



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),  
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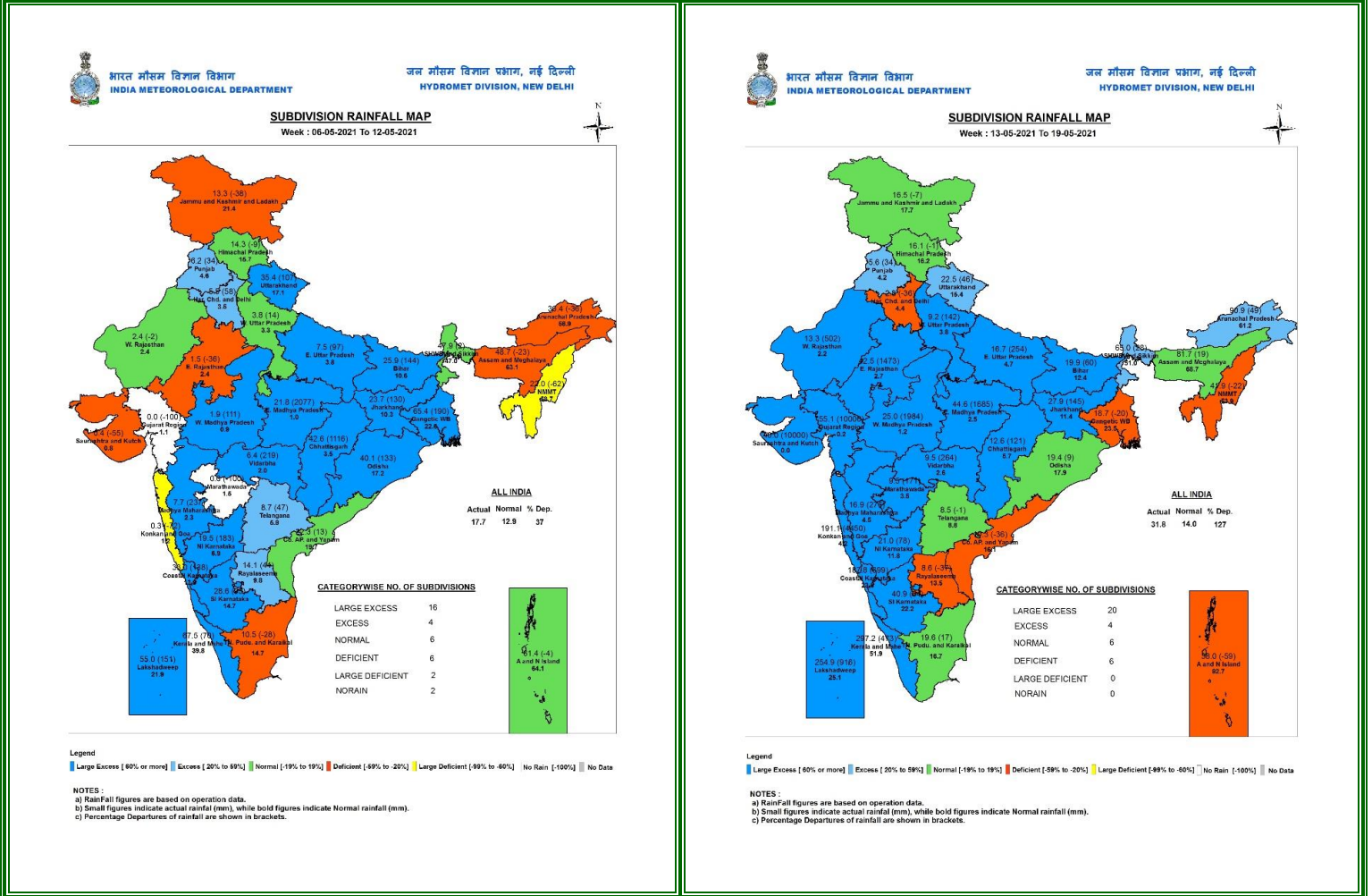
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**India Meteorological Department (IMD),  
Earth System Science Organization**

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

## Realized Rainfall

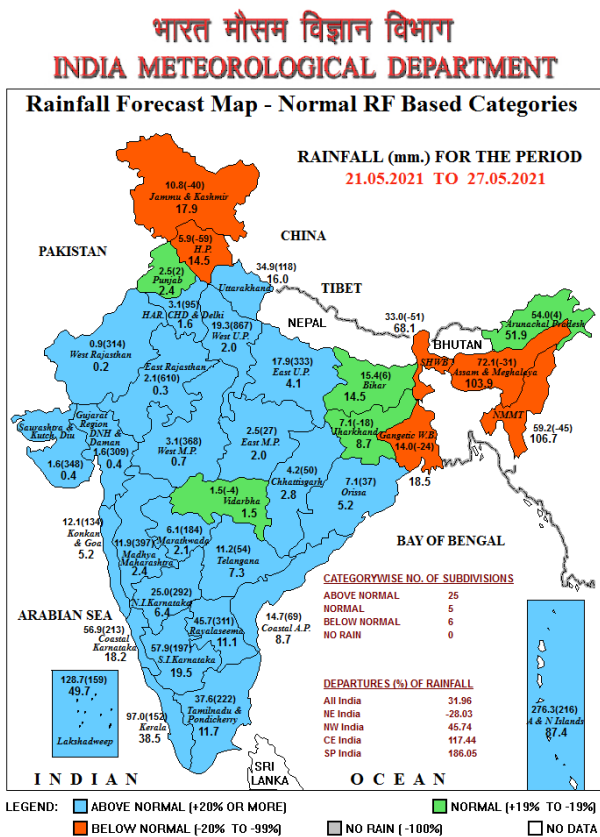
(6<sup>th</sup> to 19<sup>th</sup> May, 2021)



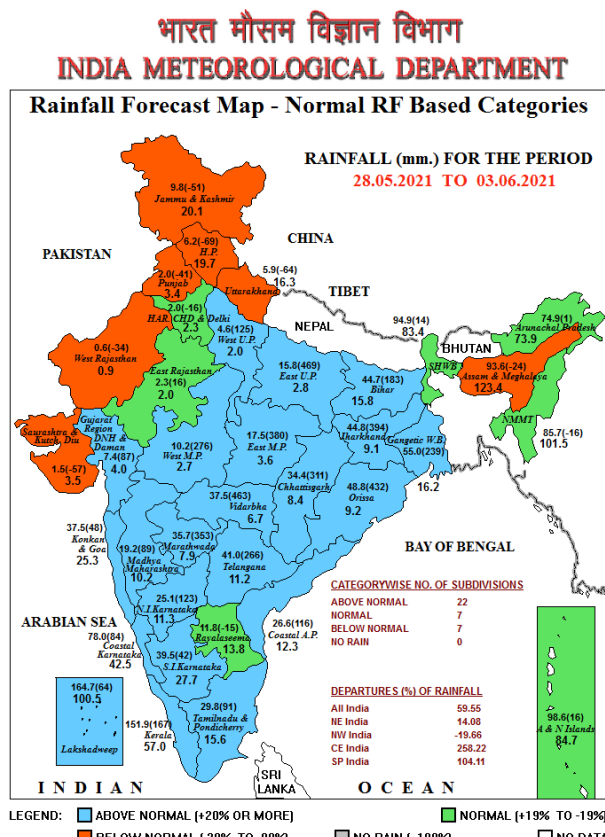
- Normal or above normal rainfall occurred in both the weeks in Himachal Pradesh, Punjab, West Rajasthan, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Sub -Himalayan West Bengal & Sikkim, Odisha, Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Vidarbha, Telangana, Karnataka, Kerala & Mahe and Lakshadweep.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

# Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 19 May)  
(21<sup>st</sup> May to 03<sup>rd</sup> June, 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.



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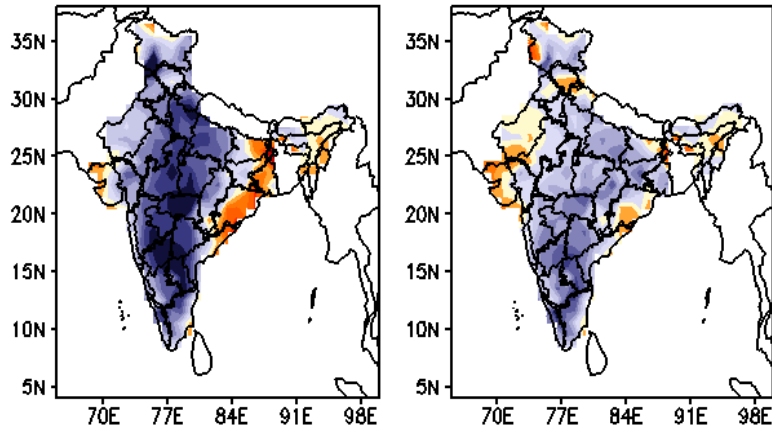
- **Week 1 (21.05.2021 to 27.05.2021) and Week 2 (28.05.2021 to 03.06.2021):** (i) South peninsula (Kerala and Tamil Nadu) will receive above normal rainfall during week-1 associated with the system. Also, rainfall is likely over Uttarakhand, Uttar Pradesh and adjoining Bihar in week-1. Bay of Bengal will also be active in week-1 associated with the system and there will be good rainfall activity over northeastern states. (ii) Rainfall over south peninsula, east central parts of India and the north-eastern states will increase slightly.

**Maximum and Minimum temperature anomaly ( $^{\circ}$ C) forecast  
for next 2 weeks (IC – 19<sup>th</sup> May)  
(21<sup>st</sup> May to 03<sup>rd</sup> June, 2021)**

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

(Week1: 21May–27May)

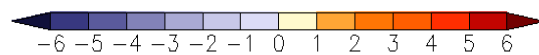
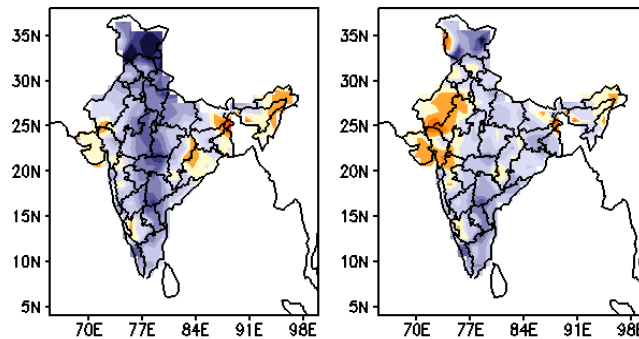
(Week2: 28May–03Jun)



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

(Week1: 21May–27May)

(Week2: 28May–03Jun)



**Maximum Temperature (Tmax)**

- **Week 1 (21.05.2021 to 27.05.2021) and Week 2 (28.05.2021 to 03.06.2021):** Tmax will be below normal over the country during the period except for Odisha, Gangetic West Bengal, Jharkhand, Bihar & adjoining region and parts of western coast.

**Minimum Temperature (Tmin)**

- **Week 1 (21.05.2021 to 27.05.2021):** Warm anomalies over north-eastern parts of Indian during week 1.
- **Week 2 (28.05.2021 to 03.06.2021):** Warm anomalies over the north-western parts of India during week 2.
- ii) Except that, Tmin will be normal to slightly below normal during the entire period.

## Strategic Agricultural Planning based on rainfall during next two weeks till 03 June 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 593.1 mm (129% large excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) is above normal for week-1 and week-2.

- Because of heavy rainfall and flash floods due to 'Tauktae' cyclonic storm, many plantation crops were uprooted. Water stagnation in the pit of coconut seedlings and other plantation crops occurred. Therefore, farmers are advised to prepare proper drainage system and build ridges around the field to drain out excess water from the field. Soil erosion may cause loss of micro nutrients viz. Ca, Mg, B and Zn which can be compensated by application of Sampoorana, Lime, dolomite etc.
- Prevailing cyclonic rain and high humidity may cause incidence of fungal/Mahali diseases in arecanut plants. To protect, it is advised to spray of 1 % Bordeaux mixture.
- Prevailing cyclonic rain in summer and high humidity is also congenial for bud rot disease in coconut. To manage, it is advised to apply 10 % Bordeaux paste and cover with plastic cover.
- Under prevailing weather condition, farmers are advised for nursery preparation for the rice.
- Due to the increase in rainfall, there is a chance of Rhizome rot in banana. As a precaution, it is advised to pour 5 litre of *Pseudomonas* solution (20 g per 1litre) at the basin.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 87.7 mm (-17% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) is above normal for 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 NSKE 5% @ 2 kg/ha.
- Prevailing weather condition is 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 52.4 mm (152% large excess), Marathwada is 27.5 mm (48% excess), and Vidarbha is 40.7 mm (76% large excess) and Konkan region 214.7 mm (1767% large excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) over Konkan, Madhya Maharashtra and Marathwada is above normal and normal over Vidharbha for week-1 and above normal over Konkan, Madhya Maharashtra, Vidarbha and Marathwada for week-2.

### *Marathwada*

- Due to the chances of thunderstorm and rainfall, it is advised to harvest summer groundnut crop and store the harvested crop at safe place.
- For the management of thrips in Grape orchard, it is advised to spray 5% NSKE or Spinosad 45% @ 2.5 ml or Fipronil 80% @ 0.6 ml or Emamectin Benzoate 5% @ 4 ml per 10 litres of water.

### *Vidharbha*

- Under prevailing weather condition, farmers are advised for deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds.
- Under prevailing weather condition, it is advised to harvest matured summer sesame, groundnut and greengram crop and store the produce at safe place.

### *Madhya Maharashtra*

- To avoid water stress in groundnut crop during peg formation to pod development, irrigation is advised through sprinkler.

### *Konkan*

- Due to cyclonic storm, there is breaking, twisting and uprooting of complete plants of mango, cashewnut, spices, coconut and arecanut. Farmers are advised to remove the dead trees, dried branches and dispose it off, to avoid incidence of stem borer in mango and cashewnut orchards and red palm weevil in coconut and arecanut orchards.
- Due to cyclonic storm, there is also bending of complete plant without root exposure. Farmers are advised for earthing up and straighten plants by giving proper support.
- Due to heavy rainfall with gusty winds, it is advised to postpone the sowing of vegetable crops and make arrangement to drain out excess water from already sown vegetable nursery area.
- Under prevailing cyclonic storm, it is advised to harvest the matured fruits like mango, cashewnut, sapota and banana and store them at safe place.

### **Hisar**

Amount of rainfall received over Hisar is 36.9 mm (18% excess) during 01 March 2021 - 20 May 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) over Hisar is above normal for week-1 and normal for week-2.

- Due to variable weather condition, farmers are advised to apply light irrigation in planted vegetable crops and fruit plants as per requirement.
- Under prevailing weather condition, farmers were advised to go for sowing of sorghum, maize

and lobia as a fodder crop.

- It is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

### **Karnataka**

Rainfall received during 01 March 2021 - 20 May 2021 over South Interior Karnataka is 147.0 mm (38% excess) and North Interior Karnataka is 88.1 mm (55% excess). The extended range weather forecast (rainfall) for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

#### *South Interior Karnataka*

- For the management of incidence of leaf hopper it is advised to spray Azadirachtin (10,000 ppm) @ 7.0 ml/ litre of water.
- Under prevailing weather condition, sowing of cowpea, sesame, black gram and green gram is advised.

#### *North Interior Karnataka*

- Under prevailing weather condition, farmers are advised to take up land preparation and keep the land ready for *kharif* sowing.
- Vaccination of livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic Septicaemia* is advised.

### **Uttar Pradesh**

Rainfall received during 01 March 2021 - 20 May 2021 over East Uttar Pradesh 57.6 mm (136% large excess) and West Uttar Pradesh is 51.4 mm (112% large excess). The extended range weather forecast (rainfall) for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

#### *Eastern Uttar Pradesh*

- Under prevailing weather, farmers are advised for irrigation in standing crop as per requirement.
- Intercultural operation is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

### **Jammu**

Amount of rainfall received over Jammu is 229.1 mm (-26% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, land preparation and nursery raising of early transplanted

rice is advised. Recommended varieties are IET-1410, K-39, Ratna, PC-19, Jaya.

- For the management of sunburn and fungal diseases in horticultural crops, it is advised to white wash the trunk of the trees with slaked lime and copper sulphate.

### **West Bengal**

Amount of rainfall received over West Bengal is 320.8 mm (-1% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over West Bengal is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to harvest the boro rice as early as possible.
- To control the fruit drop and increase fruit size in mango, it is advised to spray Planofix/Thaitozyle @ 3ml/15litres of water along with compound micro nutrient (Boron) @ 45g/15 litres of water.

### **Odisha**

Amount of rainfall received over Odisha is 101.3 mm (-1% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Odisha is above normal for week-1 and week-2.

- Prevailing higher day temperature may cause bacterial wilt disease in tomato and brinjal. To manage, it is advised to spray Streptocycline @ 1g in 10 litres water in the root zone of the plants.
- Under prevailing hot and dry weather condition, summer ploughing is advised in the field to kills the eggs, larvae and pupae of soil borne insects and pests.

### **Assam**

Amount of rainfall received over Assam is 311.7 mm (-33% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised to prepare nursery bed for sowing of Sali rice. Recommended varieties are Ranjit, Ranjit Sub 1, Bahadur, Satyaranjan, Basundhara, Mahsuri, Ketekijoha etc.
- Under prevailing rainy weather condition, it is advised to prepare small drains at required interval in the vegetable field to drain out excess water and provide mechanical support to banana, citrus, papaya etc. to protect them from lodging.
- To protect the goats and sheeps from Contagious Ecthyma disease, immunize them at 6-8 weeks



of age with vaccines after proper consultation with veterinary doctor.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 204.0 mm (-8% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of improved varieties of root vegetables like radish, turnip, carrot and spinach in low lying areas of the state is advised.
- Under the prevailing weather condition, there is a chance of thrips attack in onion. To control, spraying of Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) under clear sky conditions is advised.
- Under prevailing increase in temperature, it is advised to make proper ventilation in poultry houses.

### **Gujarat**

Amount of rainfall received over Gujarat is 56.2 mm (1712% large excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Gujarat is above normal for week-1 and week-2.

- Because of heavy rainfall with gusty winds due to the cyclone 'Tauktae', it is advised to drain out excess water from crops field and harvest of the mature crops and light sun drying of the harvested product to avoid post-harvest loss due to infection of fungi/bacteria.
- Prevailing rainy weather condition, and existing soil moisture condition can be used for land preparation for *kharif* crops and early sowing of cotton crop is advised for cotton growing areas of Saurashtra.
- Due to cyclonic storm, there are damages in fruit tress/orchard. It is advised to drain out excess water from orchard and prune the mango trees as per requirement to avoid further damage and also remove fallen twigs, branches, and broken trees from orchards.

### **Punjab**

Amount of rainfall received over Punjab is 41.6 mm (-15% deficit) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Punjab is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers are advised to sow nursery of rice with

recommended varieties PR 121, PR 122, PR 123, PR 124, PR 126, PR 127, PR 128, PR 129, PR 113, PR 114 and HKR.

- Due to the chances of rainfall, it is advised to make arrangement for drainage of excess water from the crop fields.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 173.9 mm (32% excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Uttarakhand is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, it is advised to transplant seedlings of tomato, capsicum chilli and brinjal and provide mechanical support to the vegetable creepers to prevent from strong winds.

### **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 92.6 mm (356% large excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Soil and residual mulching is advised to avoid evaporation losses from the fields, especially in vegetables and fruit orchards.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 86.3 mm (141% large excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Chhattisgarh is above normal for week-1 and below normal for week-2.

- Due to the possibility of light to moderate cloudiness and light showers, farmers are advised for harvesting of summer paddy.
- For the management of red pumpkin beetle, it is advised to spray Imidachloprid @ 8 ml per litre.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 69.4 mm (15% excess) during 01 March 2021 - 20 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (21 - 27 May 2021 and 28 May 2021 - 03 June 2021) on rainfall over Andhra Pradesh is above normal for week-1 and normal for week-2.

- For the management of fruit fly incidence in mango, it is advised to mix Malathion@ 2 ml and Methyl eugenol @2 ml per 1 litre of water to make a bait solution and pour 250 ml in plastic

dish and place at four different places per acre.

- Sowing of *kharif* groundnut is advised in Srikakulam, Vizianagaram, Visakhapatnam, Nellore, Chittoor, Ananthapuramu and Kurnool districts. Recommended high yielding and drought tolerant varieties are Kadiri-9, Kadiri Harithandhra, Anantha, Greeshma, Narayani, Abhaya, Dharani, Kadiri, Amaravathi and Kadiri Chitravathi.

***Disclaimer:***

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