



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

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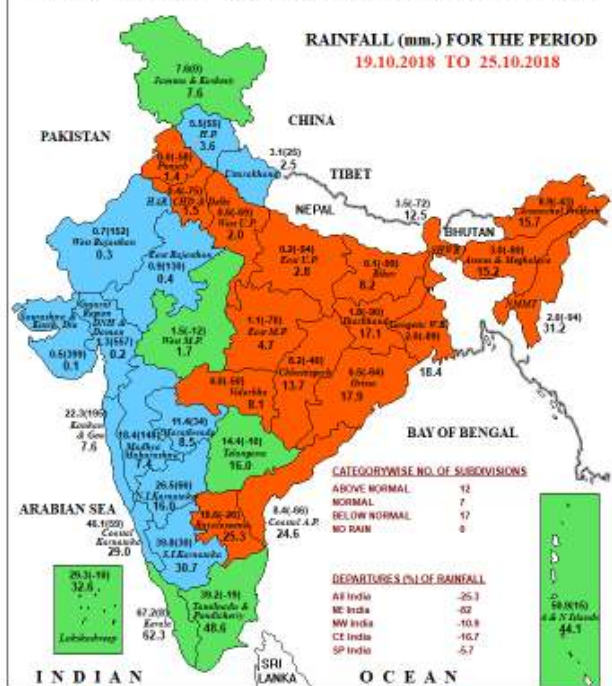
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&
Earth System Science Organization
India Meteorological Department

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 17 October) (19th October to 1st November 2018)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

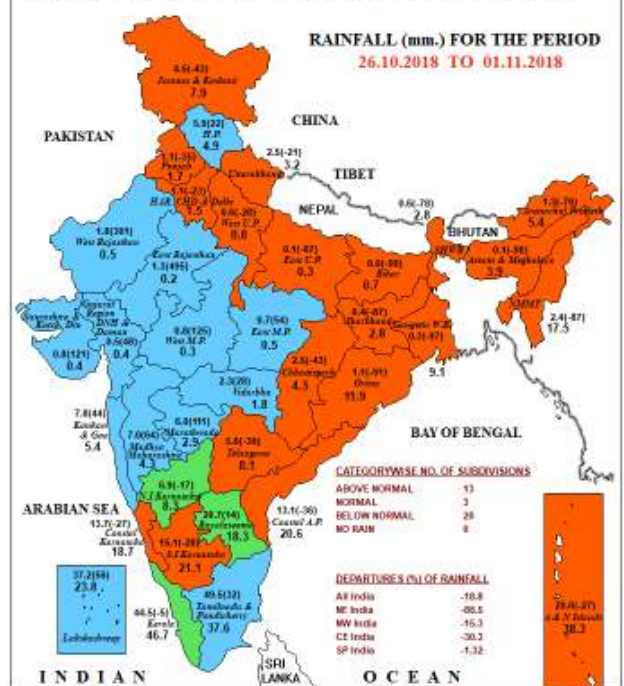


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+15% TO -15%)
■ BELOW NORMAL (-20% TO -55%) ■ NO RAIN (-100%) ■ NO DATA

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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Extended Range Rainfall Forecast

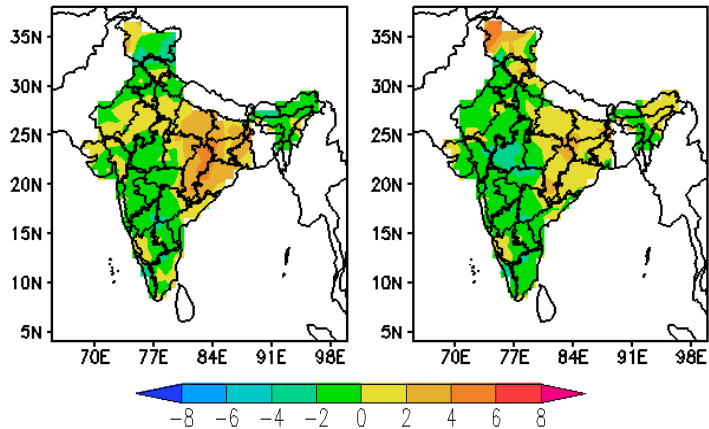
- Week 1 (19.10.2018 to 25.10.2018) and Week 2 (26.10.2018 to 01.11.2018): Main rainfall likely over southern peninsula and part of west coast of India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 17 October)
(19th October to 1st November 2018)**

MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 19Oct–25Oct)

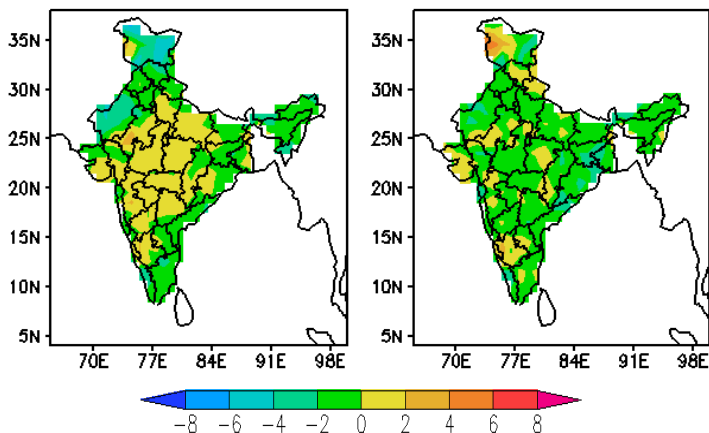
(Week2: 26Oct–01Nov)



MME Bias Corrected Tmin Anomaly (Deg)

(Week1: 19Oct–25Oct)

(Week2: 26Oct–01Nov)



Maximum Temperature (Tmax)

- **Week 1 (19.10.2018 to 25.10.2018) and Week 2 (26.10.2018 to 01.11.2018):** Tmax likely to be mostly above normal over eastern part and below normal over western part.

Minimum Temperature (Tmin)

- **Week 1 (19.10.2018 to 25.10.2018) and Week 2 (26.10.2018 to 01.11.2018):** Mostly below normal Tmin likely during week 1 over northwest India and eastern coastal region. The below normal Tmin area likely to be expanded to most of India during week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 1st November 2018

Agromet Advisories

Kerala

Rainfall received during the period from 01 to 18 October 2018 over Kerala is 226.6 mm, which is 41% excess than normal. The extended range weather forecast provided for next two weeks (19 to 25 October to 26 October to 1 November) is normal for both the weeks.

- Destroy the affected leaves affected by spodoptra in Banana. To control it, spray quinalphos @ 2ml per one litre of water or chlorantraniliprole 3 ml/10 litre of water. Provide drainage in banana plantation. Ensure aeration and drainage in banana field.
- Plough the field for weed controlling and rain water infiltration in Arecanut. Clear drainage channels for better drainage. Apply Bordeaux mixture against Mahali diseases.
- Shoot and fruit borer affected parts in cowpea can be removed. Apply 5% Neem Kernel Suspension to control shoot and fruit borer in the initial stage. Spray Flubendiamide 2ml/10 litre of water or Chlorantraniliprol 3 ml/10 litre, if the attack is severe.

Tamil Nadu

Rainfall received during the period of 01 to 18 October 2018 over Tamil Nadu is 124.8 mm, which is 41% excess as compared to the normal. The extended range weather forecast provided for next two weeks (19 to 25 October to 26 October to 1 November) is normal for week-1 and above normal for week-2.

- Adopt soil and water conservation practices like broad bed and furrow, compartmental bunding and ridges and furrows for the dryland crops to be raised during the ensuing north east monsoon season.
- For maintaining optimum population in cotton, sorghum and pulses, thinning and gap filling to be taken up, when adequate soil moisture is available.
- Farmers are advised to monitor army worm in maize. The larvae scrapping the leaves, makes small to medium elongated pin holes and causes loss of top portion of leaves. It also feeds on tassel. If symptoms were noticed, spray any one of the following pesticides to control this pest.
 - Chlor Andrinilburol - 0.3 ml/litre.
 - Emamexon Benzoate - 0.4 ml/litre.

Maharashtra

Rainfall received during 01 to 18 October 2018 over different meteorological sub divisions of the state viz., Konkan: 34.9 mm (62% deficit), Madhya Maharashtra: 15.8 mm (72% deficit), Vidarbha: No rainfall and Marathwada: 7.7 mm (85% deficit). The extended range weather forecast provided for next two weeks (19 to 25 October to 26 October to 1 November) over Madhya Maharashtra, Marathwada and Konkan is above normal for both the weeks and for Vidarbha, below normal for week-1 and above normal for week-2.

Marathwada

- Picking of cotton crop should be done. To control sucking pests in cotton crop, go for spraying of Clothianidin 50 % @ 40 gm or Spiromesifen 22.9% @ 240 ml per acre. Protective irrigation should be applied as per the availability and requirement of water.
- Collect and destroy infected plant parts due to leaf roller in pigeonpea crop. Spray 5 % Neem seed kernel

extract (NSKE) for management of leaf roller in pigeonpea crop. Spray potassium nitrate (13:00:45) @ 150 gm per 10 litre of water in pigeonpea crop.

- For the management of rhizome fly, cover the rhizome with the help of soil and spray Chlorpyrifos 50 % @ 500 ml per acre. To control leaf spot disease in turmeric crop, spray Mancozeb 25 gm or Carbendazim 10 gm per 10 litre of water.
- Due to water stress condition, fruit drop may be observed in citrus orchard. Growth and development of fruits may not occur properly. Hence, thinning of 20% fruits from the tree is beneficial. Protective irrigation should be provided in citrus orchard.

Konkan

- There is forecast of rainfall, hence harvest the matured rice crop in morning hours and follow immediate threshing of rice; the threshed grains should be dry in sun for 3 to 4 days.
- There is forecast of rainfall, hence harvest the matured finger millet crop in morning by cutting of ear head with sickle and dry in the sun for 2-3 days and then follow threshing.
- Provide irrigation to arecanut orchard at 4-5 days interval.
- Provide irrigation to banana orchard at 7-8 days interval.
- Prepare land for sowing and nursery of brinjal, tomato, chilli, knolkol and cabbage crops.

Madhya Maharashtra

- Hoeing and thinning operation should be carried out in 10-15 days after sowing of rabi crops and farmers are advised to give protective irrigation to crops.
- To control attack of Army worm on crops like maize, sugarcane, use 5 tricocard per hectare. Under severe incidence, spray chlorpyrifos/ quinalphos/ Trizophos @ 15-20 ml per 10 litre water.
- For control of powdery mildew in ber, spraying of contaf @ 1 ml per litre water should be done.
- To avoid the incidence of stem borer in Rabi sorghum, seed should be treated with Thiamethoxam 35 % F.S 10 ml/ Imadacloprid 48 % F.S 10 ml per kg seed followed by 4 gm Sulphur per kg seed for control of smut disease followed by biofertilizers viz. Azotobacter, Acetobacter and P.S.B. @ 25 gm per kg seed

Rajasthan

Amount of rainfall received over East Rajasthan region is 1.1 mm (92% deficit) and West Rajasthan is 0.2 mm (95% deficit) during 01 to 18 October 2018. The extended range weather forecast provided for two weeks (19 to 25 October to 26 October to 1 November) for West and East Rajasthan is above normal for both the weeks.

- Farmers are advised to harvest soybean, maize, sorghum, green gram and bajra wherever attained physiological maturity stage, and vacate the field for sowing of rabi crops.
- Field preparation should be started for rabi crops. Ploughing and planking should be done properly.
- Sowing of mustard should be done with the row to row spacing of 30 cm. Use improved varieties for mustard like Bio-902, Varuna, NRCHB-10, Giriraj etc.
- Field sanitization should be done before sowing of rabi crops. Bunds, channels, uncultivated fields and field roads should be cleaned by removing weeds.

Assam

Rainfall received over Assam is 42.9 mm (61% deficit) during 01 to 18 October 2018. The extended range weather forecast provided for next two weeks (19 to 25 October to 26 October to 1 November) is below normal for both the weeks.

- As below normal rainfall is forecasted, farmers are advised to provide desirable irrigation to crops.
- At milky and dough stage, Gandhi bug infestation may be observed in sali rice. Farmers may take plant protection measures against Gundhi bug based on economic threshold level. To control rice bug infestation, farmers are advised to apply Malathion 5% dust @20 kg/ha.
- Farmers are advised to collect the seeds of recommended varieties of potato from reliable sources. The recommended potato varieties are Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Sindhuri.
- Farmers are advised to sow seeds of improved brinjal varieties like Pusa Kranti, Pusa Purple Long, Pusa Purple Round, Pusa Purple Cluster, Pusa Vairab, Kuchia, Pant Samrat, JC-1 etc. For planting one bigha of land with a spacing of 75 cm × 60 cm (Row to Row × Plant to Plant) 95-105 gram seeds are required.
- **Rapeseed and mustard:** Farmers are advised to prepare their lands and apply lime at least 21 days prior to sowing of seeds and also collect high yielding varieties such as M-27, TS-36, TS-38 etc. The optimum sowing time is 20th October to 20th November for getting higher yield.

Himachal Pradesh

Himachal Pradesh has received 11.5 mm of rainfall during 01 to 18 October 2018, which is 64% deficit. The extended range weather forecast provided for next two weeks (19 to 25 October to 26 October to 1 November) is above normal for both the weeks.

- Field preparation should be completed for sowing of mustard and early sowing of wheat. For sowing of these crops, farmers are advised to arrange quality seeds.
- Before rabi crop sowing (after cleaning fields), add well decomposed FYM or compost as it improves the physical and biological properties of the soil and also increases water retention capacity and nutrient status of the soil.
- Complete early sowing of wheat immediately.
- Sowing of gram and lentil should also be completed in lower areas.
- Tomato and capsicum may be transplanted in poly-houses.
- Due to white fly and sucking pests, when yellowing of leaves or dark spots on fruits start appearing in vegetable crops, spray Imidacloprid 17.8 % SC@ 1.0 ml / 3 litre of water under clear weather conditions.

Jammu

Rainfall received during 01 to 18 October 2018 over Jammu is 20.9 mm, which is 13% deficit. The extended range weather forecast provided for next two weeks (19 to 25 October to 26 October to 1 November) over Jammu is normal for week-1 and below normal for week-2.

- Sowing of Potato (var. Kufri Badshah, K.Sinduri, K.Chipsona & K.Sona) may be taken up by farmers.
- Transplant all cole crops (knol khol, cabbage, cauliflower and broccoli) without any delay.
- Farmers may go for sowing of leafy vegetables.

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