



## National Agromet Advisory Service Bulletin

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 27 August - 09 September 2021**

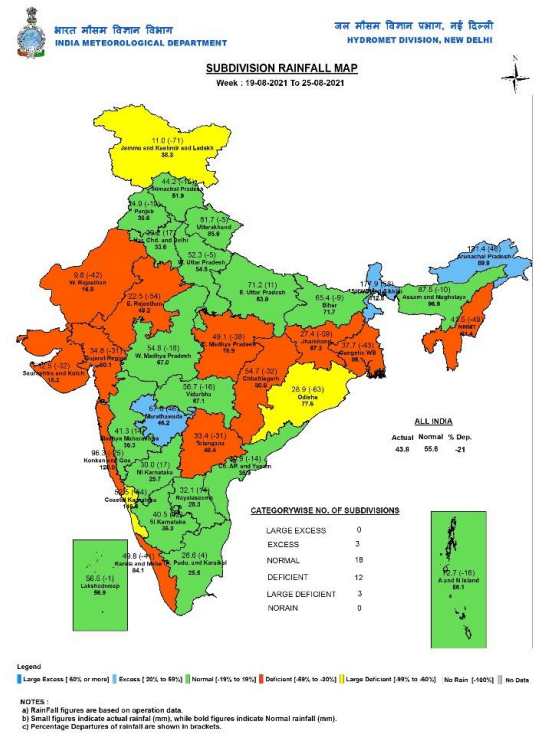
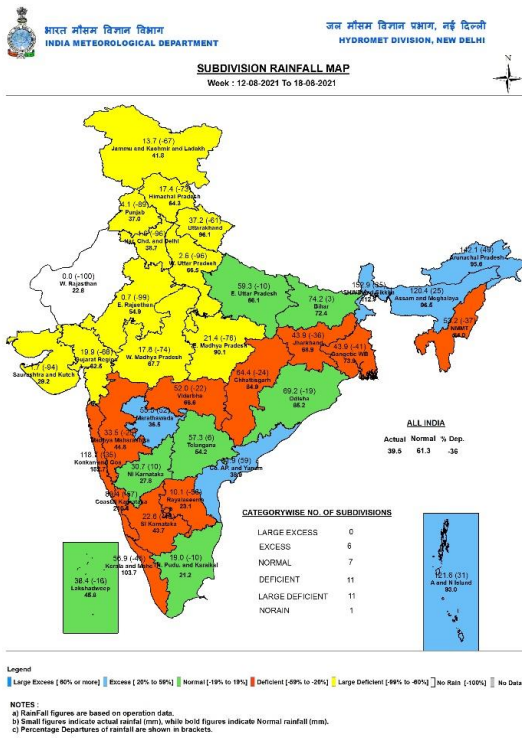
**Date of issue: 27 August 2021**

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 (12<sup>th</sup> to 25<sup>th</sup> August, 2021)



- Normal or above normal rainfall occurred in both the weeks in East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Bihar, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi Odisha, West Madhya Pradesh, Madhya Maharashtra, Vidarbha, Telangana, South Interior Karnataka and Rayalaseema.
- Below Normal rainfall/no rain occurred in both the weeks/either of the two weeks over Jammu & Kashmir and Ladakh (UTs), East Rajasthan, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Nagaland Manipur Mizoram & Tripura (NMMT), Kerala & Mahe and Coastal Karnataka.

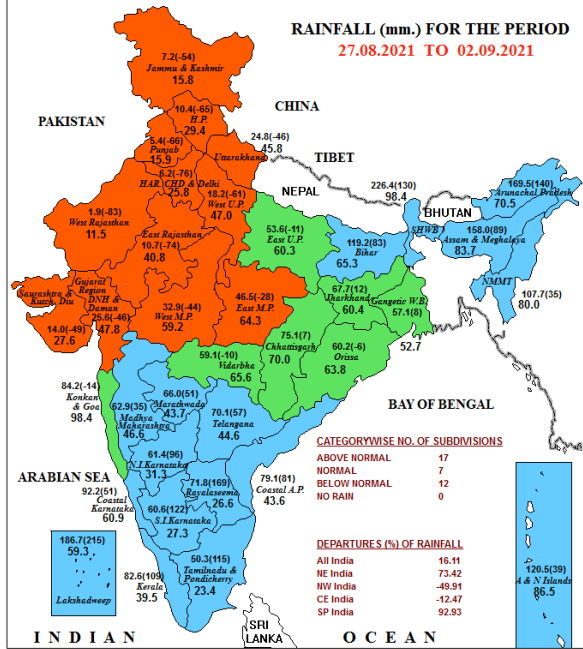
## Extended Range Forecast System

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

(27<sup>th</sup> Aug. to 9<sup>th</sup> Sep., 2021)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

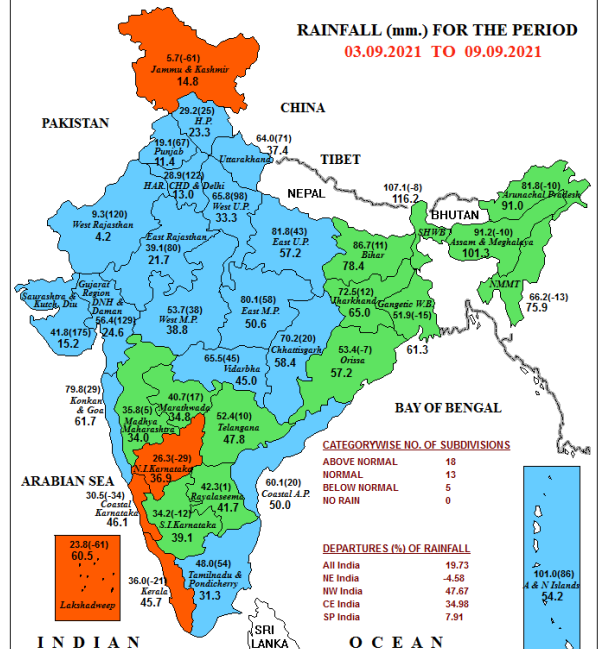


**LEGEND:** ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

**NOTES:**  
 (a) Rainfall figures are based on MME Forecast 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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Rainfall Forecast Map - Normal RF Based Categories

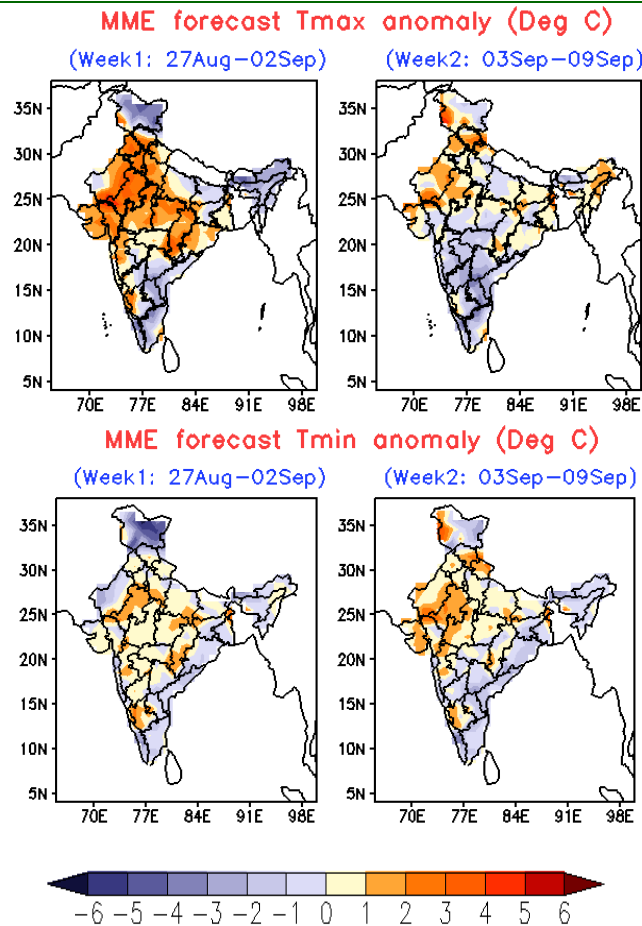


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**NOTES:**  
 (a) Rainfall figures are based on MME Forecast data.  
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

- **Week 1 (27.08.2021 to 02.09.2021):** Positive anomaly likely over some parts of south peninsula and adjoining central India and also over the Indo-Gangetic (Northern part of east Uttar Pradesh, North Bihar) & adjoining north eastern India. However, Northwest India will have below normal rainfall.
- **Week 2 (03.09.2021 to 09.09.2021):** Likely increase of rainfall over parts of north and western India. However, the northeast and south peninsula will have below normal rainfall.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 25 August)  
(27<sup>th</sup> Aug. to 9<sup>th</sup> Sep., 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (27.08.2021 to 02.09.2021) and Week 2 (03.09.2021 to 09.09.2021):** Mainly above normal Tmax likely in week 1 and week 2 over Northwest India. Above normal Tmax is also likely over the eastern parts of India (Odisha, Chhattisgarh, Madhya Pradesh, Gujarat, Rajasthan, Delhi, Punjab, Haryana and adjoining region) in week 1. Below normal Tmax likely over southern peninsula and some parts of Northeast India in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (27.08.2021 to 02.09.2021) and Week 2 (03.09.2021 to 09.09.2021):** Slight positive Tmin anomaly likely over northwest and adjoining parts north and central India in week 1 and week 2.

## **Strategic Agricultural Planning based on rainfall during next two weeks till 09 September 2021**

### **Agro-met Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 1253 mm (-28% deficit) during 01 June - 26 August 2021. The extended range weather forecast (rainfall) for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) is above normal for week-1 and below normal for week-2.

- During humid seasons, leaf spot disease is common in bhindi. To manage, it is advised to spray Carbendazim @ 1ml per litre or Propiconazole @ 1ml per litre immediately after appearance of the disease.
- Prevailing weather condition is congenial for leaf blotch disease in turmeric. To control it, spray Contaf @ 2 ml in one litre of water.

#### **Tamil Nadu**

Amount of rainfall received over Tamil Nadu is 255.6 mm (27% excess) during 01 June - 26 August 2021. The extended range weather forecast (rainfall) for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) is above normal for both week-1 and week-2.

- Prevailing weather condition is favourable for hairy caterpillar and collar rot in moringa. It is advised to collect and destroy diseased parts of the plant and spray Mancozeb @ 2g/litre of water, after the rainfall spell.
- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using casuarina poles.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 601 mm (6% excess); Marathwada is 553 mm (17% excess); Vidarbha is 638 mm (-14% deficit) and Konkan region is 2743 mm (13% excess) during 01 June - 26 August 2021. The extended range weather forecast (rainfall) for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Konkan and Vidharbha is normal, above normal over Marathwada and Madhya Maharashtra for week-1; above normal over Konkan and Vidharbha, normal over Madhya Maharashtra and Marathwada for week-2.

#### *Marathwada*

- Due to cloudy weather condition sucking pest may observed in soybean crop. For management, it is advised to spray Thiamethoxam 12.6% + Lambda Cyhalothrin 9.50% ZC @ 2.5 ml per 7 litres of water during clear weather condition.
- Prevailing weather condition is also congenial for bacterial disease in Pomegranate. For management, it is advised to spray of Bordo mixture @ 0.5% during clear weather condition.

### *Vidharbha*

- Due to the chances of heavy rainfall, farmers are advised to drain out excess water in the event of waterlogging in standing crop/vegetable fields and orchards.
- To minimize fruit dropping of mandarin orange (Ambia bahar), it is advised to spray Gibberellic acid @ 1.5 g + Urea @ 1 kg + Carbendazim 50% WP @ 100 g per 100 litres of water during clear weather.

### *Konkan*

- Due to intermittent rainfall and humid weather condition, there is possibility of incidence of army worm in upland rice field. If incidence noticed, dust the Chlorpyrifos 1.5% DP powder.
- Under prevailing weather condition, there is also possibility for incidence of shoot borer, leaf eating caterpillar in newly planted mango orchard, if incidence noticed, it is advised to spray Monocrotophos 36% SL @ 11 ml per 10 litres of water during clear weather condition.

### *Madhya Maharashtra*

- For the management of leaf eating caterpillar in Mango, farmers are advised to spray Chlorpyrifos + Cypermethrin @ 2 ml per litres of water during clear weather condition.

### **Hisar**

Amount of rainfall received over Hisar is 390 mm (13% excess) during 01 June - 26 August 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Hisar is below normal for week-1 and above normal for week-2.

- Prevailing high humidity is congenial for infestation of sucking pest in cotton. To manage, farmers are advised to spray Nimbecidine @ 1 liter mixed with 250 litres water per acre during clear weather condition.
- Due to humid weather conditions, farmers are advised to keep animals under well ventilated place and provide plenty of clean drinking water and green forage as per requirement.

### **Karnataka**

Rainfall received during 01 June 2021 - 26 August 2021 over South Interior Karnataka is 549 mm (7% excess) and North Interior Karnataka is 432 mm (29% excess). The extended range weather forecast (rainfall) for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and normal over South Interior Karnataka and below normal over North Interior Karnataka for week-2.

#### *North Interior Karnataka*

- Under prevailing weather condition, farmers are advised to prepare soil and water conservation

structures in the lands spared for *rabi* sowing.

- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

#### *South Interior Karnataka*

- Due to high wind speed, it is advised to postpone the spraying operation in crop and horticultural crops. It is also advised to provide staking support for banana and vegetable crops to prevent from uprooting.
- Earthing up is advised in long duration crops like pigeonpea and castor crops, for better availability of soil moisture.

#### **Uttar Pradesh**

Rainfall received during 01 June 2021 - 26 August 2021 over East Uttar Pradesh is 648 mm (5% excess) and West Uttar Pradesh is 427 mm (-22% deficit). The extended range weather forecast (rainfall) for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over East Uttar Pradesh is normal and West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Keeping in view of light to medium rainfall, farmers are advised to conserve rain water in the paddy fields by making broad and elevated bunds during week-2.
- For the management of *khaira* disease in late planted paddy, it is advised to spray 5.0 kg Zinc sulphate/ha with 2.0% Urea solution.

#### **Jammu**

Amount of rainfall received over Jammu is 312 mm (-29% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Jammu is below normal for week-1 and week-2.

- For the management of stem borer in maize, it is advised to apply Cartap hydrochloride/Carbofuran granules @ 5 g/plant.
- Under prevailing weather condition, farmers may go for land preparation for nursery raising of *rabi* crops under protected structures, where irrigation is available.

#### **West Bengal**

Amount of rainfall received over West Bengal is 995 mm (16% excess) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over West Bengal is normal for week-1 and for week-2.

- Under prevailing weather condition, constant monitoring for brown plant hopper in paddy field

is advised. If insect population is above ETL spray of Imidacloprid 17.8 % SL @ 1.0 ml /3 litres of water is recommended.

- For the management of fruit borer in vegetable crops, it is advised to use specific pheromone trap @ 5-6 trap per bigha.

### **Odisha**

Amount of rainfall received over Odisha is 598 mm (-31% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Odisha is normal for week-1 and week-2.

- Prevailing weather condition is congenial for sucking pest in okra. To manage, it is advised to spray Neem Oil 1500 ppm @ 600 ml/acre by mixing it in 200 litres of water.
- For the management of panama wilt disease in banana, it is advised to select disease free planting material and resistant cultivars like Bantal, Robusta, Champa, Kabuli *etc.*

### **Assam**

Amount of rainfall received over Assam is 1070 mm (-16% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Assam is above normal for week-1 and normal for week-2.

- Due to favourable weather condition, attack of stem borer and case worm may be observed in rice. For effective control, it is advised to spray Fipronil 5 SC @ 2.5ml/litre water under clear weather conditions.
- To prevent lodging in sugarcane crops during rainy season, it is advised to provide mechanical support to the canes by using bamboo sticks or by tying up the leaves of 4-5 canes together.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 757 mm (-14% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Chhattisgarh is normal for week-1 and above normal for week-2.

- For management of defoliators and white fly in soybean, it is advised to spray per-mixed insecticides like Beta Cyfluthrin + Imidacloprid @ 350 ml/ha or Thimethoxam + Lambda Cyhalothrin @ 125 ml/ha.

### **Gujarat**

Amount of rainfall received over Gujarat is 393 mm (-46% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Gujarat is below normal for week-1 and above



normal for week-2.

- For the management of leaf spot infestation in groundnut, it is advised to spray Chlorothalonil 75 WP @ 27 g or Tebuconazole @ 10 ml/10 litres of water.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 430 mm (8% excess) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Andhra Pradesh is above normal for week-1 and normal for week-2.

- The prevailing weather condition in Chittoor, Srikakulam, Vizianagaram, Visakhapatnam districts is favourable for incidence of early shoot borer in sugarcane. To control, farmers are advised to provide frequent irrigation at regular intervals and spray Endosulfan @ 2.0 ml/litre of water under clear weather conditions.
- Current weather condition is congenial for leaf miner disease in groundnut. For effective control, it is advised to spray Chlorpyrifos @ 2.5 ml/litre or Quinalphos @ 2 ml/litre of water, under clear weather conditions.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 487 mm (-20% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Himachal Pradesh is below normal for week-1 and above normal for week-2.

- For the management of the attack of stem borer in rice crop, it is advised to spray Coragen 18.5 SC @ 60 ml in 100 litres of water per acre.
- Farmers are advised to make bunds for conserving rain water in the lowland rice fields.

### **Bihar**

Amount of rainfall received over Bihar is 883 mm (16% excess) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Bihar is above normal for week-1 and normal for week-2.

- Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation observed, application of Cartap hydrochloride 4G @ 10kg/acre is advised.
- Under prevailing weather condition, planting of pointed guard is advised in North Bihar. Recommended varieties are Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarn Rekha, Swarna Alaukik, IIVR-1, 2, 105.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 740 mm (-5% deficit) during 01 June 2021 - 26 August

2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Jharkhand is normal for week-1 and week-2.

- Under prevailing weather condition, sowing of early potato is advised. Recommended early varieties are *Kufri Ashoka*, *Kufri Chandramukhi*, and *Kufri Pukhraj*.
- Monitoring of fruit borer in maize crop is advised. For management, spray of neem-based insecticide on upper part of the plant @ 2-3 ml per liter of water is advised.

### **Rajasthan**

Amount of rainfall received over East Rajasthan is 477 mm (-1% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over East Rajasthan is below normal for week-1 and above normal for week-2.

- To prevent viral diseases in soybean, spraying of Imidacloprid 17.8 % SC @ 1.0 ml / 3 litres of water is recommended.
- For the management of fall army worm in maize crop, foliar spray of Emamectin Benzoate 5 SG @ 0.4 g/litre of water is advised.

### **Punjab**

Amount of rainfall received over Punjab is 288 mm (-22% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Punjab is below normal for week-1 and above normal for week-2.

- Prevailing weather is favorable for fruit rot and die back disease in chilli. To protect, it is advised to spray 250 ml Folicur or 750 g Indofil M 45 or Blitox in 250 litres of water per acre is advised.
- It is the optimum time for sowing of mid-season varieties of cauliflower. Recommended varieties are *Punjab Broccoli-1* and *Palam Samridhi*.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 871 mm (-6% deficit) during 01 June 2021 - 26 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (27 August - 02 September 2021 and 03-09 September 2021) over Uttarakhand is below normal for week-1 and above normal for week-2.

- Maintain proper drainage channels in crop fields to avoid stagnation of water.
- Farmers are advised to go for the raising of early nursery of cauliflower in the playhouses/polytunnels.

***Disclaimer:***

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