



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity: 18 June – 01 July 2021**

**Date of issue: 18 June 2021**

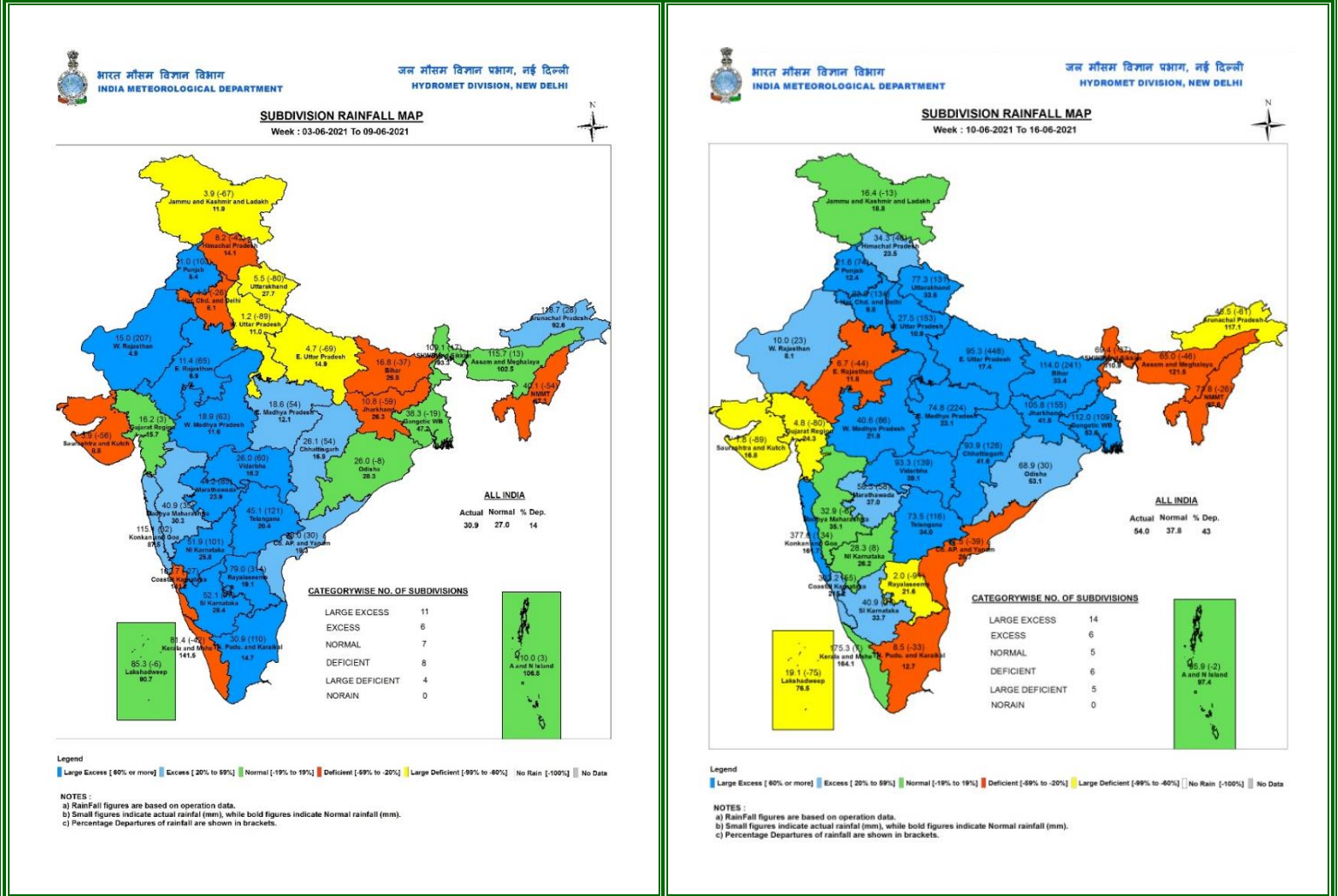
Issued by

**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

(3<sup>rd</sup> to 16<sup>th</sup> June, 2021)



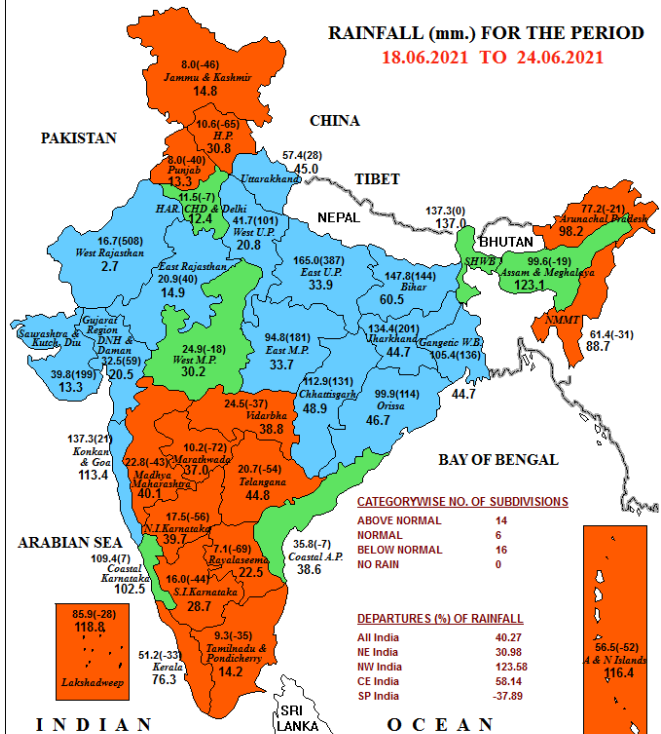
- Normal or above normal rainfall occurred in both the weeks in Punjab, West Rajasthan, Gangetic West Bengal, Odisha, Madhya Pradesh, Chhattisgarh, Vidarbha, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, North Interior Karnataka, South Interior Karnataka and Andaman & Nicobar Islands.
- Normal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

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 16 June) (18<sup>th</sup> June to 1<sup>st</sup> July, 2021)

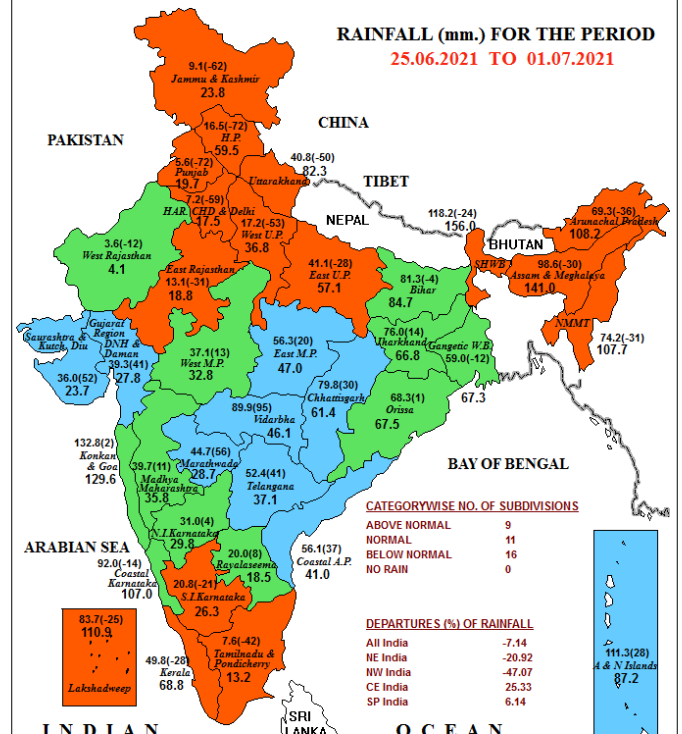
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

##### Rainfall Forecast Map - Normal RF Based Categories



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##### Rainfall Forecast Map - Normal RF Based Categories



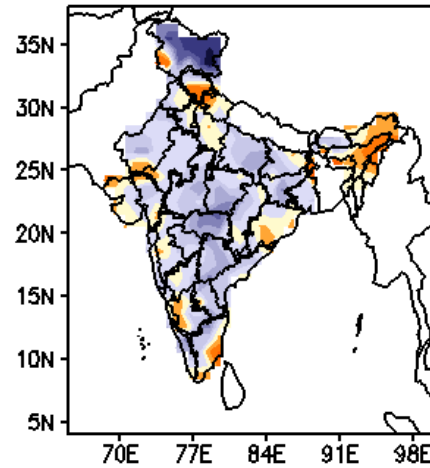
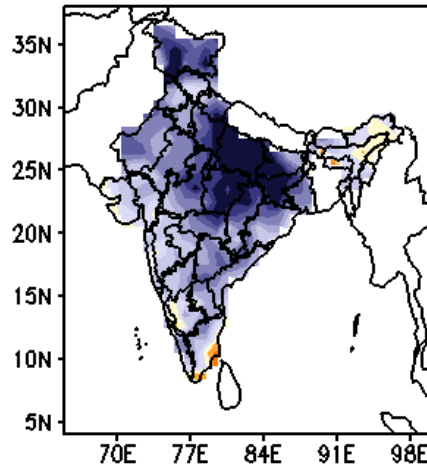
- **Week 1 (18.06.2021 to 24.06.2021):** Above normal rainfall over Jharkhand, Bihar, Uttar Pradesh, north Chhattisgarh, adjoining north and interior Odisha and Gangetic West Bengal in week 1 with likely heavy rainfall over some parts of these regions.
- **Week 2 (25.06.2021 to 01.07.2021):** Rainfall will decrease in week 2 particularly over the northern parts, north-eastern parts and northwestern parts of the country. However, central India is expected to have normal rainfall.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 16 June)  
(18<sup>th</sup> June to 1<sup>st</sup> July, 2021)**

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

(Week1: 18Jun–24Jun)

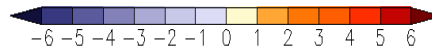
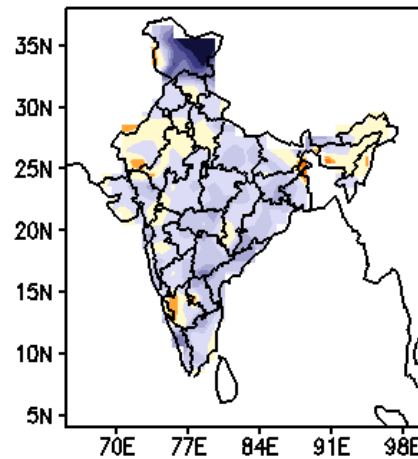
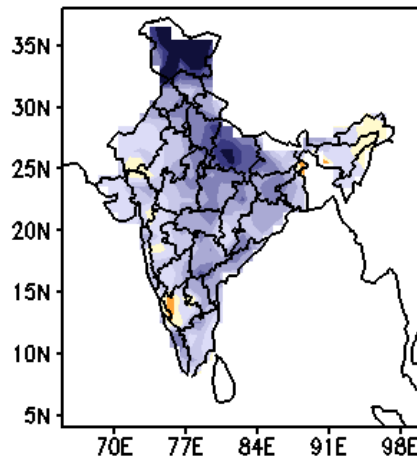
(Week2: 25Jun–01Jul)



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

(Week1: 18Jun–24Jun)

(Week2: 25Jun–01Jul)



**Maximum Temperature (Tmax)**

- **Week 1 (18.06.2021 to 24.06.2021):** Tmax will remain mainly below normal in week 1.
- **Week 2 (25.06.2021 to 01.07.2021):** Tmax will show normal pattern in week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (18.06.2021 to 24.06.2021):** Tmin will be mainly below normal in week 1.
- **Week 2 (25.06.2021 to 01.07.2021):** Tmin will show mostly normal patterns in week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 01 July 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 326.4 mm (-13% deficit) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) is below normal for week-1 and week-2.

- Under prevailing rainy weather condition, there is a chance of leaf fall in nutmeg. To prevent, spray 1% Bordeaux mixture.
- The weather condition is also congenial for fungal disease in vegetable crops. As a preventive measure, it is advised to spray *Psuedomonas* or *Trichoderma* @ 20 g per litre of water at two weeks' intervals. If the disease is noticed, spray 1% Bordeaux mixture or 3 g Copper oxy chloride in one litre of water.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 45.7 mm (33% excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for aphids and thrips incidence in chilli. To manage, it is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Weather condition is also favorable for mealy bug incidence in Guava and Mango. To manage, it is advised to apply Triozophos 2 ml + Neem oil 5 ml/1 or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/1 or release *Cryptolaemus montrouzieri* beetles @ 10/tree.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 132.0 mm (62% large excess), Marathwada is 129.2 mm (73% large excess), and Vidarbha is 139.4 mm (93% large excess) and Konkan region 669.1 mm (111% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) over Konkan is above normal and Madhya Maharashtra, Vidharbha, and Marathwada is below normal for week-1 and over Konkan, and Madhya Maharashtra is normal and above normal over Vidharbha and Marathwada for week-2.

#### Marathwada

- For the management of fall Armyworm in maize crop, it is advised to treat the seeds with Cyantraniliprole 19.80% + Thiomethoxam 19.80% @ 4 ml per kg of seed.

#### Vidharbha

- Under prevailing weather condition, sowing of cotton crop is advised with desi cotton varieties AKA-5, AKA-7 and AKA-8, and American variety AKH-081.
- Due to the chances of thunderstorm with lightning and gusty wind, it is advised to keep the farm

animals indoor.

### *Madhya Maharashtra*

- Under sufficient moisture condition, sowing of short duration pulses or cereals like cowpea, green gram, black gram, moth bean, urdbean and bajra is advised.
- For the management of wilt and root rot diseases in pigeonpea, green gram, blackgram, groundnut, soybean, it is advised to treat the seeds with Thiram + Carbendazim @ 2 g/kg or *Trichoderma* @ 5 g/kg and after chemical treatment, treat the seed with *Rhizobium* and PSB @ 25g/kg before sowing.

### *Konkan*

- Due to the chances of very heavy rainfall, it is advised to postpone the sowing of rice nursery and make the arrangement to drain out excess water from nursery raised bed.
- Under prevailing rainy weather condition, earthing up to newly planted banana orchard is advised to avoid stagnation of rainwater near stem portion.

### **Hisar**

Amount of rainfall received over Hisar is 43.0 mm (112% large excess) during 01 June 2021 - 18 June 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) over Hisar is normal for week-1 and below normal for week-2.

- Due to hot and dry weather condition, farmers are advised to apply light irrigation in planted vegetable crops and fruit plants as per requirement.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop.

### **Karnataka**

Rainfall received during 01 June 2021 - 18 June 2021 over South Interior Karnataka is 128.4 mm (58% excess) and North Interior Karnataka is 114.6 mm (77% large excess). The extended range weather forecast (rainfall) for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and below normal over South Interior Karnataka and normal over North Interior Karnataka for week-2.

### *South Interior Karnataka*

- After receiving sufficient rainfall, sowing of long duration crops like red gram is recommended with varieties BRG-1, 2, 4 &5, TTB-7 and Castor crop with varieties DCH-9, 32 &177. For maize Ganga-11, Deccan-103, Vijaya composite, Composite NAC- 6004, 6002, Hybrid-Nityashree (NAH-2049).
- For the management of fruit fly damage in mango, spray of Carbaryl @ 4 g/litre of water is advised.



## Uttar Pradesh

Rainfall received during 01 June 2021 - 18 June 2021 over East Uttar Pradesh 132.5 mm (215% large excess) and West Uttar Pradesh is 46.0 mm (56% excess). The extended range weather forecast (rainfall) for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and below normal for week-2.

### Western Uttar Pradesh

- Under prevailing weather condition, farmers are advised to sow short duration rice with recommended varieties N-118, N-80, N-1, N-2, N-97, Pant dhan-12, Barani deep, IR-50, Ratna, HUR-3022 and also scented rice varieties T-3, Pusa basmati-1, Pusa sungandh-4 & 5, Malviya sugandh-4 & 3 and Malviya basmati 10 & 9.
- Under prevailing weather condition, farmers are advised to sow *kharif* maize. Recommended varieties of Hybrid are Dakan-107, Malveya-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113 and Composite varieties are Novjoti, Pusa-2, Prabhat and Azad uttam.

### Eastern Uttar Pradesh

- Under prevailing weather condition, there is a chance of downy mildew in cucurbits and other vegetables. To prevent, it is advised to spray Mancozeb @ 2g/litre.
- Under prevailing weather condition, sowing of *kharif* vegetables and nursery of brinjal, chillis and cauliflower is advised.

## Jammu

Amount of rainfall received over Jammu is 30.7 mm (-24% deficit) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Farmers are advised to protect young fruit plants from heat by providing thatches/cover and ensure free circulation of air.
- For the management of fruit fly in cucurbits, it is advised to apply Malathion @ 1.5ml/litre at weekly interval and also use of fruit fly traps @ 1-2 traps/kanal.

## West Bengal

Amount of rainfall received over West Bengal is 258.6 mm (103% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over West Bengal is above normal for week-1 and normal for week-2.

- For the management of Pumpkin beetle in bottle gourd, it is advised to spray Fenvalerate 0.4% dust or Cholorpyriphos 1.5% dust @ 10 kg/acre.
- Under prevailing weather condition, farmers are advised to prepare the nursery for chilli, *kharif*

cucurbits, early cauliflower and brinjal crop.

### **Odisha**

Amount of rainfall received over Odisha is 126.7 mm (24% excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Odisha is above normal for week-1 and normal for week-2.

- Farmers are advised to provide staking to plantation crops like banana, papaya, small mango trees and sugarcane crop.
- Under prevailing weather condition, sowing of pigeon pea crop is advised with varieties PRG-235, PRG 176, VL ARHAR1, T-Arhar.

### **Assam**

Amount of rainfall received over Assam is 237.8 mm (-18% deficit) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Assam is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers are advised for cultivation of summer bottle gourd with varieties Pusa Summer Prolific long, Pusa Summer Prolific Round, Pusa Meghdoot and Pusa Manjiri.
- Under prevailing weather condition, it is advised to maintain proper drainage channel in citrus orchard to drain out excess amount of water.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 73.1 mm (60% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- It is optimum time for plucking tea leaves at 8-9 days interval to maintain the quality and productivity of tea gardens.
- Due to the chances of high temperature, farmers are advised to harvest the mature vegetables at morning and evening hours only.
- Under prevailing weather condition, transplanting of chillies, tomato and brinjal seedlings is advised.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 127.4 mm (63% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June



2021 and 25 June 2021 - 01 July 2021) on rainfall over Uttarakhand is above normal for week-1 and below normal for week-2.

- Staking is advised in tomato, capsicum and cucurbitaceous crops to protect from heavy rainfall and gusty winds.
- To control the insect/pest in vegetable crop fields, it is advised to install pheromone trap, light trap, and yellow strip in the crop fields.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 150.1 mm (106% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Due to chances of rainfall, farmers are advised for sowing of rice on nursery bed, soybean, pigeon pea and maize with proper drainage channel facilities in the crop field.
- Under prevailing weather condition, farmers are advised to vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

### **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 123.7 mm (166% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Under prevailing weather condition, nursery bed preparation for sowing of chilli and brinjal seeds in the nursery is advised.
- Sugarcane plants should be tied to prevent from lodging due to strong winds.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 88.4 mm (85% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Andhra Pradesh is below normal for week-1 and normal for week-2.

- In Ananthapuramu, Kurnool, Kadapa, Chittoor and Prakasam districts, farmers are advised to sow the red gram varieties with varieties LRG-41, LRG-52, PRG-176, ICPL 85063 and ICPL 87119.

### **Gujarat**

Amount of rainfall received over Gujarat is 39.9 mm (-25% deficit) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021

and 25 June 2021 - 01 July 2021) on rainfall over Gujarat is above normal for week-1 and week-2.

- Under sufficient rainfall, sowing of pearl millet is advised. Recommended varieties are GHB-558, GHB-538, GHB-577, GHB-719, GHB732 and GHB-744 etc.
- With the onset of monsoon, it is advised to vaccinate the animals against the diseases like Foot and Mouth disease (FMD), *Haemorrhagic septicaemia* (HS) and Black quarter (BQ).

### **Bihar**

Amount of rainfall received over Bihar is 187.3 mm (148% large excess) during 01 June 2021 - 18 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 June 2021 and 25 June 2021 - 01 July 2021) on rainfall over Bihar is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised for nursery sowing of medium duration rice with varieties Sita, Santosh, Saroj, Rajshri, Prabhat, Rajendra suhasni, Rajendra kasturi and Rajendra bhagwati in North Bihar.
- Under prevailing weather condition, sowing of *kharif* maize is advised. Recommended varieties for North Bihar are Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3 and Ganga 11.

### ***Disclaimer:***

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