



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

**Validity: 22 September- 5 October 2017**

**Date of Issue: 22 September 2017**

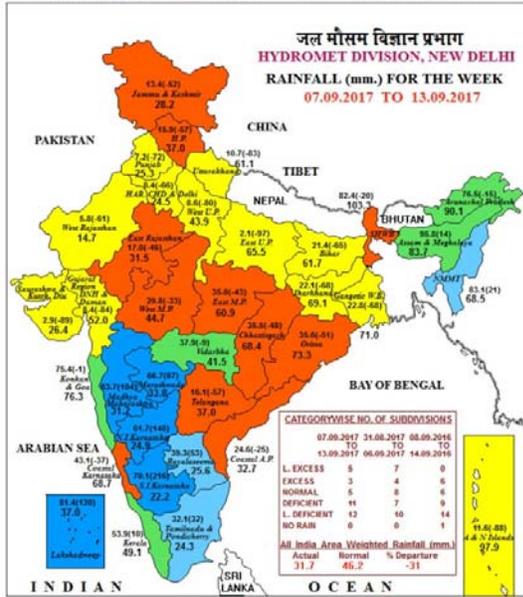
**Issued by  
Indian Council of Agricultural Research (ICAR)  
All India Coordinated Research Project on Agricultural Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad  
&  
Earth System Science Organization  
India Meteorological Department**

# Realized Rainfall and Extended Range Forecast

## Realized Rainfall

(7<sup>th</sup> to 20<sup>th</sup> September 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.

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



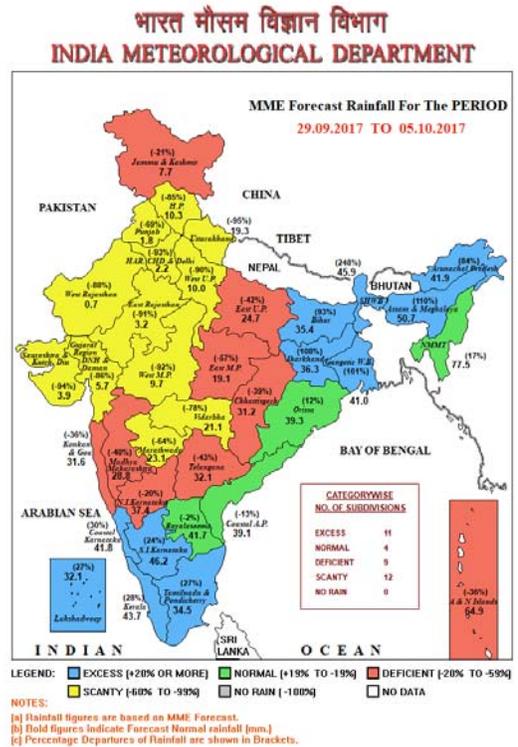
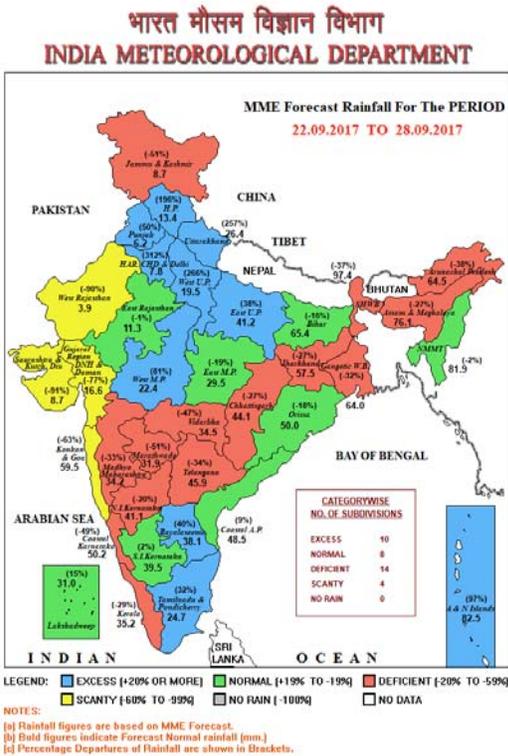
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NOTES:  
[a] Rainfall figures are based on operational data.  
[b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred during last two weeks in Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Vidarbha, Marathwada, Interior Karnataka, Rayalaseema, Kerala and Lakshadweep.
- Normal or above normal rainfall occurred in either of the last two weeks in Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Telangana, Coastal Andhra Pradesh, Coastal Karnataka, Tamil Nadu and Andaman & Nicobar Islands.
- Below normal rainfall occurred in the last two weeks over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana & Delhi, Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim.

# Extended Range Forecast System

## Subdivision wise rainfall forecast maps for the next 2 weeks (IC - 20 September) (22<sup>nd</sup> September to 5<sup>th</sup> October 2017)



- Extended Range Forecast (ERF) indicates that, during week 1 (22 – 28 September), the monsoon activity will be mainly over west Madhya Pradesh, Uttar Pradesh, Uttarakhand, Haryana and adjoining Himachal. In addition to these states, main rainfall belt will be occurring over some eastern coastal regions and southern peninsula.
- During week 2 (29 September – 05 October), the monsoon condition is likely to improve during the week compared to previous week with formation of a system over the Bay of Bengal off Odisha coast. Most of the parts of India are expected to get above normal or normal during the week except extreme northern India. Above normal rainfall is expected over all the 4 homogeneous regions with NW India and Central India having higher positive departure. The rainfall activity is expected to be concentrated mainly over east and north-east parts of the country.

**Strategic Agricultural Planning based on rainfall during next two weeks till**  
**5<sup>th</sup> October 2017**  
**Agromet Advisories**

**Deficit rainfall areas**

**Maharashtra**

Rainfall received in major meteorological sub-divisions of the state are as follows:

Vidarbha – 715 mm (22% deficit); Marathwada – 622 mm (2% deficit); Madhya Maharashtra - 819 mm (21% surplus) and Konkan - 3105 mm (10% surplus)

The extended range weather forecast provided for next two weeks (22-28 September and 29 September - 5 October) for different subdivisions of Maharashtra are: Vidarbha (below normal for both weeks); Marathwada (below normal for both weeks); Madhya Maharashtra (below normal for both weeks) and Konkan (below normal for both weeks).

**Vidarbha**

- For control of leaf eating caterpillar in pigeon pea, spray Quinalphos 25 EC @ 16 ml per 10 litres of water after current spells of rain.
- Farmers can harvest matured black gram, as below normal rainfall is forecasted in coming week.

**Madhya Pradesh**

East Madhya Pradesh has received 771 mm rainfall (24% deficit) and West Madhya Pradesh has received 692 mm rainfall (18% deficit), so far during the season.

The extended range weather forecast provided for next two weeks (22-28 September and 29 September - 5 October) for different subdivisions of Madhya Pradesh is: East Madhya Pradesh (normal and below normal); West Madhya Pradesh (above normal and below normal). The following advisories may be followed after the forecasted spell of rainfall.

- Soybean: Early maturing cultivars like JS 95-60 may be harvested, if all the leaves turned yellow and dry. In medium to late maturing cultivars, there are chances of stem fly infestation due to cloudy weather and high temperature. Application of insecticides like Dimethoate 30 EC @ 0.03% is advised in the second week.
- As rainfall is forecasted during the coming week, farmers are advised to keep the harvested crop in safe place

- Vegetables: To control sucking pest spray thiamethoxam or acetamiprid @ 0.35-0.45 gm/l. To control shoot and fruit borer in okra, tomato and brinjal, spray Triazophos @ 2.0 ml/l. solution in the second week.
- To control leaf roller in pigeon pea, apply Indoxacarb@ 5ml/10 litre water in the second week.

### **Uttar Pradesh**

Western UP has received 453 mm (39% deficit) and Eastern UP has received 604 mm (30% deficit) rainfall so far during the season.

The extended range weather forecast provided for next two weeks (22-28 September and 29 September - 5 October) for different subdivisions of Uttar Pradesh are: Western UP (above normal, below normal); Eastern UP (above normal, below normal)

- Wherever maize is in maturity stage, harvesting is advised as above normal rainfall is forecasted during 22-28 Sept.
- Wherever root weevil infestation is noticed in paddy, apply Phorate-10 G @ 10 kg/ha during second week.

### **Haryana, Chandigarh & Delhi**

The sub-division has received 312 mm rainfall so far during the season, which is 30% deficit compared to the normal rainfall for the same period. The extended range weather forecast provided for next two weeks (22-28 September and 29 September - 5 October) for Haryana, Chandigarh & Delhi is: above normal and below normal, respectively.

### **Haryana**

- Paddy: Plant hoppers can be controlled by spraying 40 ml of Confidor 17.8 SL in 100 litres of water per acre during second week.
- Cotton: Avoid moisture stress during flowering and boll formation stages. Withhold irrigation during first week, as above normal rainfall is forecasted, unless necessary.

*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 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.