



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

**Validity for 06<sup>th</sup> to 19<sup>th</sup> April 2018**

**Date of issue: 06<sup>th</sup> April 2018**

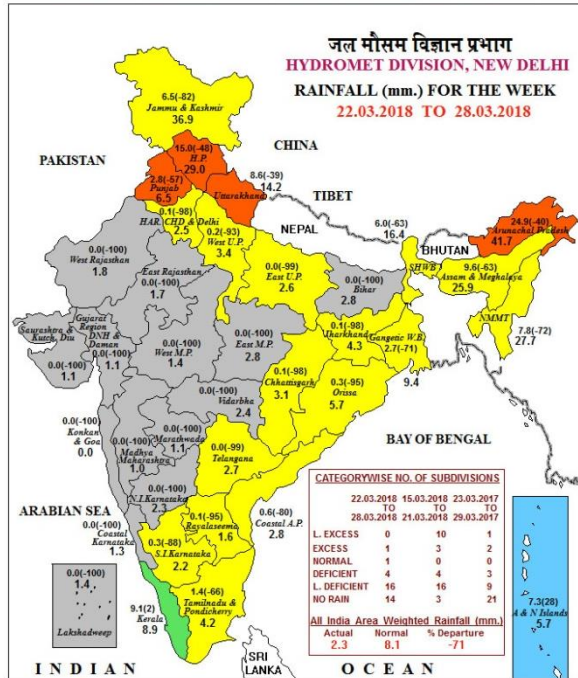
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**&**  
**Earth System Science Organization**  
**India Meteorological Department**

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

### Realized Rainfall

(22<sup>nd</sup> March to 4<sup>th</sup> April 2018)

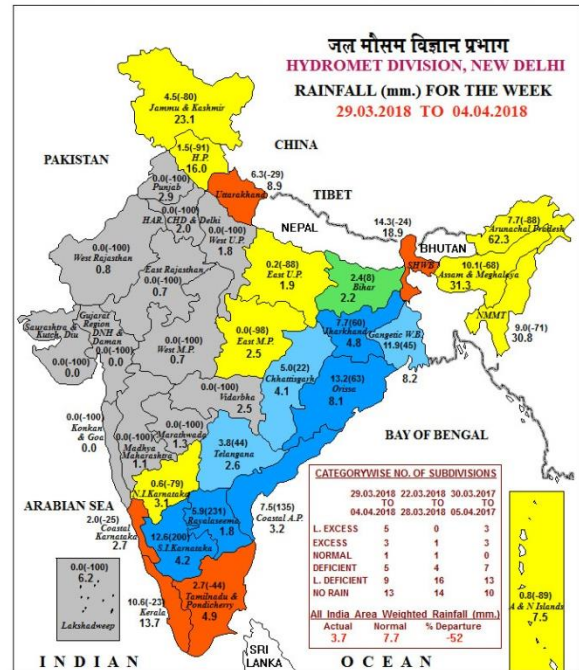
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



**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.

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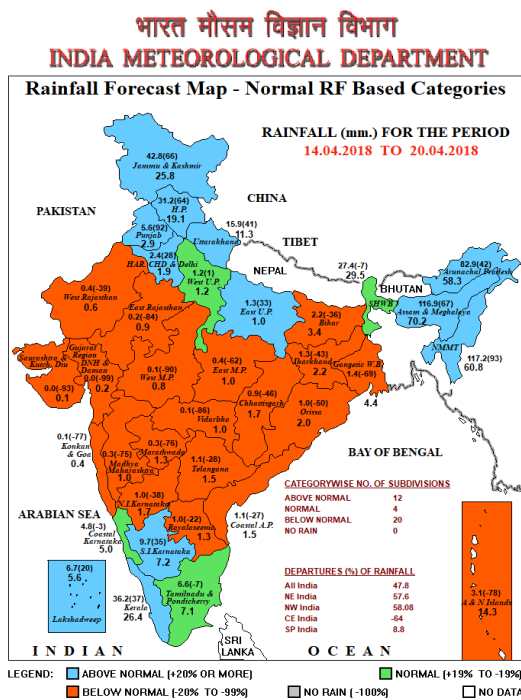
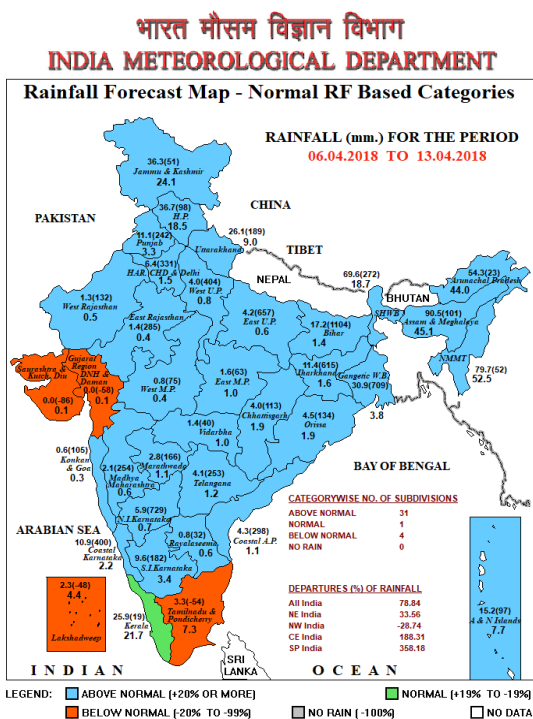
**NOTES:**  
(a) Rainfall figures are based on operational data.  
(b) Small figures indicate actual rainfall [mm.], while bold figures indicate Normal rainfall [mm.]  
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred in either of the last two weeks in Bihar, Jharkhand, Chhattisgarh, Odisha, Gangetic West Bengal, Coastal Andhra Pradesh, Rayalaseema, Telangana, South Interior Karnataka, Kerala and Andaman & Nicobar Islands.
- Below normal rainfall occurred in both the weeks in Jammu & Kashmir, Uttarakhand, Himachal Pradesh, East Uttar Pradesh, Sub-Himalayan West Bengal, Arunachal Pradesh, Assam & Meghalaya, NMMT (Nagaland, Manipur, Mizoram, Tripura) and Tamil Nadu. In Pujab, Haryana, West Uttar Pradesh below normal rainfall occurred in 1<sup>st</sup> week while in East Madhya Pradesh, North Interior Karnataka and Costal Karnataka below normal rainfall occurred during second week.
- No rain occurred over rest of the country.

# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 04 April)

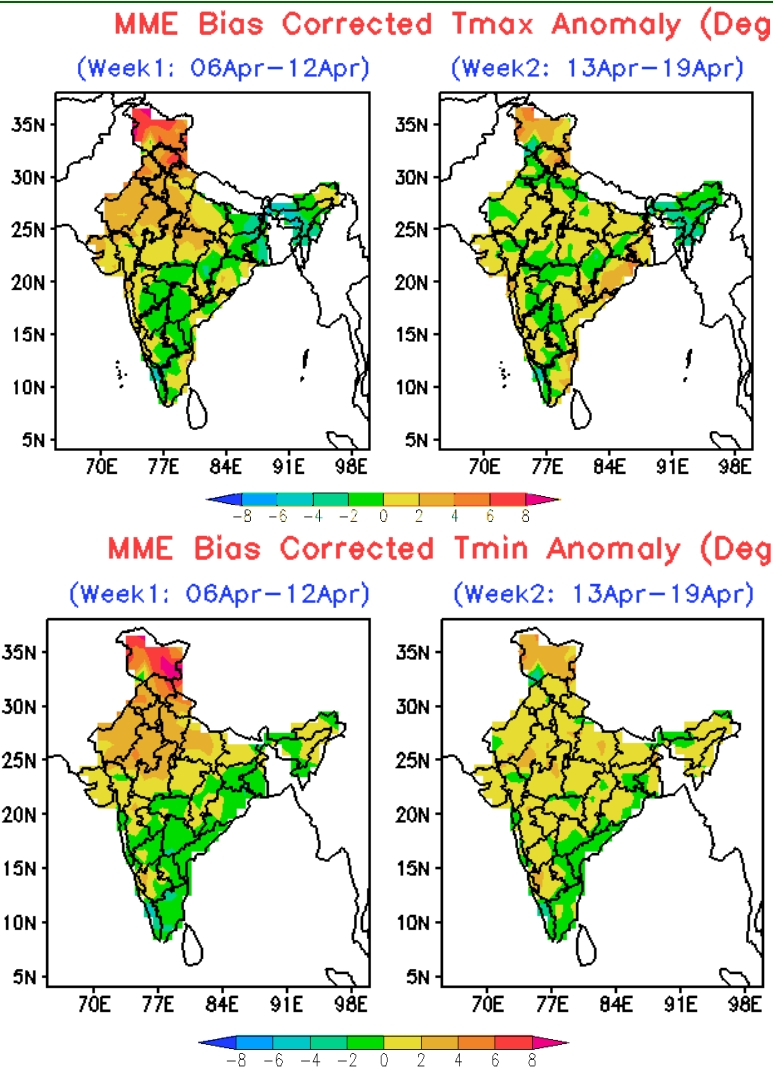
(6<sup>th</sup> to 19<sup>th</sup> April 2018)



### Extended Range Rainfall Forecast

- Week 1 (06.04.2018 to 12.04.2018):** The rainfall over North Eastern states, Gangetic West Bengal and adjoining Jharkhand region, Kerala coast, parts of south Odisha and neighbourhood during the period. Also isolated region will likely to get rainfall over extreme north India and extending towards Uttarakhand, Nepal and Bhutan to Northeast India.
- Week 2 (13.04.2018 to 19.04.2018):** The rainfall over North Eastern states, Kerala coast in south and neighbourhood during the period. Also isolated places likely to get rainfall over extreme north India.

Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast for next 2 weeks (IC – 04 April)  
(6<sup>th</sup> to 19<sup>th</sup> April 2018)



**Tmax (Maximum Temperature)**

- **Week 1 (06.04.2018 to 12.04.2018):** Above normal Tmax to continue during the period over Northwest India, northern parts of central India, western parts of India. Some parts of southern India and adjoining central India, eastern coastal belt, Northeast states will have below normal Tmax.
- **Week 2 (13.04.2018 to 19.04.2018):** Positive anomaly over Northwest India is likely to decrease. Slight above normal Tmax to continue over eastern coastal belt and parts of northern India, although isolated pockets over central India indicates below normal Tmax during the week.

**Tmin (Minimum Temperature)**

- **Week 1 (06.04.2018 to 12.04.2018) and week 2 (13.04.2018 to 19.04.2018):** Except some parts of northwest India, western India and adjoining central India Tmin will be mostly above normal.

## **Strategic Agricultural Planning based on rainfall during next two weeks till 19<sup>th</sup> April 2018**

### **Agromet Advisories**

#### **Tamil Nadu**

##### **Rainfall Situation**

Rainfall received during the period of 01 March to 04 April 2018 over Tamil Nadu is 28.1 mm, which is 30% excess compared to the normal. The extended range weather forecast provided for next two weeks [06 to 12 April (week-1) and 13 to 19 April (week-2)] are below normal for week-1 and normal for week-2.

- The forecasted weather condition is congenial for ear head bug incidence in rice. Farmers are advised to spray Neem Seed Kernel Extract 5% @ 25 kg/ha during week-1.
- In order to mitigate the effect of high temperature on animals, provide adequate cool drinking water and green fodder and spray water on gunny bags surrounding the cattle shed. Vaccination against foot and mouth disease to the cattle is advised as a prophylactic measure.

#### **Kerala**

##### **Rainfall Situation**

Rainfall received during the period of 01 March to 04 April 2018 over Kerala is 56.6 mm, which is 44% excess. The extended range weather forecast provided for next two weeks are normal for week-1 and above normal for week-2.

- Weather is conducive for leaf folder attack in paddy, which can be controlled using trichogramma cards (2CC per one acre). Cut the cards in to small pieces and fix in different regions of the field. If the attack is severe, spray Quinalphos @ 2ml/litre of water, after the forecasted spell of rainfall.
- Farmers are advised to keep vigilance against rhizome weevil. Mulch the basins to conserve soil moisture. To protect plants from Sigatoka leaf spot disease, spray 1% Bordeaux mixture or Tilt 25 EC (1ml/liter of water), after the forecasted spell of rainfall.
- Weather is conducive for the incidence of fruit fly in vegetables. Farmers are advised to remove and destroy affected and decayed fruits. Use pheromone traps like cue lure (60 nos./acre) for vegetable fruit fly or Thulasi/fruit traps. If infestation is not reduced, spray a mixture of malathion @ 2 ml/litre of water + jaggery 10 g at flowering and fruit initiation, after the forecasted spell of rainfall.

#### **Karnataka**

##### **Rainfall Situation**

Rainfall has received during the period of 01 March to 04 April 2018 over different meteorological sub-divisions of Karnataka viz, North Interior Karnataka is 9.2 (25 % excess), South Interior Karnataka is 40.8 mm (258 % excess) and Coastal Karnataka is 26.3 (331 % excess). The extended range weather forecast provided for week-1 is Above Normal for all the sub divisions of the state and for week-2 is Above normal, Normal and Below normal for South Interior Karnataka, Coastal Karnataka and North Interior Karnataka, respectively.

##### **South Interior Karnataka**

- Pigeonpea: In already harvested fields, the farmers are advised to remove the half cut stubbles of

- pigeon pea from their fields. This will avoid multiplication and spreading of sterility mosaic disease
- For soil moisture conservation in mango orchard, crop residue mulching is recommended

## **Maharashtra**

### **Rainfall Situation**

Rainfall received during 01 March to 04 April 2018 over different meteorological sub divisions of the state viz., Konkan: 0.9 mm (9271% excess), Madhya Maharashtra: 0.5 mm (86% Deficit), Vidarbha: 2.1 mm (84 % Deficit) and Marathwada: 1.7 mm (74 % Deficit). The extended range weather forecast provided over all the sub divisions of the state for week-1 is above normal and for week-2 is below Normal.

## **Vidarbha**

- Since above normal rainfall is forecasted during week-1, withhold irrigation to all summer crops (groundnut, sunflower, sesame, greengram etc.).
- With assured irrigation facility, cultivation of summer vegetables like okra, bitter gourd, tinda, ridge gourd, smooth gourd bottle gourd, cowpea, cluster bean, coriander etc. can be undertaken during this period.
- Ensure the availability of sufficient feed/forage, proper grazing time (morning/evening), provision of adequate water as well as shelter with proper ventilation during summer conditions for farm/draught livestock.

## **Marathwada**

- Farmers are advised to take a spray of 5 % Ferrous sulfate (5g/litre) if iron deficiency is observed in summer groundnut crop during week-2.

## **Konkan**

- There is a possibility for fruit drop in mango due to temperature and humidity variation. Apply irrigation for alphonso mango @ 150 to 200 litre of water at fortnightly interval to reduce fruit drop and increase the size of fruits (No need to provide irrigation during week-1, as above normal rainfall is forecasted).

## **Odisha**

### **Rainfall situation**

14.1 mm of rainfall received over Odisha during 01 March to 04 April 2018 which is 55% deficit. The extended range weather forecast provided for next two weeks are above normal for week-1 and below normal for week-2.

- Due to likely increase in temperature, efficient water management is essential. The following steps are advised to farmers during week-2:
  - ✓ Sprinkler irrigation to bring down the heat effect.
  - ✓ Irrigate in alternate rows.
  - ✓ Adopt drip/sprinkler irrigation.
  - ✓ Mulch coconut leaves 1.8 m around a coconut tree to reduce water loss.

✓ Mulching of leaves around newly planted cashew nut plants to conserve moisture. Irrigate 20 to 25 litre per plant

- Weather is conducive for Yellow Mosaic Virus infestation in summer pulses. Farmers are advised to spray 20 ml Rogor/10 litre water during week-2.
- Prevailing high diurnal variation in temperature is conducive for infestation of blast disease in rice. Farmers are advised to spray 0.6 g Tricyclazole or 1ml Edifenphos in each litre water, during week-2. Withhold top dressing of Urea for five days after the spraying. Increased temperature may favour the egg laying of stemborer in rice in the main field. Spray Profenophos @ 2ml/litre water.

## **Jharkhand**

### **Rainfall situation**

The state as a whole has received 7.2 mm of rainfall received during 01 March to 04 April 2018, which is 64% deficit. The extended range weather forecast provided for next two weeks is Above Normal for week-1 and Below Normal for week-2.

- Farmers are advised to maintain the water level in transplanted summer rice and broadcast urea after 25-30 days of transplanting. To control weeds in the field use cono-weeder after 20-25 days of transplanting.
- Farmers are requested to provide plenty of drinking water for cattle and do not allow them to exposed to sunlight long during heat wave.

## **Bihar**

### **Rainfall situation**

Bihar received 2.4 mm rainfall during 01 March to 04 April 2018, which is 78% deficit. The extended range weather forecast provided for next two weeks is Above Normal for week-1 and Below Normal for week-2.

- As above normal rainfall is forecasted during week-1, farmers are advised to take precaution for harvesting and threshing of wheat.
- Farmers are advised to monitor the field for mite infestation in okra. If infestation is found, then spray Ethion @ 1.5-2 ml/litre of water is advised during week-2 to protect crop.

## **West Bengal**

### **Rainfall Situation**

Rainfall received over SHWB & Sikkim is 62.5 mm rainfall (16% deficit) and Gangetic West Bengal is 14.9mm (55% deficit) during 01 March to 04 April 2018. The extended range weather forecast provided for week-1 is above normal for both the sub divisions of the state and for week-2 is normal for SHWB & Sikkim and below normal for Gangetic West Bengal.

- In the prevailing weather condition, there is a possibility of the incidence of Anthracnose leading to black spot in mango. To control it, spray Carbendazim 1ml/litre of water during week-2.
- Farmers are advised to start the sowing operation of summer vegetables and sesame with recommended high yielding varieties after proper seed treatment.

## **Assam**

### **Rainfall Situation**

Assam has received 68.7 mm of rainfall during the period of 01 March to 04 April 2018, which is 29% deficit. The extended range weather forecast provided for next two weeks are above normal for both the weeks.

- Prevailing weather is congenial for the infestation of cutworm in okra. Spray Malathion 50 EC @ 5 ml/3 litre of water at seven days interval on clear weather, after the forecasted spell of rainfall.
- Spring season is a peak-breeding season of the honeybees. Farmers may collect colonies from the natural sources or from the beekeepers. Rearing can be started with three or four frame worker bee having one year mated queen. Indian bee (*Apis cerana Indica*), a locally available domesticated Asiatic species can be selected.
- Considering the optimum soil moisture condition, application of first split of recommended fertilizer in coconut palm may be carried out. The fertilizer dose for each bearing palm is 750g urea, 1250g SSP, 875g MOP along with 25g of Borax.

## **Haryana**

### **Rainfall Situation**

Haryana has received 0.4 mm of rainfall during 01 March to 04 April 2018, which is 97% deficit. The extended range weather forecast provided for next two weeks are above normal for both the weeks.

- As above normal rainfall is forecasted for next two weeks, farmers are advised to complete harvesting of wheat and mustard, as early as possible.
- Farmers are advised to withhold irrigation in vegetables as above normal rainfall is forecasted for next two weeks.

## **Uttarakhand**

### **Rainfall Situation**

Rainfall received during 01 March to 04 April 2018 over Uttaranchal is 29.3mm, which is 53% deficit. The extended range weather forecast provided for next two weeks over Uttarakhand is above normal for both the weeks.

- Keeping the view of forecasted above normal rainfall, associated with thunderstorm and gusty winds, farmers are advised to postpone the irrigation in wheat and barley.
- Ensure proper drainage in field crops
- In present weather conditions, transplanting of young seedlings of tomato, brinjal, chilli in flat beds and direct sowing of cucurbits may be done.
- Farmers are advised to go for earthing up in potato, conservation of moisture through thick mulching, top dressing of urea (1%) can be applied during the vegetative growth.



## **Himachal Pradesh**

### **Rainfall Situation**

Rainfall received during 01 March to 04 April 2018 over Himachal Pradesh is 36.3 mm, which is 70% deficit. The extended range weather forecast provided for next two weeks over Himachal Pradesh is above normal for both the weeks.

- As above normal rainfall is forecasted during next two weeks, farmers are suggested to withhold irrigation application in field crops.
- Prevailing weather condition is conducive for the incidence of blight in potato and tomato. Constant field monitoring is advised. If symptoms appears, spray carbendazim @ 1g/litre of water or Dithane-M-45 @ 2g/litre of water, after the forecasted spell of rainfall.
- Farmers are advised to complete sowing of green gram in irrigated areas.

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