



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

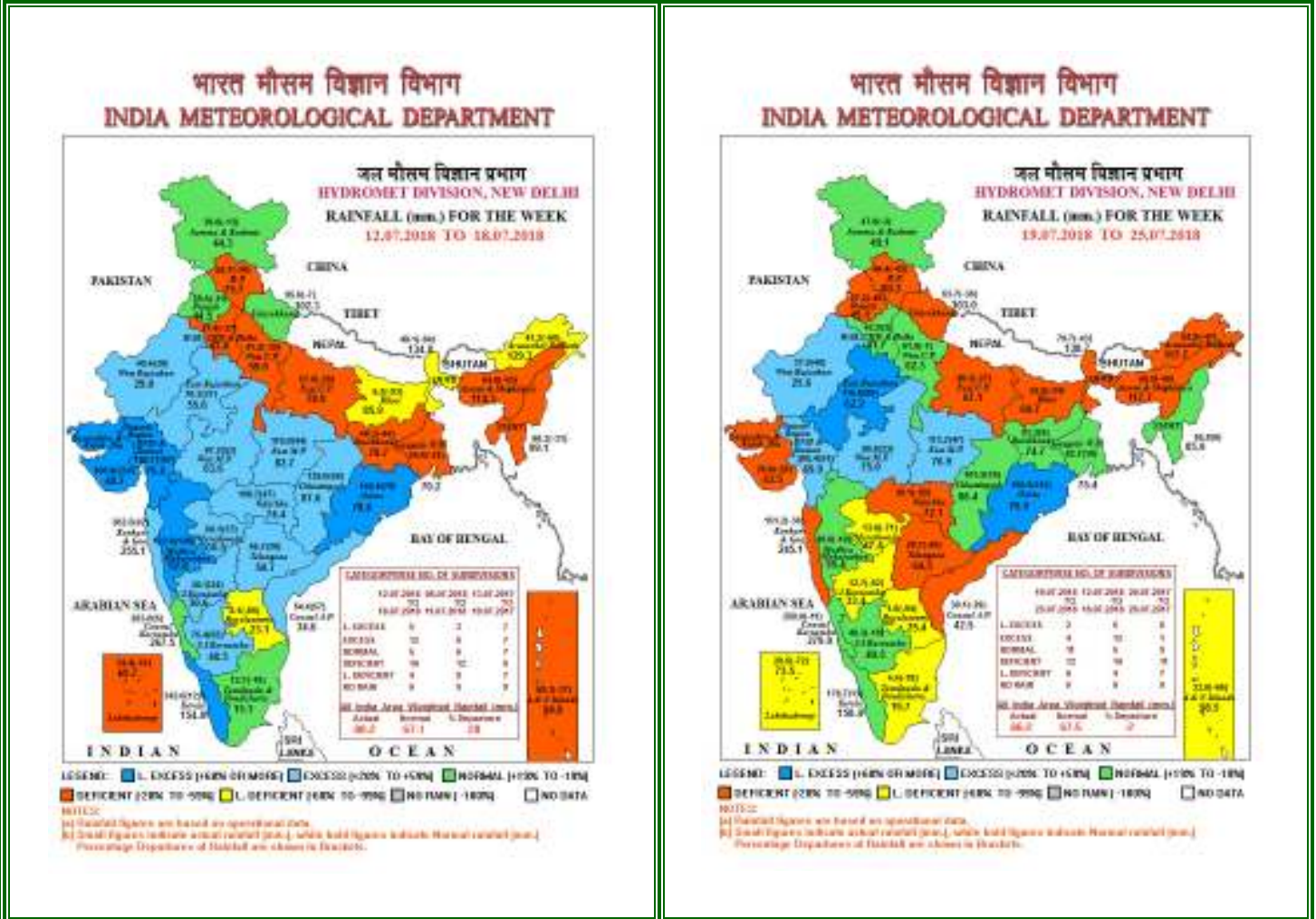
**Validity: 27 July to 09 August 2018**

**Date of issue: 27 July 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 Temperatures)**

**Realized Rainfall  
(12<sup>th</sup> to 25<sup>th</sup> July 2018)**

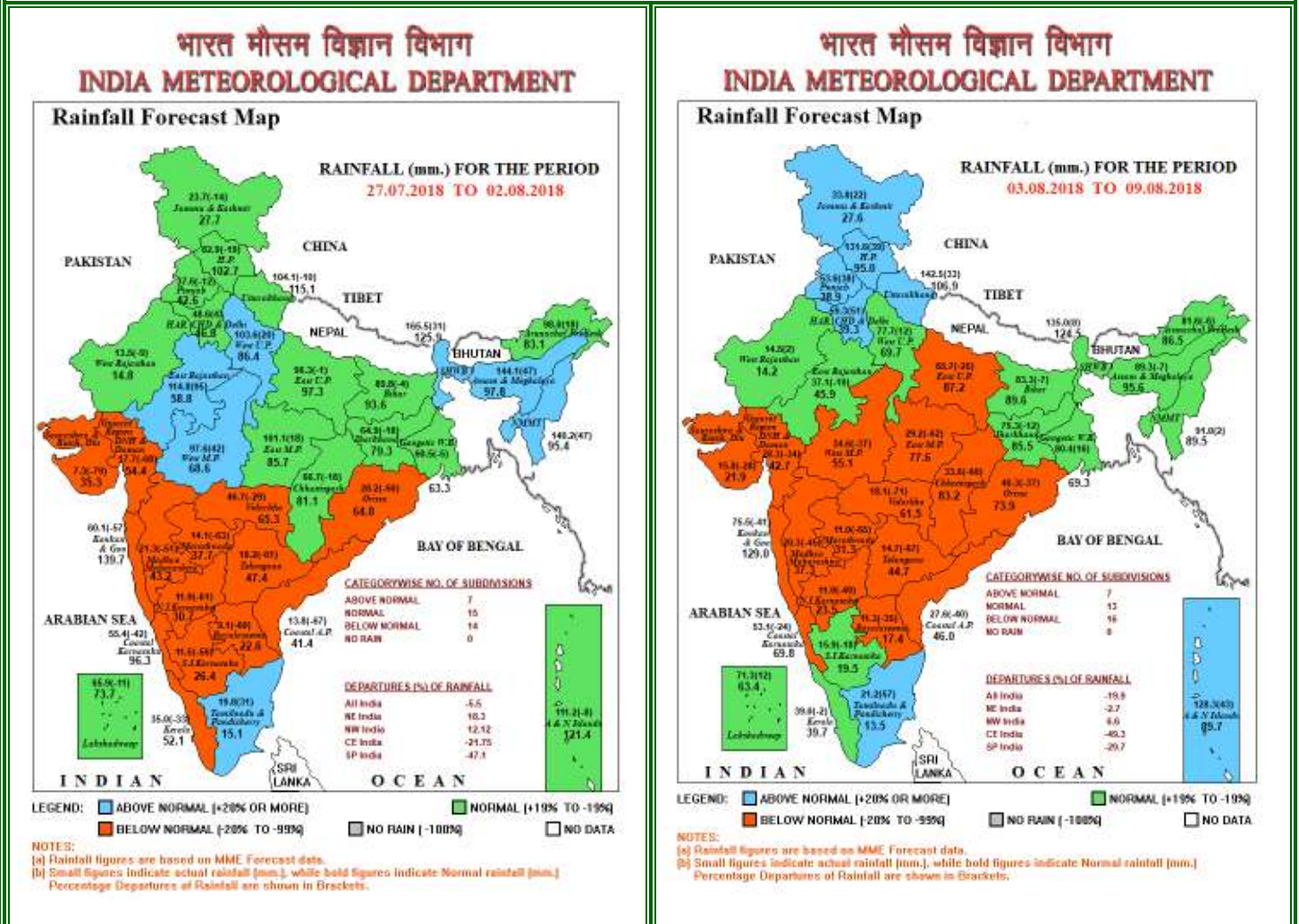


- Normal or above normal rainfall occurred during last two weeks in Jammu & Kashmir, Rajasthan, Chhattisgarh, Odisha, Madhya Pradesh, Madhya Maharashtra, Gujarat Region, Coastal Karnataka, South Interior Karnataka and Kerala.
- Normal or above normal rainfall occurred in either of the last two weeks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

# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 25 July)

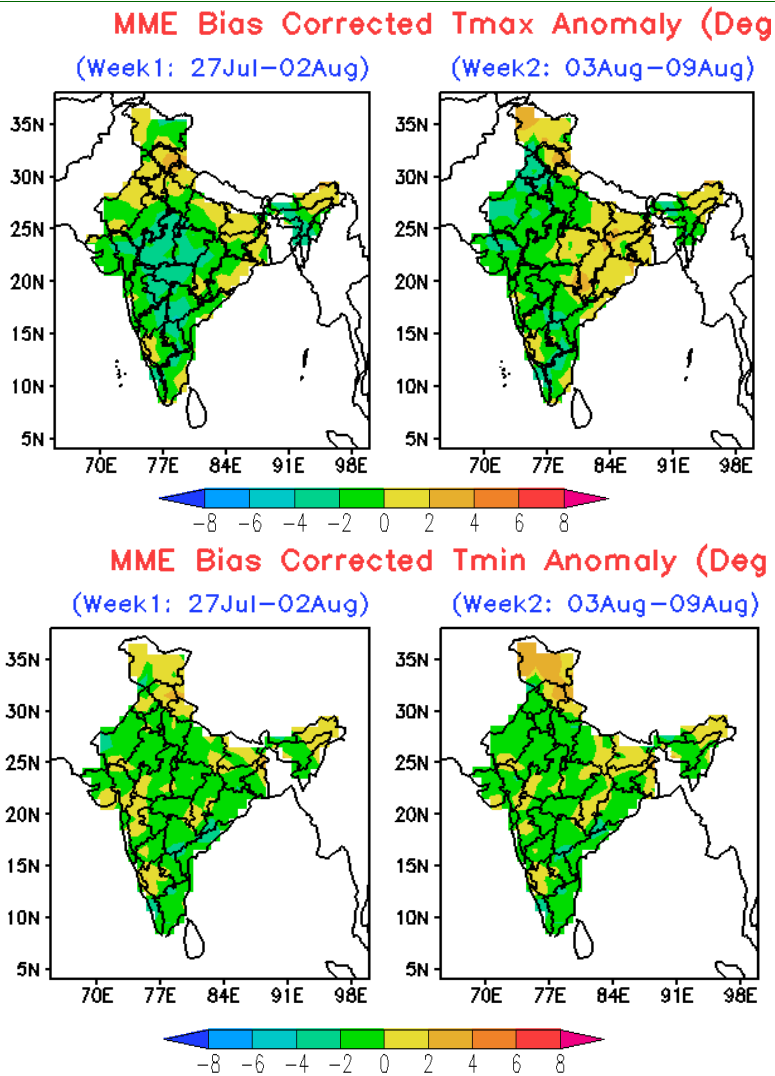
(27<sup>th</sup> July to 9<sup>th</sup> August 2018)



### Extended Range Rainfall Forecast

- **Week 1 (27.07.2018 to 02.08.2018):** Monsoon rainfall over North western and north-eastern parts of India will be normal to slightly above normal. Associated with weak monsoon circulation, rainfall over the central India and south peninsula will be below normal. The all India rainfall will be normal to slightly below normal.
- **Week 2 (03.08.2018 to 09.08.2018):** Monsoon rainfall over North western parts of India and north-eastern parts of India will be normal to slightly above normal. Associated with weak monsoon circulation, rainfall over the central India and south peninsula will be below normal. The all India rainfall will be below normal.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast for next 2 weeks (IC – 25 July)  
(27<sup>th</sup> July to 9<sup>th</sup> August 2018)**



**Tmax (Maximum Temperature)**

- Week 1 (27.07.2018 to 02.08.2018) and Week 2 (03.08.2018 to 09.08.2018): Mostly normal to below normal Tmax.

**Tmin (Minimum Temperature)**

- Week 1 (27.07.2018 to 02.08.2018) and Week 2 (03.08.2018 to 09.08.2018): Mostly normal to below normal Tmin.

## Strategic Agricultural Planning based on rainfall during next two weeks till 09<sup>th</sup> August 2018

### Agromet Advisories

#### Kerala

Rainfall received during the period of 01 June to 26 July 2018 over Kerala is 1528 mm, which is 20% excess than normal. The extended range weather forecast provided for next two weeks [27 July to 02 August (week-1) and 03 to 09 August (week-2)] are below normal for week-1 and normal for week-2.

- **Coconut:** Due to continuous rain, there is a chance of bud rot disease in coconut palm. To avoid bud rot infestation in coconut, small perforated sachets containing 2 g of Mancozeb may be tied to the top crown portion and leaf axil.
- **Banana:** Due to continuous rain, there is a chance of Erwinia rot disease in banana. Proper drainage should be ensured. As a precaution, apply lime in the basin of banana plants or bleaching powder in the irrigation channels. To improve the disease resistance, drench the basin with *Pseudomonas* @ 20g per litre of water.
- **Vegetables:** There is a chance of downy mildew attack in vegetables due to continuous rain. Application of 20g Trichoderma or 0.2% Curzate M8 per one litre of water under the leaves at 15 days interval is effective.

#### Tamil Nadu

Rainfall received during the period of 01 June to 26 July 2018 over Tamil Nadu is 107.5 mm, which is 3% excess as compared to the normal. The extended range weather forecast provided for next two weeks is above normal for both the weeks.

- Prevailing weather condition is favourable for infestation of sucking pests and fruit borers in chilli. The affected plants will show symptoms of crinkling and upward curling of leaves and elongation of petiole. For controlling this pest, spray Imidacloprid 17.8 % SL @ 3 ml/ 10 litre of water or Dimethoate 30 % EC @1.0 ml/litre, after the forecasted spell of rainfall.
- Prevailing high wind speed may damage the tall banana plantation. Farmers are advised to do propping. Prevailing weather condition is favorable for panama wilt disease incidence. To control the disease, trenching with carbendazim @ 2g/lit of water is recommended, after the forecasted spell of rainfall.

#### Karnataka

Rainfall received during the period of 01 June to 26 July 2018 over different meteorological sub-divisions of Karnataka viz, North Interior Karnataka is 1923 mm (11% deficit), South Interior Karnataka is 371 mm (14% excess) and Coastal Karnataka is 2003 mm (8% excess). The extended range weather forecast provided for next two weeks over North Interior Karnataka and coastal Karnataka is below normal for both the weeks and over South Interior Karnataka is below normal for week-1 and normal for week-2.

#### North Interior Karnataka

- Plough the land that was kept fallow across the slope for sowing of *rabi* crops so as to facilitate better conservation of soil moisture.

- Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.
- Vaccinate (ET vaccine) sheep and goats against *Enterotoxemia*

### **South Interior Karnataka**

- As wind speed is high, farmers are advised to postpone the spraying operation in agriculture and horticultural crops.
- Wherever the long duration crops like pigeonpea and castor has been sown, farmers are advised to undertake earthing up operation for better availability of soil moisture to the crops.

### **Andhra Pradesh**

Rainfall received over Coastal Andhra Pradesh is 273.0 mm (15% excess) and Rayalaseema is 97.1 mm (33% deficit) as compared to normal during 01 June to 26 July 2018. The extended range weather forecast provided for next two weeks for Coastal Andhra Pradesh and Rayalaseema are below normal for both the weeks.

- Farmers of Kadapa, Kurnool, Ananthapuramu, Prakasam districts are advised to take up sowing of rainfed cotton only after receipt of sufficient rainfall.

### **Maharashtra**

Rainfall received during 01 June to 26 July 2018 over different meteorological sub divisions of the state viz., Konkan: 2200 mm (35% excess), Madhya Maharashtra: 424 mm (22% excess), Vidarbha: 530 mm (23% excess) and Marathwada: 301 mm (2% excess). The extended range weather forecast provided for next two weeks (27 July to 02 August and 03 to 09 August) for all the subdivisions of Maharashtra are below normal for both the weeks.

### **Marathwada**

- **Soybean:** To control the infestation of leaf eating caterpillar and girdle beetle in soybean, farmers are advised to spray Profenofos 50% @ 20 ml per 10 litre of water during clear weather condition.
- **Kharif sorghum:** To control the infestation of stem borer in sorghum, soil application of Carbofuran 3% @ 3 kg per acre is recommended.
- As below normal rainfall is forecasted, farmers are advised to provide sufficient irrigation to crops, wherever irrigation facilities are available.

### **Vidarbha**

- Undertake top dressing of nitrogen fertilizer in early sown cotton @ 40 kg N/ha for irrigated Bt cotton, 35 kg N/ha for irrigated hybrid cotton.
- Drenching with copper oxychloride @ 25 g/10 litre of water is advised to avoid incidence of wilt and root rot in pigeon pea.
- As below normal rainfall is forecasted therefore farmers are advised to provide sufficient irrigation to crops wherever irrigation facilities are available.

## **West Bengal**

Rainfall received over Gangetic West Bengal during 01 June to 26 July 2018 is 439 mm, which is 16% deficit and over Sub-Himalayan West Bengal is 810 mm (20% deficit) when compared to normal. The extended range weather forecast provided for next two weeks is normal for both the weeks over both subdivision, except over Sub-Himalayan WB during week-1 (above normal).

- Aman Rice: Based on the amount of rainfall received, farmers can take up transplanting. Using the previous rain/ irrigation water, continue the transplanting operation. Farmers who are yet to transplant seedlings are advised not to apply urea before transplanting.
- Pointed gourd and Bottle gourd: In the prevailing weather condition, attack of fruit-rot due to fungus may be prevalent in the zone. Remove the infected fruits from the field. Spray Blitox (4 gm per litre) or Blue-copper oxide.

## **Bihar**

Rainfall received over Bihar during 01 June to 26 July 2018 is 276 mm, which is 40% deficit compared to normal. The extended range weather forecast provided for next two weeks is normal for both the weeks.

- In view of rainfall forecast, priority should be given for transplanting of rice in low/medium land areas.
- Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. For healthy seedlings, weeding on regular basis is advised in onion nursery.
- Sowing of greengram & black gram is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation.

## **Uttar Pradesh**

Rainfall received during 01 June to 26 July 2018 over West Uttar Pradesh is 221 mm (23% deficit) and East Uttar Pradesh is 224 mm (38% deficit). The extended range weather forecast provided for next two weeks for West Uttar Pradesh is above normal for week-1 and normal for week-2; and for East Uttar Pradesh is normal for week-1 and below normal for week-2.

- Rice: Gap filling in transplanted paddy, which was damaged due to heavy rainfall can be taken up.
- Second top dressing of urea in maize at 45-60 days after sowing can be taken up as sufficient rainfall was received during last week.
- Drain out excess rain water from the field of Maize, Sorghum, Pearl millet, blackgram, greengram and sesame in case of excess rainfall.

## **Gujarat**

Amount of rainfall received over Gujarat region is 467 mm (14% excess) and Saurashtra and Kutch is 229 mm (7% deficit) during 01 June to 26 July 2018. The extended range weather forecast provided for two weeks for both Gujarat and Saurashtra & Kutch regions is below normal for both the weeks.

- Frequent light inter-culturing operation should be done to avoid the evaporation losses of soil moisture

and to control weeds.

- Vaccinate animals against FMD and BQ to avoid disease outbreak during ensuing monsoon season.
- As below normal rainfall is forecasted, farmers are advised to provide sufficient irrigation to crops, wherever possible.

### **Rajasthan**

Amount of rainfall received over East Rajasthan region is 330 mm (31% excess) and West Rajasthan is 141 mm (20% excess) during 01 June to 26 July 2018. The extended range weather forecast provided for two weeks for West Rajasthan is normal for both the weeks and East Rajasthan is above normal for week-1 and normal for week-2.

- Top dressing of urea in maize @ 50 kg urea/ha is advised where the crop is at knee height stage, as there is adequate soil moisture available after recent rainfall event.
- Hoeing and weeding in maize, pearl millet, sorghum and soybean are advised.

### **Assam**

#### **Rainfall Situation**

Rainfall received over Assam is 639 mm (35% deficit) during 01 June to 26 July 2018. The extended range weather forecast provided for Assam is above normal for week-1 and normal for week-2.

- Sali Rice: Farmers are advised to continue field preparation for rice cultivation. Apply recommended dose of FYM or compost @ 10 tons/ha during land preparation.
- Summer Bottle Gourd: Farmers are advised to complete the sowing of summer bottle gourd seeds within this month. Improved varieties like, Pusa Summer Prolific Long, Pusa Summer Prolific Round, Pusa Meghdoot etc. are recommended for summer sowing.
- Fishery: Farmers can rear fingerlings of carp in their fingerling rearing tanks and nurseries at the rate of 25-30 fry per sq. m.

### **Punjab**

Rainfall received over Punjab is 225 mm rainfall (13% excess) during 01 June to 26 July 2018. The extended range weather forecast provided for Punjab is normal in week-1 and above normal in week-2.

- Due to heavy rains, incidence of para wilt may occur in cotton. If incidence is noticed, spray 1 gram Cobalt chloride in 100 litres of water within 24 hours of attack during week-1.
- Do not allow the rain water to stand in the maize fields, as it is highly sensitive to standing water and promotes bacterial stalk rot.
- This is optimum time to sow the *kharif* greengram varieties ML 2056 and ML 818 at the seed rate 8 kg seed per acre.

### **Haryana**

Haryana has received 172 mm of rainfall during 01 June to 26 July 2018, which is 7% deficit. The extended range weather forecast provided for next two weeks is normal for week-1 and above normal for week-2.



- **Rice:** As normal and above normal rainfall is forecasted for next two weeks, farmers are advised to undertake transplanting of late sown rice under irrigated conditions. Avoid the deep planting of seedlings and plant 2 plants per hill.

### **Himachal Pradesh**

Rainfall received during 01 June to 26 July 2018 over Himachal Pradesh is 301 mm (14% deficit). The extended range weather forecast provided for next two weeks over Himachal Pradesh is normal for week-1 and above normal for week-2.

- Farmers who plan to establish new orchards in this rainy season are advised to dig the pits of the dimension 1m x 1m x 1m. Fill the pits with well decomposed FYM. For prevention against termite and white grub infestation, the pits should be treated with 5ml of Chlorpyrifos 20 EC per litre water.

### **Jammu**

Rainfall received during 01 June to 26 July 2018 over Jammu is 294 mm, which is 15% excess. The extended range weather forecast provided for next two weeks over Jammu is normal for week-1 and above normal for week-2.

- **Maize:** Due to further chances of rainfall, farmers are advised to ensure proper drainage in crop fields. Monitor crop for infestation of stem borer.
- In horticulture crops, withhold irrigation as rain is forecasted for next two weeks.

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