



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity: 03 - 16 September 2021**

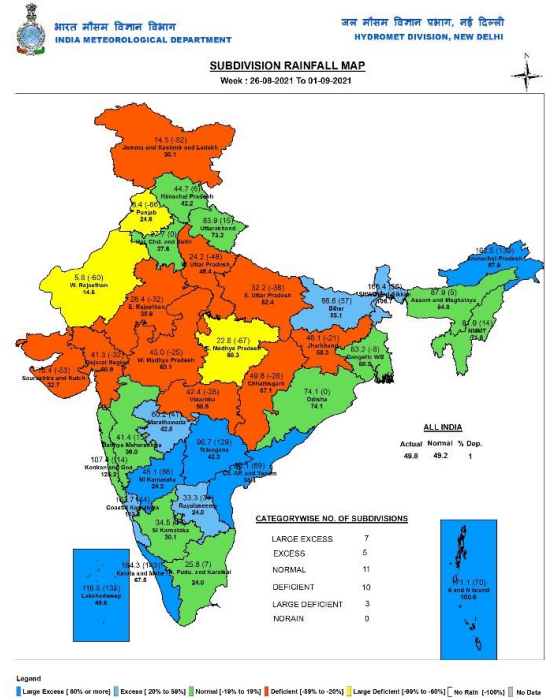
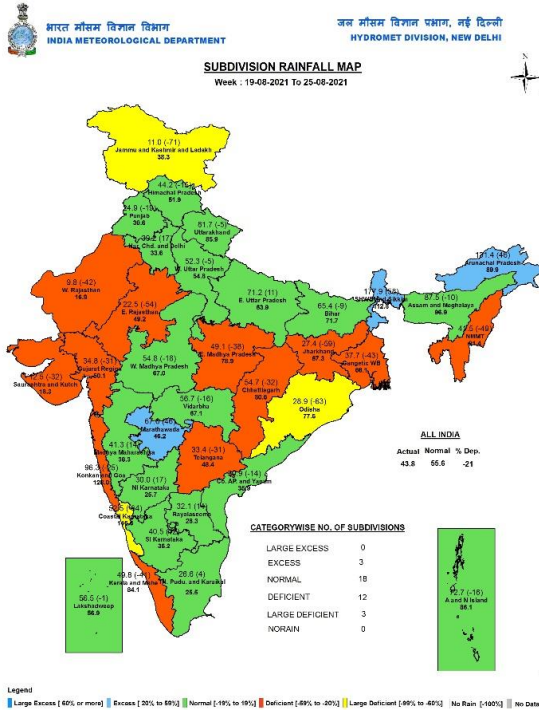
**Date of issue: 03 September 2021**

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)

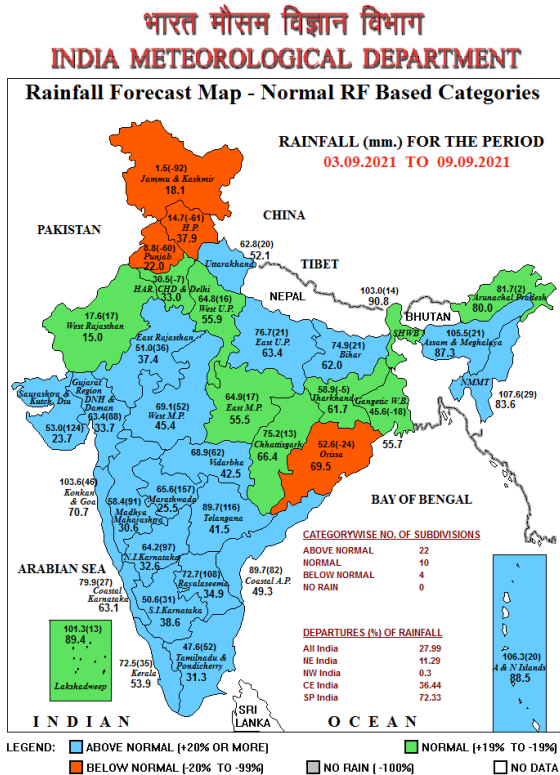
## Realized Rainfall (19<sup>th</sup> August to 1<sup>st</sup> Sept., 2021)



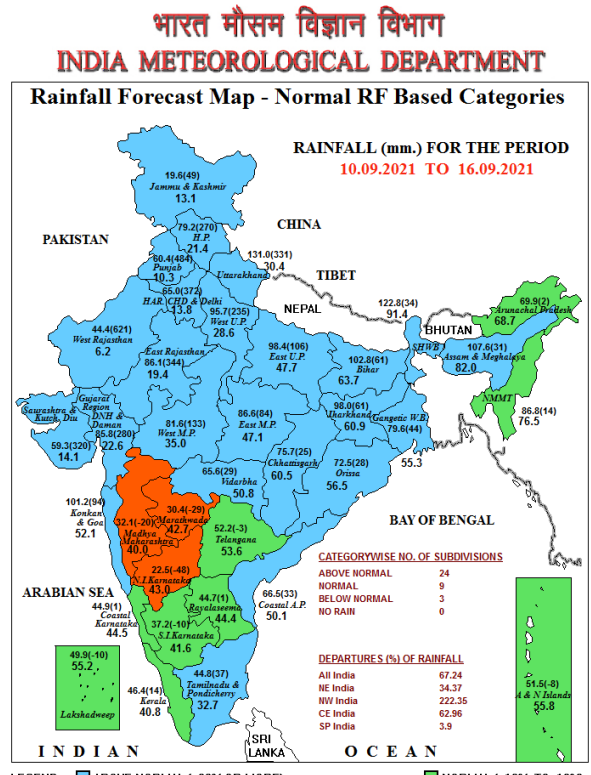
- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Himachal Pradesh, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Bihar, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, 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 East Uttar Pradesh, West Uttar Pradesh, Punjab, Gangetic West Bengal, Odisha, Nagaland Manipur Mizoram & Tripura (NMMT), West Madhya Pradesh, Konkan & Goa, Vidarbha, Telangana, Coastal Karnataka and Kerala & Mahe.
- Below Normal rainfall 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, Gujarat Region and Saurashtra & Kutch.

# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 01 Sept.) (3<sup>rd</sup> to 16<sup>th</sup> Sep., 2021)



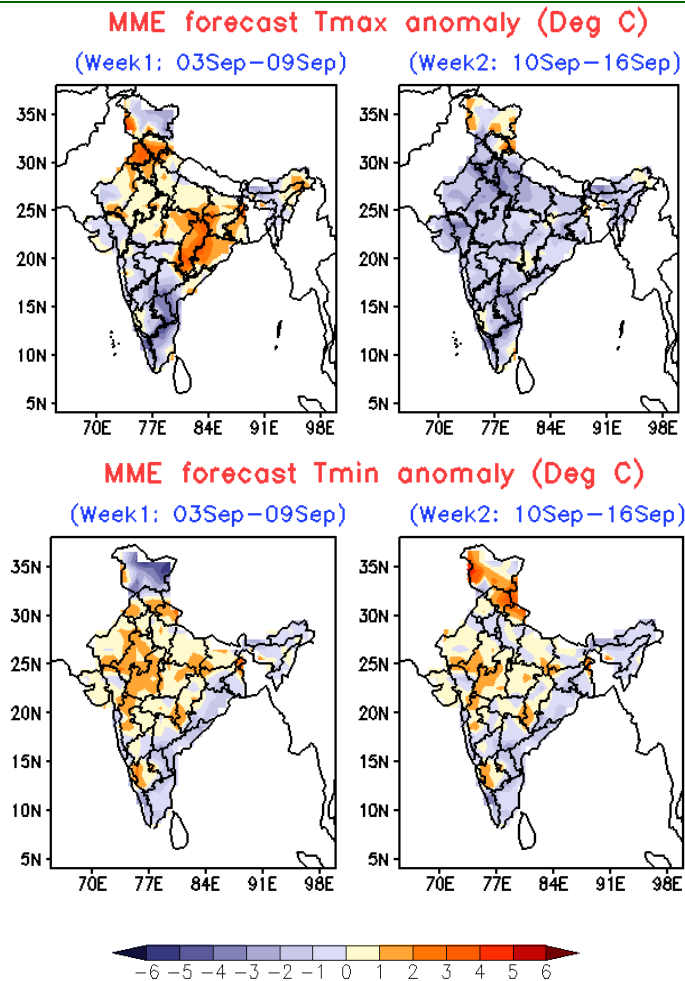
NOTES:  
 [a] Rainfall figures are based on MME Forecast data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.



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 (03.09.2021 to 09.09.2021):** Likely increase of rainfall over parts of central and western India.
- **Week 2 (10.09.2021 to 16.09.2021):** Likely increase of rainfall over parts of north and northwest India and adjoining central India. Thus, withdrawal of monsoon is unlikely till next two weeks.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 01 Sept.)  
(3<sup>rd</sup> to 16<sup>th</sup> Sep., 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (03.09.2021 to 09.09.2021):** Mainly above normal Tmax likely in week 1 over Northwest India. Above normal Tmax is also likely over the eastern parts of India (Odisha, Chhattisgarh) in week 1. Below normal Tmax over southern peninsula and some parts of Northeast India in week 1.
- **Week 2 (10.09.2021 to 16.09.2021):** Mostly slightly below normal Tmax likely over India in week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (03.09.2021 to 09.09.2021) and Week 2 (10.09.2021 to 16.09.2021):** Slight positive Tmin anomaly likely over northwest and adjoining parts of north and central India in week 1 and week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 16 September 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 1428 mm (-21% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) is above normal for week-1 and normal for week-2.

- Because of high moisture content in the atmosphere, there is a chance for the development of *mahali* disease in arecanut and coconut. To manage, it is advised to spray Copper oxychloride @ 3 g per litre of water under clear weather conditions.
- Prevailing weather condition is congenial for leaf blotch disease in turmeric. To control it, spray Contaf @ 2 ml in one litre of water under clear weather conditions.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 300 mm (32% excess) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) is above normal for both week-1 and week-2.

- Prevailing weather condition is favorable for sucking pest infestation in summer irrigated cotton. To manage, it is advised to spray Methyl demeton 25 EC 500ml/ha or Dimethoate 30 EC 500ml/ha under clear weather conditions.
- Prevailing weather is conducive for bacterial disease (Enterotoxaemia) in sheep and goat. For prevention, it is advised to vaccinate young animals at 6 weeks of age and revaccination should be done every year prior to rainy season.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 636 mm (4% excess); Marathwada is 618 mm (17% excess); Vidarbha is 693 mm (-15% deficit) and Konkan region is 2880 mm (12% excess) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Konkan, Marathwada, Vidharbha and Madhya Maharashtra is above normal for week-1; above normal over Konkan and Vidharbha, below normal over Madhya Maharashtra and Marathwada for week-2.

#### Marathwada

- Due to cloudy weather condition sucking pests may observed in cotton crop. For management of it is advised to spray 5% NSKE or Fipronil 5% @ 30 ml or Spinetoram 11.7% @ 8 ml per 10 litres of water during week-2.
- Under prevailing humid, cloudy weather condition, there is a chance of early blight in tomato crop. For management, it is advised to spray Azoxystrobin 18.2% + Difenconazole 11.4% @ 10 ml + 5 ml Sticker per 10 litres of water during clear weather condition during week-2.

### *Vidharbha*

- The recent continuous rainy, cloudy weather and waterlogging condition may cause wilting in pigeon pea. To control, drenching with copper oxychloride 50% WP @ 25 g or Captan 75% WP @ 25 g in 10 litres of water under clear weather conditions.
- 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 increase in humidity, there is possibility of incidence of koleroga disease in arecanut leads to fruit drop. If incidence noticed, spray of Bordeaux mixture @1% mixing with sticker on to crown region during clear weather is advised under clear weather conditions under clear weather conditions.
- Due to intermittent rainfall, humidity and cloudy weather, there is a chance of incidence of caseworm in rice. To manage, it is advised to flood the field with water followed by dragging the rope to dislodge the cases and drain out water from field and if required spray Cartap hydrochloride 50% SP @12 g per 10 litres of water under clear weather conditions.

### *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 conditions.

### **Hisar**

Amount of rainfall received over Hisar is 441 mm (17% excess) during 01 June - 03 September 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Hisar is 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 conditions.
- 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 - 03 September 2021 over South Interior Karnataka is 604 mm (10% excess) and North Interior Karnataka is 480 mm (32% excess). The extended range weather forecast (rainfall) for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1; 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.
- Vaccination for the cow is advised against the *Haemorrhagic Septecemia* (HS) and Black Quarter (BQ) Disease at the age of six-month-old calf.

### **Uttar Pradesh**

Rainfall received during 01 June - 03 September 2021 over East Uttar Pradesh is 675 mm (-1% deficit) and West Uttar Pradesh is 466 mm (-22% deficit). The extended range weather forecast (rainfall) for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over East Uttar Pradesh is above normal and West Uttar Pradesh is normal for week-1; above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

### *Western Uttar Pradesh*

- Due to the chances of rainfall, farmers are advised to do proper arrangement for drainage in all vegetables, pulse, maize and vegetables nursery and also advised do not irrigate in the crops.
- 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 under clear weather conditions.

### *Eastern Uttar Pradesh*

- Under prevailing weather condition, there is a possibility for attack of *khaira* disease in paddy. Hence, farmers are advised to spray  $ZnSO_4 @ 5 \text{ kg} + 20 \text{ kg}$  urea dissolved in 800 litres of water under clear weather conditions.

### **Jammu**

Amount of rainfall received over Jammu is 325 mm (-31% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Jammu is below normal for week-1 and above normal for week-2.

- Prevailing weather is congenial for hairy caterpillar. If observed, it is advised to spray Quinalphos @ 0.03% or Dichlorvos @ 0.05%.
- Under prevailing weather condition, transplanting of cabbage, cauliflower, khol khol is advised



from nursery to the main field.

### **West Bengal**

Amount of rainfall received over West Bengal is 1055 mm (13% excess) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over West Bengal is normal for week-1 and above normal for week-2.

- For the management of chili leaf curl, it is advised to spray Imidacloprid @ 0.2 ml/litre of water at the evening hours under clear weather conditions.

### **Odisha**

Amount of rainfall received over Odisha is 671 mm (-30% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Odisha is below normal for week-1 and above normal for week-2.

- For the management of stem borer in paddy at early stage of crop, it is advised to apply Cartap hydrochloride 4 % G @ 8 kg/acre or Chlorantraniliprole 0.4 % GR @ 4 kg/acre under clear weather conditions.
- Sowing of non-paddy crops like blackgram, greengram, groundnut, arhar, sesame, cowpea *etc.* in rainfed upland is advised.

### **Assam**

Amount of rainfall received over Assam is 1251 mm (-16% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Assam is normal for week-1 and week-2.

- Due to congenial weather condition, infestation of army worm or swarming caterpillar may observe in *sali* rice field. If infestation occurs within a short period of time, then it is advised to spray Flubendiamide 20% WG @ 2.5 g per 10 litres of water.
- 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 814 mm (-15% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Chhattisgarh is normal for week-1 and above normal for week-2.

- Due to the possibility of light to moderate rainfall, nursery preparation for cauliflower, capsicum and cabbage is advised and also *kharif* onion should be planted to the main fields.



## **Gujarat**

Amount of rainfall received over Gujarat is 447 mm (-44% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Gujarat is above normal for week-1 and week-2.

- For the management of aphid in green gram and black gram, it is advised to spray Imidacloprid 17.8 SL 3 ml or Thiamethoxam 25 WG 4 g in 10 litres of water.

## **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 420 mm (48% excess) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Andhra Pradesh is above normal for both week-1 and week-2.

- The present weather condition is favorable for leaf folder and stem borer in rice crop. For effective control, spraying of Acephate @ 1.5 g or Chlorantraniliprole @ 0.4 ml/litre of water is recommended.
- Current weather condition is congenial for incidence of 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 527 mm (-19% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 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.
- Tea leaves should be plucked at an interval of 8-10 days to maintain the quality and productivity of tea gardens.

## **Bihar**

Amount of rainfall received over Bihar is 951 mm (16% excess) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Bihar is above normal for week-1 and week-2.

- Regular monitoring is advised against infestation of stem borer in paddy. If infestation is observed, application of Cartap hydrochloride 4G @ 10kg/acre is advised under clear weather conditions.
- Weather condition is favourable for sowing pigeon pea in upland areas. Recommended varieties

are *Pusa-9* and *Sarad*.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 793 mm (-6% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Jharkhand is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, sowing of early potato is advised. Recommended early varieties are *Kufri Ashoka*, *Kufri Chandramukhi*, and *Kufri Pukhraj*.
- For the management of gundhi bug in rice crop, dusting of Chlorpyrifos/Methyl Parathion @ 10 kg per acre is advised under clear weather conditions.

### **Rajasthan**

Amount of rainfall received over East Rajasthan is 524 mm (normal rainfall) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over East Rajasthan is above normal for week-1 and week-2.

- To prevent viral diseases in soybean, spraying of Imidacloprid 17.8 % SC @ 1.0 ml / 3 litres of water is recommended under clear weather conditions.
- 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 under clear weather conditions.

### **Punjab**

Amount of rainfall received over Punjab is 299 mm (-25% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 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 953 mm (-6% deficit) during 01 June - 03 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (03 - 09 September 2021 and 10 - 16 September 2021) over Uttarakhand is above normal for week-1 and week-2.

- Staking with the bamboo is advised for mechanical support in cucurbit crops.
- Under prevailing weather condition, land preparation for sowing of radish crop in low latitudes areas is advised.

***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 weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will 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 presented in this bulletin.*