



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

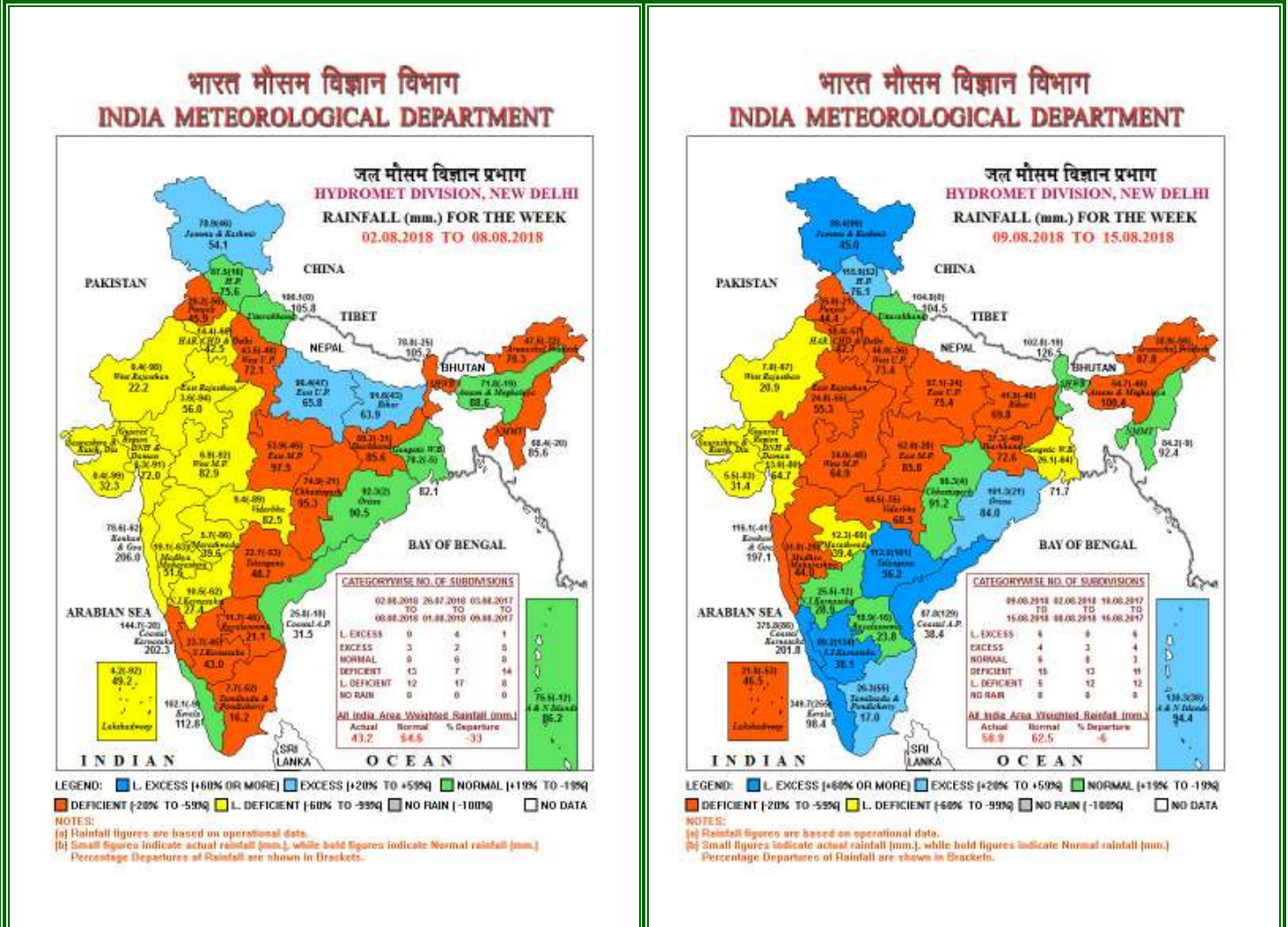
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**&**  
**Earth System Science Organization**  
**India Meteorological Department**

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

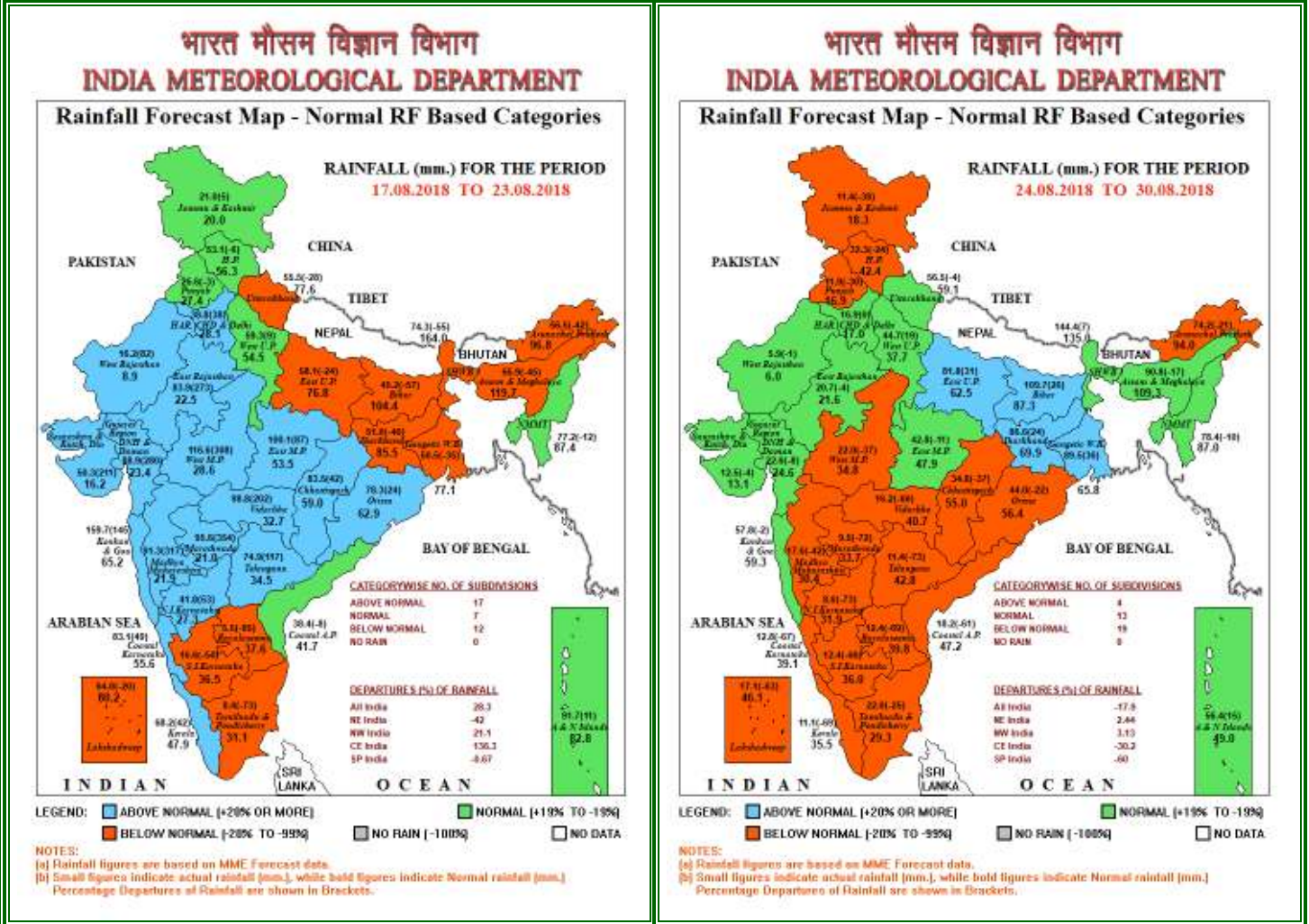
### Realized Rainfall (2<sup>nd</sup> to 15<sup>th</sup> August 2018)



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

# Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 15 August)  
(17<sup>th</sup> to 30<sup>th</sup> August 2018)



## Extended Range Rainfall Forecast

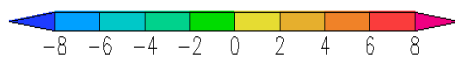
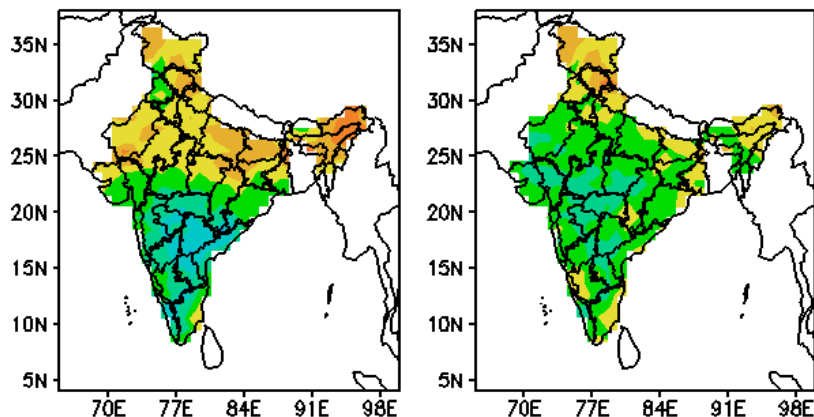
- Week 1 (17.08.2018 to 23.08.2018):** Most of the central belt of India will be active monsoon condition associated with the movement of the system from Bay of Bengal to the region.
- Week 2 (24.08.2018 to 30.08.2018):** Mostly below normal rainfall over India except the region of east Uttar Pradesh, Bihar, Jharkhand and adjoining Gangetic West Bengal, which will get above normal rainfall. However, over country as a whole it is below normal rainfall.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 15 August)  
(17<sup>th</sup> to 30<sup>th</sup> August 2018)**

**MME Bias Corrected Tmax Anomaly (Deg)**

(Week1: 17Aug–23Aug)

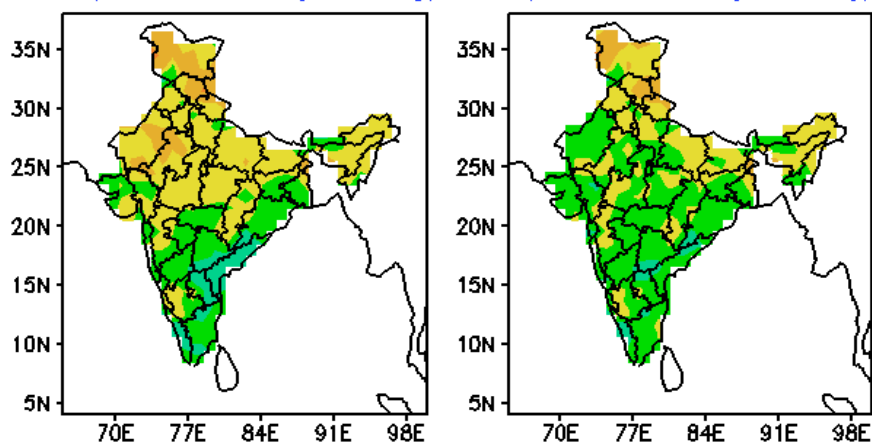
(Week2: 24Aug–30Aug)



**MME Bias Corrected Tmin Anomaly (Deg)**

(Week1: 17Aug–23Aug)

(Week2: 24Aug–30Aug)



**Tmax (Maximum Temperature)**

- **Week 1 (17.08.2018 to 23.08.2018) and Week 2 (24.08.2018 to 30.08.2018):** Mostly normal to below normal Tmax except parts of northern India where it is likely to be above normal.

**Tmin (Minimum Temperature)**

- **Week 1 (17.08.2018 to 23.08.2018) and Week 2 (24.08.2018 to 30.08.2018):** Mostly normal to below normal Tmin except parts of northern India where it is likely to be above normal.

## Strategic Agricultural Planning based on rainfall during next two weeks till 30<sup>th</sup> August 2018

### Agromet Advisories

#### Tamil Nadu

Rainfall received during the period of 01 June to 16 August 2018 over Tamil Nadu is 147.3 mm, which is 1% deficit as compared to the normal. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) are below normal for both the weeks.

- Prevailing weather condition is favourable for sucking pest incidence in chilli. For controlling, spray Imidacloprid 17.8 % SL @ 3 ml/ 10 litre of water or Dimethoate 30 % EC @1.0 ml/litre.
- In the prevailing weather with very high cloud cover and moderate humidity, there is a chance for incidence of boll worm in cotton. For controlling this pest, spray Chlorantraniliprole 18.5% SC 150 ml/ha or Chlorpyrifos 20% EC 1250 ml/ha.
- Farmers are advised to monitor fall army worm in maize. The larvae scrapping the leaves, makes small to medium elongated pin holes and causes loss of top portion of leaves. If also feeds on tassel. If symptoms were noticed, spray any one of the following pesticide to control.
  - Thiodicarb 70 WP 2g/lit.
  - Flubendiamide 480 SC 3 ml/10 lit.

#### Kerala

Rainfall received during the period of 01 June to 16 August 2018 over Kerala is 2086.8 mm, which is 30% excess than normal. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) are above normal for week-1 and below normal for week-2.

- Due to continuous rain, there is a chance of bud rot disease in coconut palm. Small perforated sachets containing 2 g of mancozeb may be tied to the top crown portion and leaf axil.
- If infestation of pseudo stem weevil is noticed in Banana, spray 2.5 ml of chlorpyrifos or 2 ml of quinalphos per one litre of water in leaf axils and by inserting the nozzle through the boreholes made by the larvae.
- Due to continuous rain and water stagnation, there is a chance of Damping off in Vegetables. Rhizoctonia root rot are also noticed at times in vegetables. Drench the soil with 1.5g copper hydroxide or 2.5g copper oxychloride per one litre of water to control damping off and drench with 1g carbendazim per one litre of water to control Rhizoctonia root rot.

## **Karnataka**

Rainfall received during the period of 01 June to 16 August 2018 over different meteorological sub-divisions of Karnataka viz, North Interior Karnataka is 231.8 mm (23 % deficit), South Interior Karnataka is 490.9 mm (10% excess) and Coastal Karnataka is 2565.7 mm (4% excess). The extended range weather forecast provided from 17 to 23 and 24 to 30 August over North Interior Karnataka is above normal for week-1 and below normal for week-2, over South Interior Karnataka is below normal for both the weeks and coastal Karnataka is above normal for week-1 and below normal for week-2.

## **North Interior Karnataka**

- Plough the land across the slope which is to be spared for sowing of Rabi crops so as to facilitate better conservation of soil and soil moisture.
- Sowing of groundnut (spreading type), Redgram, Desi cotton, Onion, Castor, Bajra, Navane, cowpea and Horsegram as entire crop can be taken up as light to moderate rainfall has been received in most parts of North Interior Karnataka.
- Vaccinate (ET vaccine) sheep and goats against Enterotoxemia.

## **Maharashtra**

Rainfall received during 01 June to 16 August 2018 over different meteorological sub divisions of the state viz., Konkan: 2418.7 mm (8% excess), Madhya Maharashtra: 479.6 mm (2% deficit), Vidarbha: 588.1 mm (8% deficit) and Marathwada: 319.7 mm (23 % deficit). The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) are above normal over all the meteorological sub-divisions of Maharashtra for week-1 and below normal over Marathwada, Vidarbha, Madhya Maharashtra and normal for Konkan region for week-2.

## **Marathwada**

- To monitor incidence of pink boll worm in cotton, install 4 to 5 pheromone traps/ha and destroy the trapped male moth.
- Undertake intercultural operations (weeding/hoeing) for timely control of weeds in soybean, pigeonpea and blackgram.
- To reduce fruit drop in mandarin orange (Ambia bahar), spray of 1.5 g Gibberellic acid + 1 kg Urea + 100 gm Carbendazim 50% WP per 100 litres of water is advisable, spray may be repeated after 15 days.

## **Madhya Maharashtra**

- For controlling Thrips and Alternaria leaf spot on vegetables like onion, chilli etc, spray Chloropyriphos @ 20 ml + Mancozeb 25 gm + 5 ml stickers per 10 Litre of water.
- Due to cloudy weather and rainy climate the incidence of leaf eating caterpillar on kharif crops, vegetables and fruit crops can be checked by spraying of chloropyriphos/ quinolphos/ trizophos @ 15-

20 ml + 10 ml water + 5 ml sticker.

### **Vidarbha**

- To control attack of girdle beetle and leaf eating caterpillar in soybean crop, spray Chlorantraniliprole 18.5 % @ 4 ml per 10 litre of water.
- To control attack of stem borer in sorghum crop soil application of Carbofuran 3 % @ 8 kg per acre should be done.
- To control sucking pest in cotton crop take a spray of Fipronil 5 % @ 30 ml or Buprofezin 25 % @ 20 ml per 10 litre of water. To control pink bollworm in cotton crop, spray of Thiodicarb 75 % @ 20 gm per 10 litre of water.

### **Chhattisgarh**

Rainfall of 714.3mm received over Chhattisgarh during 01 June to 16 August 2018 which is 6% deficit as compared to normal . The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) are above normal for week-1 and below normal for week-2.

- Wherever, transplanting of rice is not yet completed, it is advised to complete the transplanting at the earliest with 4-5 seedlings per hill and 10% additional dose of fertilizer to compensate the adverse effect of delayed transplanting. This will reduce the production loss.
- In the low rainfall area, there is possibility of infestation of Cut worm in rice crop so keep vigilant watch in that area. If cut worm is observed in the field, spray Dichlorvas @ 1 ml / litre of water and apply 200 liter water in acre area.
- If leaf caterpillar is observed in soybean crop, apply Trizofas @ 2 ml/ acre or Flubendiamide @ 0.5 ml/litre of water and apply 200 litre water in one acre area.

### **West Bengal**

Amount of rainfall received over Gangetic West Bengal during 01 June to 16 August 2018 is 643.5mm which is 13% deficit as compared to normal . The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) are below normal for week-1 and above normal for week-2.

- Complete the harvesting operations in Jute. After shedding the leaves, it is advised to ret the jute in clean and slow moving water in order to obtain good quality fibre.
- The present weather conditions are favorable for occurrence of thrips and mite in chillies. To control spray dipheniuran@ 1.25 gm/litre of water is recommended.
- In this weather condition, combined attack of Downy mildew and Mosaic may be seen in Bitter gourd and Pointed gourd. Apply Ridomil Gold MZ (@2 gm per litre) to control the attack.

## **Bihar**

Amount of rainfall received over Bihar during 01 June to 16 August 2018 is 538.5mm which is 18% deficit as compared to normal . The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) are below normal for week-1 and above normal for week-2.

- Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. Before planting, application of 40-50 kg FYM per plant is advised for healthy growth.
- Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop.
- Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phenological stages of the crop are conducive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant.
- Regular monitoring of leaf eating caterpillar is advised in early sown cauliflower. If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.

## **Assam**

Rainfall received over Assam is 846.2 mm rainfall (33% deficit) during 01 June to 16 August 2018. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) is below normal for week-1 and normal for week-2.

- In order to control the infestation of citrus trunk borer, the holes made by the pest in the trunks should be spiked with wire to kill the grub followed by cleaning and plastering it with wet soil.
- During the monsoon season, to prevent the livestock from worm infestations, farmers are advised to give Mebendazole at recommended dose after proper consultation with veterinary doctor.
- In flood affected areas, if the water recedes in the field of Sali rice, then farmers may go for direct sowing of late Sali rice varieties such as Luit, Kapilee and Dishang in the main field up to mid August.

## **Punjab**

Rainfall received over Punjab is 298.9 mm rainfall (9% deficit) during 01 June to 16 August 2018. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) is normal for week-1 and below normal for week-2.

- Para wilt may occur in cotton due to rain, if incidence is there spray 1 gram cobalt chloride in 100 litres of water within 24 hours of attack.
- Apply irrigation to paddy/basmati crop, two days after the ponded water has infiltrated into the soil. Care should be taken that the field does not develop cracks. Apply third dose (1/3) 42 days after transplanting.



- To check the attack of maize borer, uproot the borer damaged plants and bury them at the time of thinning. It can, however, be sprayed with Coragen 18.5 SC @ 40 ml in 60-80 litres of water per acre against the maize borer, when attack is noticed.

### **Uttarakhand**

Uttarakhand has received 765.5 mm of rainfall during 01 June to 16 August 2018, which is 7% deficit. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) is below normal for week-1 and normal for week-2.

- Keeping in view of rainfall, farmers are advised for lifting the creepers of cucurbits above the ground on a trellis to avoid rotting.
- In mid to higher altitude, prepare the fields for sowing of vegetable pea and Toria. Use FYM/ Vermicompost during last ploughing. Procure good quality seeds from reliable source. Seed treatment from bioagent/fungicide should be applied before sowing.

### **Haryana**

Haryana has received 248.2 mm of rainfall during 01 June to 16 August 2018, which is 18% deficit. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) is above normal for week-1 and normal for week-2.

- Due to favourable weather condition, there can be chances for infestation of *Jassid* in cotton crop, farmers are advised to keep on vigilance. Due to chances of rainfall, farmers are also advised to drain out the excess amount of water from cotton fields.
- Farmers are advised to do weed management and intercultural operation to conserve soil moisture in Bajra/Guar.
- Infestation of sucking insect-pest in fruits and vegetables can be observed due to prevailing high humidity in the atmosphere. Farmers are advised to keep management to avoid excess rain water from vegetables crops.

### **Himachal Pradesh**

Himachal Pradesh has received normal rainfall of 565.4 mm during 01 June to 16 August 2018. The extended range weather forecast provided for next two weeks (17 to 23 and 24 to 30 August) is normal for week-1 and below normal for week-2.

- Farmers who has established new orchards are advised to dig the pits, 1m X 1m X 1m and fill with well decomposed FYM. For prevention against termite and white grubs, the pits should be treated with 5ml of chloropyrifos 20 EC per litre water.
- Farmers are advised to mend bunds for conserving rain water in rice fields. Bund should be higher and wider so that more rain water can be conserved.

## **Jammu**

Rainfall received during 01 June to 16 August 2018 over Jammu is 429.3 mm, which is 18% excess. The extended range weather forecast provided for next two weeks (17 to 23 and 24 June to 30 August) over Jammu is normal for week-1 and below normal for week-2.

- Due to the chances of rainfall farmers are advised to make arrangement to drain out excess water from the Maize fields. Farmers may apply fertilizer as well as chemical plant protection measures after receipt of rain.
- Protect the vegetable crops like Ladyfinger, Brinjal and Chilies from water logging. Keep the field weed free.

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