 30 days after sowing and earthing up are recommended during week-1.

#### **Andhra Pradesh**

##### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over meteorological sub divisions of the state are: Rayalaseema: 252.9 mm (37% excess) and Coastal AP: 168.3 mm (40% deficient). The extended range weather forecast provided for next two weeks for both subdivisions of the state is below normal for week-1 and above normal for week-2.

- Farmers of Godavari and Krishna districts; and Nellore, Chittoor and Kurnool districts are advised for utilizing the forecasted above normal rainfall during week-2 and take up sowing of black gram and green gram in uplands. Yellow mosaic virus resistant blackgram varieties like GBG 1, PU 31, TBG 104 and greengram varieties like LGG 460, WGG 42, IPM 2-14 are recommended.
- Farmers of north coastal AP, Southern zone and scarce rainfall zone can take up sowing of *rabi* groundnut under irrigated conditions up to 15 December. Farmers are advised to take up seed treatment with Imidacloprid or Thiomethaxom @ 5ml/kg and mancozeb @ 3g/kg of seed.
- In scarce rainfall zone, southern zone and Krishna zone, farmers are advised to monitor the incidence of spotted pod borer in pigeon pea. If incidence is observed, spray of Chlorpyrifos 20 EC @ 2.5ml/litre of water is recommended during week-1.
- Leaf folder incidence was observed in paddy crop in southern and north coastal zones. For control of leaf folder farmers are advised to spray chlorpyrifos @ 2.5 ml or cartap hydrochloride @ 2 g/l of water

## **Maharashtra**

### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over meteorological sub divisions of the state is: Vidarbha: 57.8 mm (15% deficient); Marathwada: 100.4 mm (14% surplus); Madhya Maharashtra: 116.2 mm (21% surplus) and Konkan: 157.4 mm (12% surplus). The extended range weather forecast provided for both the weeks for all the subdivisions of Maharashtra are below normal.

### **Konkan and Goa**

- Due to forecast of dry weather condition, there may be possibility of incidence of mango hopper and tea mosquito bug on cashew. If infestation is observed, farmers are recommended to spray Deltamethrin 2.8% EC @ of 9 ml per 10 liter of water along with sticking agent to control mango hopper and Lambda Cyhalothrin 5% EC @ 6 ml per 10 liter of water along with sticking agent to control Tea mosquito bug in cashew.

### **Madhya Maharashtra**

- Present weather condition favors attack of thrips in chili and to control them, spray diamethoate 30% EC @15 ml or lambda cyhalothrine 5% EC @ 6 ml per 10 litre of water, alternately.

### **Marathwada**

- Prevailing weather conditions is congenial for stem borer incidence in *rabi* sorghum. To control, spray of Quinalphos 25 EC @ 20 ml or Cholorpyriphos @ 25 ml per 10 liter of water is recommended.
- Ratooning must be avoided in cotton crop to break the continuity of pests. Picking of bolls should be done before December. Remaining plant parts should be collected and destroyed properly.
- Due to cloudy condition in last week, incidence of *Helicoverpa armigera* may increase in pigeonpea. Farmers are recommended to spray Quinalphos 25 EC @ 28 ml per 10 litre of water.

## **Chhattisgarh**

### **Rainfall situation**

Rainfall received during the period of 01 October to 22 November 2017 over Chhattisgarh is 61.8mm, which is 11% deficit over the normal. The extended range weather forecast provided for Chhattisgarh is below normal for both the weeks.

- Farmers are recommended to go for *rabi* sowing of pulses and advised to take up seed treatment with Carbendazim @ 1.5 gram + Rhizobium culture @ 6 to 10 gram and Trichoderma powder @ 6 to 10 gram/kg seed, wherever assured irrigation is available.
- As below normal rainfall is forecasted, farmers are advised to go for earthing up in the banana

plantations.

## **Jharkhand**

### **Rainfall situation**

Rainfall received during the period of 01 October to 15 November 2017 over Jharkhand is 104.0 mm, which is 27% excess to the normal. The extended range weather forecast provided for Jharkhand is no rainfall during week-1 and above normal rainfall during week-2.

- Farmers are advised for weeding in wheat sown in October. Spraying of weedicide Isoproturon @ 300 gm a.i. or 2,4-D @ 200 gm a.i. in 240 liter of water to control weeds in one acre of land.
- Weather condition is suitable for the cultivation of Barley, Linseed, Chick pea and Pea, where assured irrigation is available. Farmers are recommended to use the certified seeds and seed treatment with fungicides like Bavistin @ 2 gm per kg of seed to avoid seed borne diseases.
- Farmers, having assured irrigation facility are recommended to go for sowing of potato immediately. Recommended variety of potato for this region is Kufri Ashoka, Kufri Pukhraj, Kufri Lalima, Kufri Pushkar and Kufri Kanchan etc.

## **Rajasthan**

### **Rainfall Situation**

During the period of 01 October to 22 November 2017, two subdivisions of Rajasthan viz., West Rajasthan and East Rajasthan received 0.5 mm and 0.2 mm rainfall, respectively, which is 93% and 99% deficient for West and East Rajasthan, respectively. The extended range weather forecast provided for West Rajasthan has no rainfall for both the weeks and East Rajasthan has no rainfall on week-1 and below normal rainfall on week-2.

- Farmers are advised to avoid sowing of mustard, as under very late sown conditions, yield will be reduced drastically and chances of aphid attack will be more.
- Hoeing and thinning should be done in mustard, wherever crop is 15 to 20 days old and maintain plant to plant distance of 10-20 cm. Top dressing of 30 kg nitrogen along with irrigation where, the crop has attained 30-35 days is also recommended.

## **Bihar**

### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over Bihar is 49.6 mm, which is 30% deficient compared to the normal. The extended range weather forecast provided for Bihar is 'no rainfall' for week-1 and below normal for week-2.

- Present weather is favorable for sowing of *rabi* maize, wherever assured irrigation is available. So, farmers are advised to go for maize sowing with recommended varieties such as Shaktiman-1 (white), Ganga-11 orange yellow, Rajendrasanker makka-1 (hybrids); Dewki white, Lakshmi white and Suaan yellow (composite maize). Seed rate @ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed. Application of 10-15 ton FYM ,50 kg

nitrogen, 75 kg phosphorus and 50 kg Potash per hectare is advised before sowing.

- Weeding is advised in vegetables. Provide light irrigation in vegetables such as cauliflower, cabbage, tomato, pea, chilli, brinjal, garlic etc as per the existing soil moisture.

## **Assam**

### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over Assam is 222.2 mm, which is 27% surplus compared to the normal. The extended range weather forecast provided for Assam is below normal for week-1 and above normal for week-2.

- The prevailing weather conditions and the above normal rainfall forecasted for week-2 are suitable for rabi sowing. Farmers are advised to go for field preparatory operations for *rabi* sowing.
- Recommended crops and varieties are,
  - Boro rice: Mahsuri, IR-50, Dinanath, Bishnuprasad, Jyotiprasad, Kanaklata and Dinanath may be sown in the nursery bed during this month.
  - Rapeseed & mustard: M-27, TS-36, TS-38 etc.
  - Potato: Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Badshah, Kufri Sindhuri.
  - Seed bed preparation for tomato: Punjab Chhuhara, ArkaAlok, Pusa Rubi, Sioux, Punjab Keshri, Arka Abhijit, BT-1 etc.

## **Haryana**

### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over Haryana is 1.5 mm, which is 93% deficit over the normal. The extended range weather forecast provided for Haryana is no rain for week-1 and below normal for week-2.

- Due to Possibility of dry weather, farmers are advised to complete the sowing of Barley with recommended varieties BH 393, BH 902, BH 885, and BH 986, where assured irrigation facilities are available. Before sowing, seeds should be treated with Bavistin or Vitavax @ 2.0 g per Kg of seed.
- In view of anticipated dry weather, farmers are advised to provide irrigation as per the requirement in fodder berseem, rapeseed and mustard.
- Due to Possibility of dry weather and favourable temperature, sowing of wheat is advised under assured irrigation. Recommended varieties are WH 283, WH 542, DBW 17, WH 711 and WH 1105. Before sowing seeds should be treated with Bavistin or Vitavax @ 2.0 g per kg of seed.

## **Jammu**

### **Rainfall Situation**

Rainfall received during the period of 01 October to 22 November 2017 over Jammu and

Kashmir is 11.6 mm, which is 81% deficit over the normal. The extended range weather forecast provided for J&K is below normal for both the weeks.

- Farmers are recommended for sowing of wheat varieties viz. PBW-550, HD-2967 under irrigated conditions
- Farmers are advised to hoeing and weeding in mustard crop in order to conserve the soil moisture. Apply 1<sup>st</sup> dose of urea under sufficient soil moisture condition. Install delta sticky traps (5/kanal) to monitor and control aphid.

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