



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

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**Issued by**

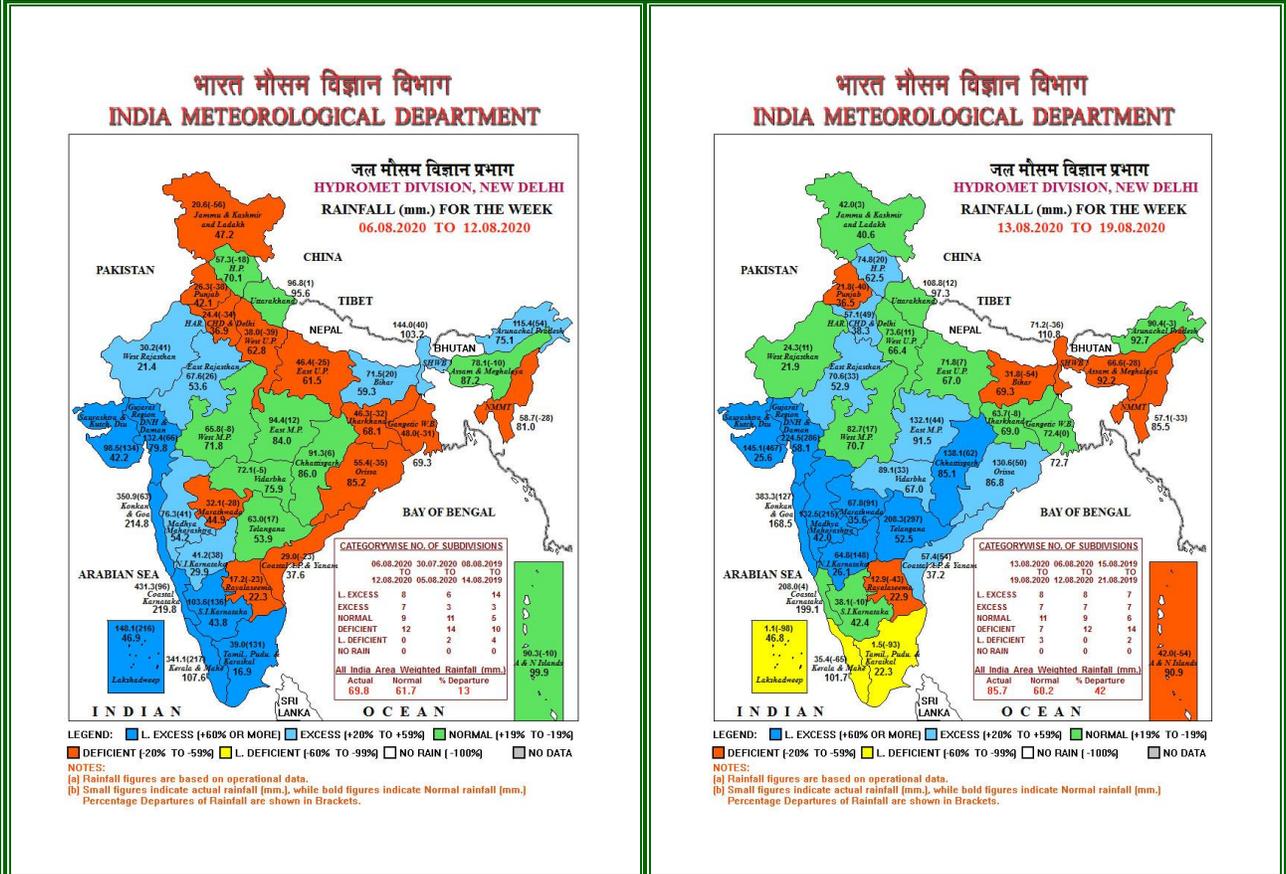
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

**India Meteorological Department (IMD),  
Earth System Science Organization**

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

## Realized Rainfall (6<sup>th</sup> to 19<sup>th</sup> August, 2020)

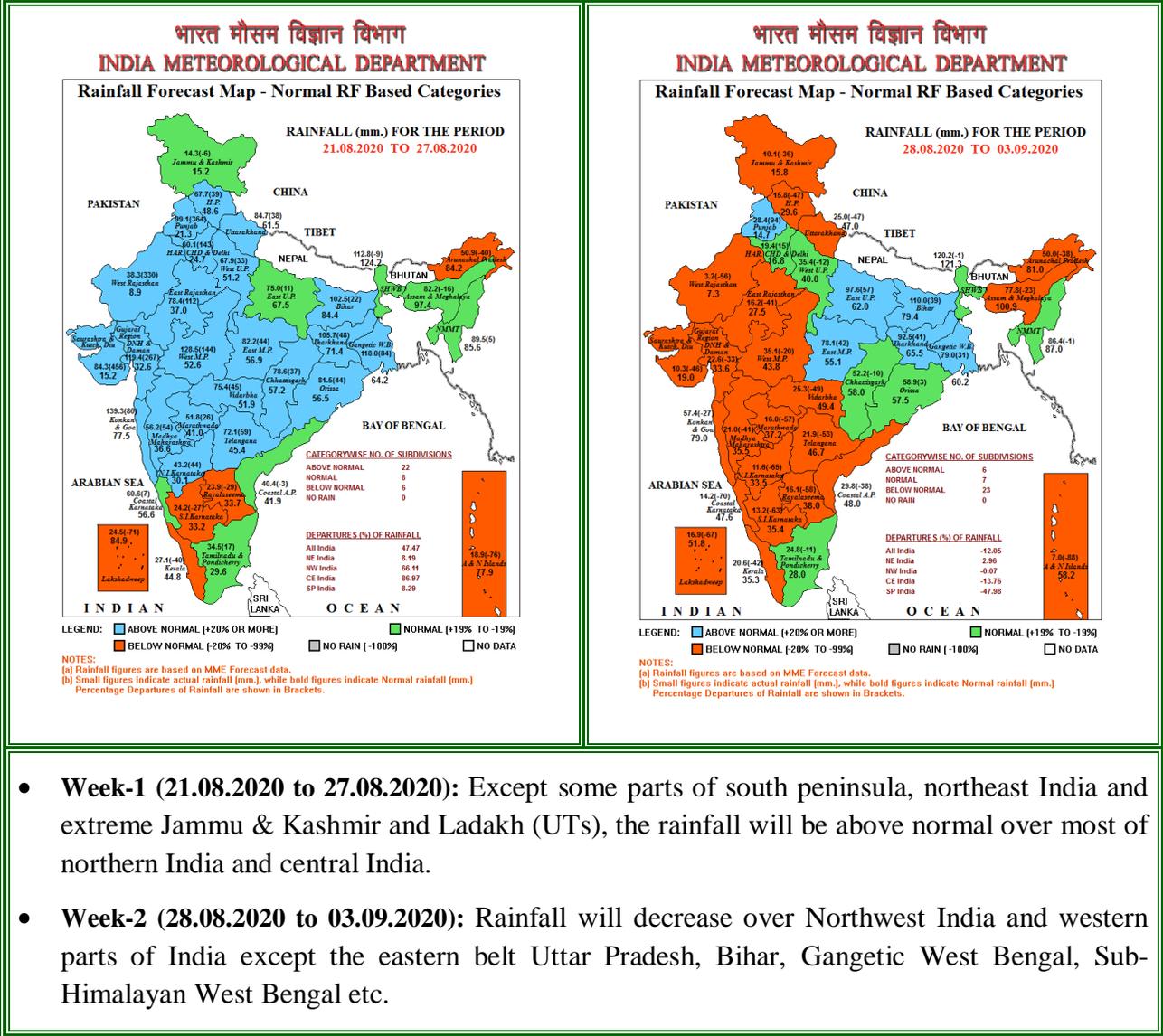


- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Himachal Pradesh, Rajasthan, Arunachal Pradesh, Gujarat, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Telangana and Karnataka.
- Normal or above normal rainfall occurred in either of the weeks in Jammu & Kashmir and Ladakh (UTs), Haryana Chandigarh & Delhi, Uttar Pradesh, Marathwada, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal, Andaman & Nicobar Islands and Lakshadweep.
- Below Normal rainfall occurred in both the weeks in Punjab, Rayalaseema and Nagaland, Manipur, Mizoram & Tripura (NMMT).

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC –19 August)

(21<sup>st</sup> August to 3<sup>rd</sup> September, 2020)



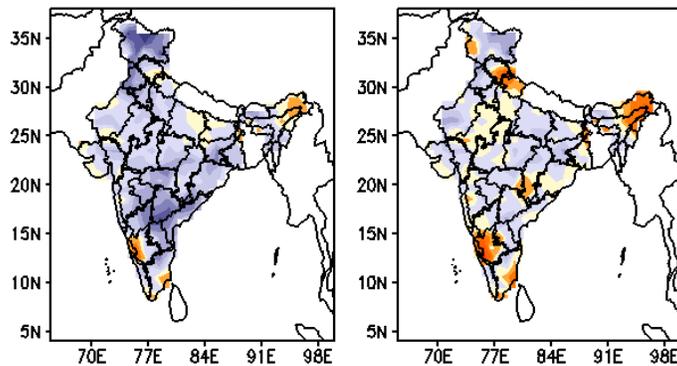
- **Week-1 (21.08.2020 to 27.08.2020):** Except some parts of south peninsula, northeast India and extreme Jammu & Kashmir and Ladakh (UTs), the rainfall will be above normal over most of northern India and central India.
- **Week-2 (28.08.2020 to 03.09.2020):** Rainfall will decrease over Northwest India and western parts of India except the eastern belt Uttar Pradesh, Bihar, Gangetic West Bengal, Sub-Himalayan West Bengal etc.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 19 August)  
(21<sup>st</sup> August to 3<sup>rd</sup> September, 2020)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 21Aug–27Aug)

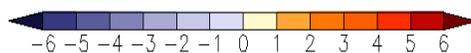
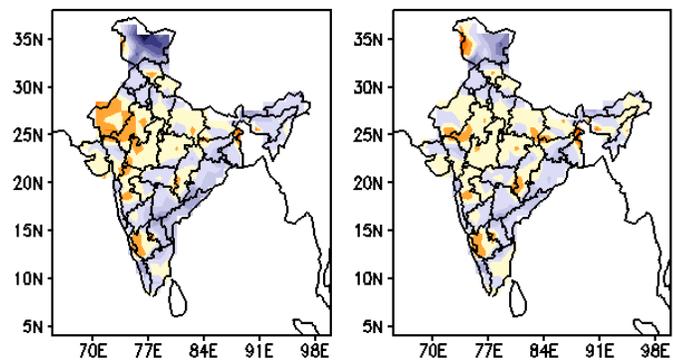
(Week2: 28Aug–03Sep)



**MME forecast Tmin anomaly (Deg C)**

(Week1: 21Aug–27Aug)

(Week2: 28Aug–03Sep)



**Maximum Temperature (Tmax)**

- **Week-1 (21.08.2020 to 27.08.2020):** Mostly Tmax will be below normal over India.
- **Week-2 (28.08.2020 to 03.09.2020):** Tmax will slightly increase from week 1 and become close to normal with some isolated pockets having higher Tmax and positive anomaly over southern peninsula and northeast India.

**Minimum Temperature (Tmin)**

- **Week-1 (21.08.2020 to 27.08.2020) and Week-2 (28.08.2020 to 03.09.2020):** Tmin will be slightly above normal over parts of northern India and adjoining central India.

## Strategic Agricultural Planning based on rainfall during next two weeks till 03 September 2020

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 1607.9 mm (-4% deficit) during the period of 01 June 2020 - 20 August 2020. The extended range weather forecast for next two weeks (21 - 27 August and 28 August - 03 September 2020) is below normal for week-1 and week-2.

- Due to rainy weather condition, there is a chance of soft rot disease in ginger, To control, it is advised to apply mixture of 20g Pseudomonas in one litre of water or apply a mixture of 25 g bleaching powder and 250 g lime in to the basin.
- Due to continuous rain, there is a chance of foot rot disease in pepper. As a precaution, it is advised to drench with 03 gram Copper Oxy Chloride (COC) per one litre of water into the basin of each plant.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 257.9 mm (40% excess) during the period 01 June 2020 - 20 August 2020. The extended range weather forecast for next two weeks (21 - 27 August and 28 August - 03 September 2020) is normal for week-1 and week-2.

- Present weather condition is favorable for fruit borer incidence in cotton. It is advised to spray of Carbaryl 50 WP 2.5 kg/ha or Azadirachtin 0.03% EC 500 ml/ha .
- Prevailing weather condition is also congenial for mosaic incidence in gourds. It is advised to spray Monocrotophos @ 1.5 ml/litre or Chlorpyrifos 2.5 ml + Neem oil 2 ml/litre of water.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 705.1 mm (31% excess), Marathwada is 588.5 mm (36% excess), Vidharbha is 630.0 mm (-8% deficit) and Konkan region 2859.0 mm (23% excess) during 01 June 2020 - 20 August 2020. The extended range weather forecast for next two weeks (21 - 27 August and 28 August - 03 September 2020) over Vidharbha, Konkan, Madhya Maharashtra and Marathwada is above normal for week-1 and below normal for week-2

#### Madhya Maharashtra

- For control of American army worm attack in crops, it is advised to use pheromone trap @ 5/ha or apply 50,000 eggs of *Trichogram pritiolum* or *Telenomus remus* parasite per acre three times in one-week interval.
- Under prevailing weather condition, there is a chance of aphid attack in green gram and black gram. If incidence noticed, spray Imidacloprid @ 4 ml/10 litres of water.

#### Konkan

- Due to cloudy and humid weather condition, there is possibility for incidence of koleroga disease in arecanut orchard. To prevent, spray of 1 % bordo mixture mixing with sticker on to crown region during clear weather is advised.
- Under prevailing weather condition, there is a chance of incidence of red pumpkin beetle cucurbitaceous crops. If incidence is noticed, spray Dimethoate 30% EC @ 15 ml per 10 litres

of water during clear weather.

#### *Marathwada*

- Due to cloudy weather condition, there is a chance of shoot and fruit borer in vegetable crops. For management, it is advised to spray 5 % NSKE during clear weather condition.
- Due to cloudy and humid weather condition, there is a chance of infestation of sucking pest in cotton crop. For management, it is advised to spray 5 % NSKE or Thiamethoxam 25 % @ 40 g/acre during clear weather condition.

#### *Vidharbha*

- For control of powdery mildew in green gram/black gram, it is advised to spray Dinocap 10 ml or wettable sulphur @ 30 g/10 litres of water during clear weather.
- Under prevailing weather condition, there is a chance of pink boll worm larvae in cotton crop flowers. To control, it is advised to spray Quinolphos 25% AF @ 25 ml or Chlorpyrifos 20% EC @ 25 ml/10 litres of water. It is also advised to collect and destroy rosette flowers/buds.

#### **Hisar**

Amount of rainfall received over Hisar is 328.7 mm (4% excess) during 01 June 2020 - 20 August 2020. The extended range rainfall forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) over Hisar is above normal for week-1 and normal for week-2.

- Under prevailing weather conditions, farmers are advised to withhold irrigation in vegetables and fruits crops.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crops.

#### **Karnataka**

Rainfall received during 01 June 2020 - 20 August 2020 over South Interior Karnataka is 562.6 mm (16% excess) and North Interior Karnataka is 480.8 mm (54% excess). The extended range weather forecast for next two weeks (21 - 27 August and 28 August - 03 September 2020) over South Interior Karnataka is below normal and North Interior Karnataka is above normal for week-1 and below normal over South Interior Karnataka and North Interior Karnataka for week-2.

#### *South Interior Karnataka*

- Farmers are advised for earthing up in long duration crops like redgram, maize and castor for better soil moisture conservation.
- Under prevailing weather condition, there is a chance of wilt disease in redgram. It is advised for drenching with Carbendazim 50 WP @ 2 g/litre of water. Remove and burn the infected plants in the field itself.
- Due to high wind speed, it is advised to provide staking support to banana and vegetable crops to protect from uprooting.

#### *North Interior Karnataka*

- Under prevailing rainy weather condition, sowing of *kharif* crops like bajra, redgram, groundnut

(spreading type), navane, and horsegram is recommended.

- Farmers are also advised to sow the crops in rows across the slope to facilitate better soil moisture conservation.
- Farmers are advised to vaccinate livestock against foot and mouth disease (FMD vaccination), black quarter disease (BC vaccination) and *haemorrhagic septicaemia*.

### **Assam**

Amount of rainfall received over Assam is 1511.4 mm (15% excess) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Assam is normal for week-1 and below normal for week-2.

- Due to favorable weather condition, there is a chance of infestation of case worm in Sali rice. To control, it is advised to spray Quinalphos 25EC @ 1ml/litre of water during rain free weather.
- It is also favourable time for sowing of sesamum seeds with recommended varieties viz., Madhavi, Gouri and Vinayak.

### **Uttar Pradesh**

Rainfall received during 01 June 2020 - 20 August 2020 over East Uttar Pradesh is 617.1 mm (9% excess) and West Uttar Pradesh is 389.6 mm (-21% deficit). The extended range weather forecast for next two weeks (21 - 27 August and 28 August - 03 September 2020) over East Uttar Pradesh is normal and West Uttar Pradesh is above normal for week-1 and above normal over East Uttar Pradesh and normal over West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Under prevailing weather condition, there is a chance of khaira disease in late sown paddy. To manage, it is advised to spray Zinc sulphate @ 5.0kg/ha with 2.0% Urea solution.
- Due to the chances of heavy rainfall, farmers are advised to prepare broad and elevated bunds to conserve rain water in the paddy fields.
- Farmers are advised for sowing of green gram with varieties Pant Moong-3, 4, Samrat, Asha, HUM-16, MH-2-3, KM-2241, IPM-2-3, KM-2195 and IPM-205-7.

#### *Eastern Uttar Pradesh*

- There is a chance of downy mildew in cucurbits and other vegetables. To prevent, spray of Mancozeb @ 2 g/litre is advised.
- For the fish seed production, it is advised to disinfect hatchery by using Potassium permanganate @ 5 mg/litre of water.

### **Odisha**

Amount of rainfall received over Odisha is 795.9 mm (-2% deficit) during 01 June 2020 - 20 August 2020. The extended range rainfall forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) over Odisha is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, there is a chance of top shoot borer infestation in sugarcane

crop. To manage, it is advised to spray Fipronil 5 % SC @ 600ml/acre or Profenophos 50% EC @ 400ml/acre or Chlorantraniliprole 18.5% SC @ 80 ml/acre by mixing it in 200 litre of water.

- Prevailing weather condition is congenial for sucking pest in okra. To manage, spray of Azadirachtin 1500 ppm @ 600 ml/acre by mixing it in 200 litres of water is advised.

### **West Bengal**

Amount of rainfall received over West Bengal is 760.8 mm (-5% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised for proper arrangement for drainage in vegetable and pulse fields and also in nurseries.
- For the management of fruit fly and hopper in brinjal, farmers are advised to apply Monocrotophos or Fosalone @ 1.5 ml/litre of water.

### **Jammu**

Amount of rainfall received over Jammu is 222.4 mm (-45% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Jammu is normal for week-1 and below normal for week-2.

- For the management of shoot and fruit borer in brinjal crop, it is advised to install Pheromone trap @ 20/acre.
- Under prevailing weather condition, farmers are advised do not allow water to stagnate in *khariif* pulse fields and manually rogue out yellow leaf plants (mosaic affected) at initial stage of attack.

### **Rajasthan**

Amount of rainfall received over East Rajasthan is 379.1 mm (-14% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over East Rajasthan is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of fall army worm in maize. To control, farmers are advised for foliar spray of Emamectin benzoate 5 SG @ 0.4 g/litre of water.
- For the management of bacterial blight in soybean, spray of Copper oxychloride @ 40g/15 litres water + Streptocycline @ 6g/15 litres water is advised.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 425.3 mm (-25% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, it is advised to resume picking in tea at 8-10 days interval to maintain the quality and productivity.

- Under prevailing weather condition, it is advised to use mulches for conservation of moisture in the soil especially under rainfed areas.
- In mid-hill region, nursery sowing of Chinese cabbage and direct sowing of raddish, carrot and broccoli is advised.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 783.4 mm (-9% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Uttarakhand is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, it is advised to sow short duration vegetable pea with varieties Arkil and Super Arkil.
- For the control of insect infestation in crop fields, it is advised to use Pheromone/light traps or yellow strips.

### **Punjab**

Amount of rainfall received over Punjab is 313.0 mm (-9% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Punjab is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of stem borer in rice. To control, it is advised to spray Fame 480 SC (Flubendiamide) @ 20 ml or Mortar 75 SG (Cartap hydrochloride) @ 170 g in 100 litres of water per acre.
- To manage fall army worm in maize crop, it is advised to spray Coragen 18.5 SC @ 0.4 ml/litre of water or Delegate 11.7 SC (Spinetoram) @ 0.5ml/ litre of water or Missile 5SG (Emamectin benzoate).

### **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 695.3 mm (-5% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised to prepare proper drainage facilities in the pulses, oilseeds and vegetables fields.
- To protect dairy, poultry and goat animals from seasonal diseases proper immunization is advised.

### **Gujarat**

Amount of rainfall received over Gujarat is 664.6 mm (-3% deficit) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Gujarat is above normal for week-1 and below normal for week-2.

- Monitoring is advised for the infestation of pink boll worm in cotton crop. If infestation occurs, it is advised to install Pheromone traps @ 6-8 per ha in early sown crop or spray Profenofos 50 EC 20 ml or Cypermethrin 10 ml in 10 litres water.
- Under prevailing weather condition, there is a chance of sucking pest in castor. To control, it is advised to apply Monocrotophos 0.05% @ 15 ml or Dimethoate 0.03% @ 15 ml/10 litres of water at 15 days interval.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 860.6 mm (5% excess) during 01 June 2020 - 20 August 2020. The extended range weather forecast provided for next two weeks (21 - 27 August and 28 August - 03 September 2020) on rainfall over Chhattisgarh is above normal for week-1 and normal for week-2.

- For the control of white fly in oilseed and pulses crops, it is advised to spray Metasystox @ 3 ml per litre of water or Nuvan @ 1 ml per litre of water.
- Under prevailing weather condition, farmers are advised for nursery preparation of cauliflower, cabbage and capsicum and start transplantation of *kharif* onion in the main field.

### **Disclaimer:**

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