



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 16 - 29 April 2021

Date of issue: 16 April 2021

Issued by

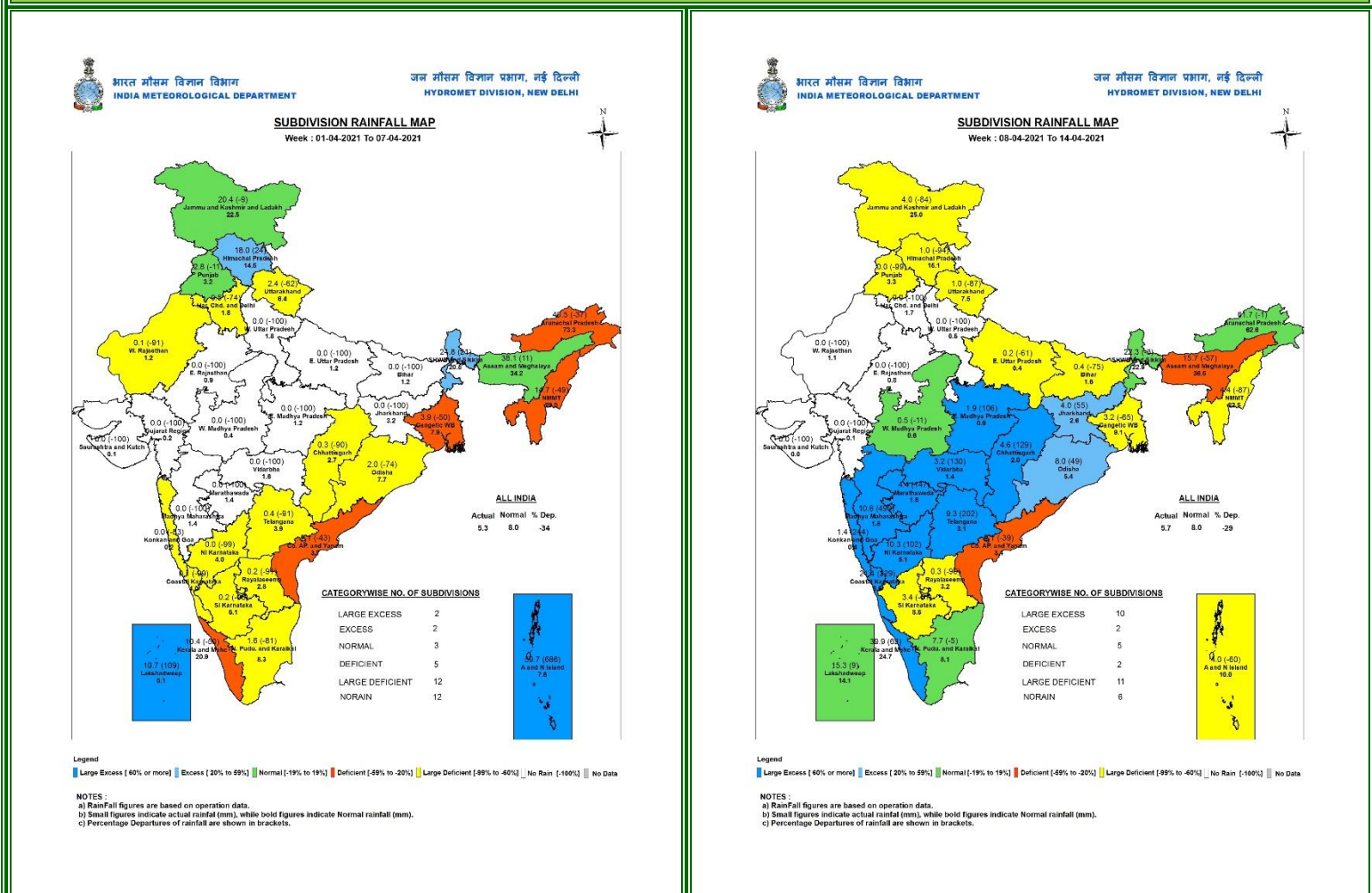
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (1st to 14th April, 2021)



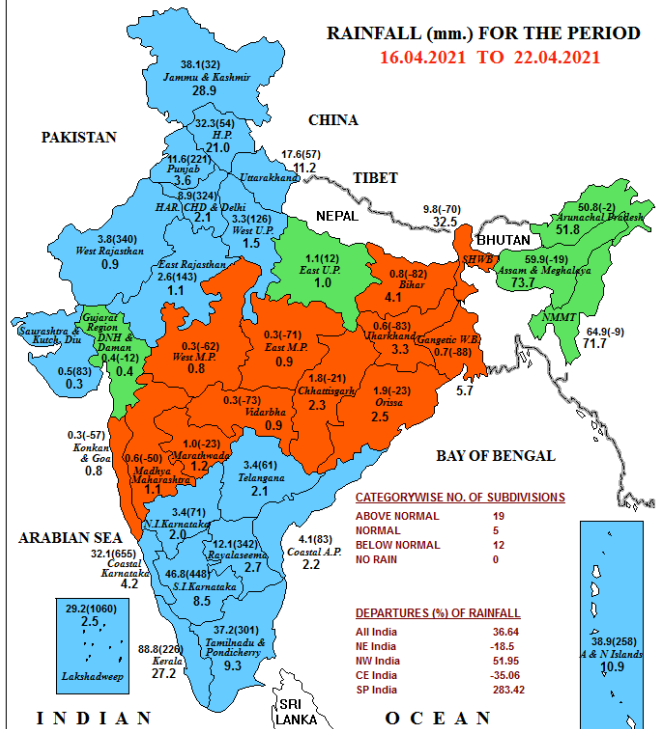
- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim and Lakshadweep
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Punjab, Arunachal Pradesh, Assam & Meghalaya, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Maharashtra & Goa, Telangana, North Interior Karnataka, Coastal Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below Normal rainfall / no rain occurred over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 14 April) (16th to 29th April, 2021)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

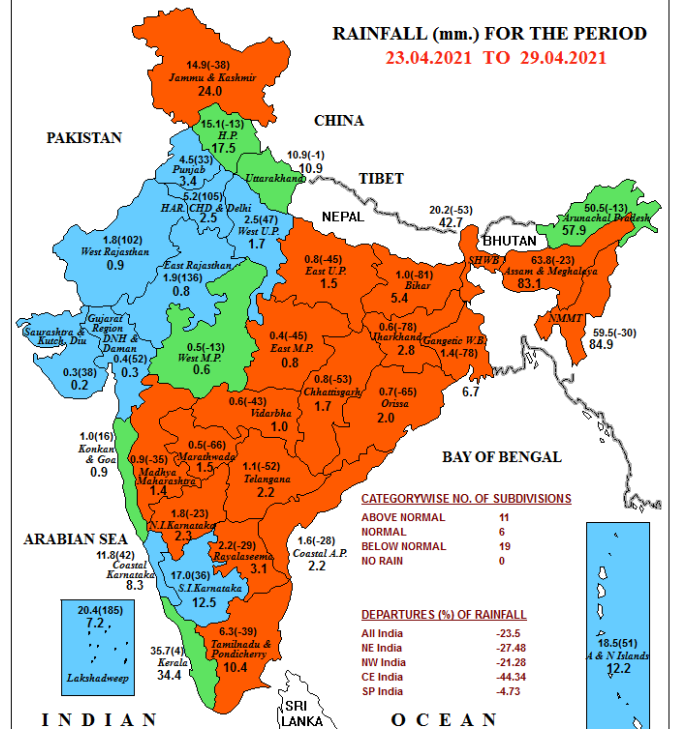
Rainfall Forecast Map - Normal RF Based Categories



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.

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



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.

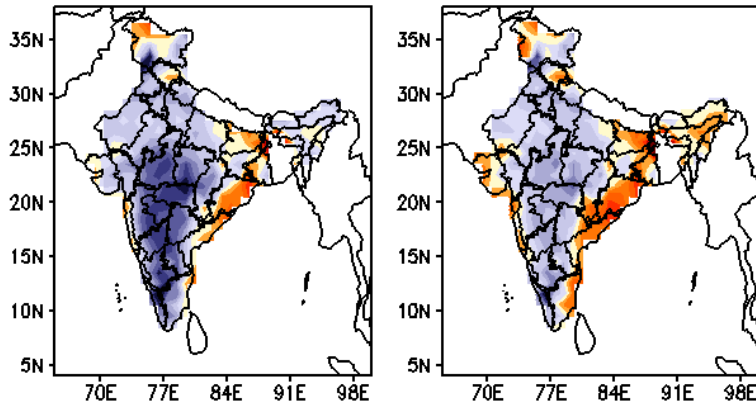
- Week 1 (16.04.2021 to 22.04.2021) and Week 2 (23.04.2021 to 29.04.2021):** Some parts of the south peninsula (Coastal Kerala and Tamil Nadu) and northeast region likely get rainfall during week 1. Western Disturbance associated rainfall over extreme north India is also likely in week 1. Northeastern parts of India will get rainfall associated with thunderstorm activity during the period from week 1 and week 2.

**Maximum and Minimum temperature anomaly (°C) forecast
for next 2 weeks (IC – 14 April)
(16th to 29th April, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 16Apr–22Apr)

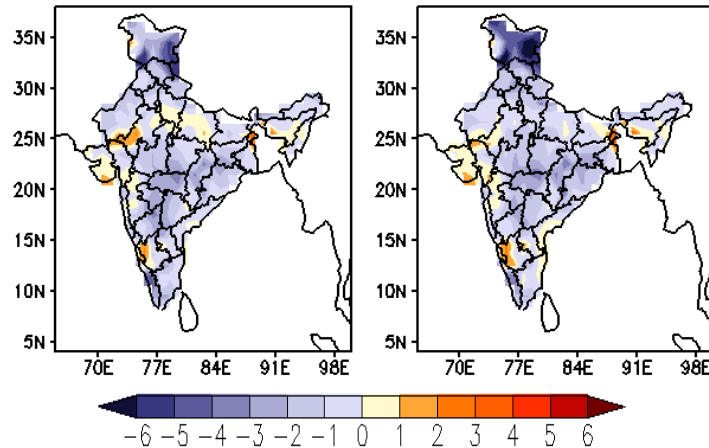
(Week2: 23Apr–29Apr)



MME forecast Tmin anomaly (Deg C)

(Week1: 16Apr–22Apr)

(Week2: 23Apr–29Apr)



Maximum Temperature (Tmax)

- **Week 1 (16.04.2021 to 22.04.2021):** Over extreme north India, eastern coastal region, Bihar and north eastern states Tmax will be above normal in week 1, whereas over the remaining parts it will be below normal during week 1.
- **Week 2 (23.04.2021 to 29.04.2021):** Odisha and adjoining region will be warmer than normal in week 2. Some parts of western India also likely to indicate slightly above normal Tmax in week 2.

Minimum Temperature (Tmin)

- **Week 1 (16.04.2021 to 22.04.2021) and Week 2 (23.04.2021 to 29.04.2021):** Warm anomalies over isolated regions of western India and parts of the south peninsula and parts of Uttar Pradesh and Bihar in week 1 and week 2, however, over most of India Tmin will be lower than normal during week 1 to week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 29 April 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 114.9 mm (41% excess) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) is above normal for week-1 and normal for week-2.

- Prevailing warm and humid weather condition is congenial for inflorescence die back and button shedding in arecanut. To manage, it is advised to spray Hexaconazole (Contaf) 1 ml per litre or Bordeaux mixture 1%.
- Under prevailing weather conditions, there is a chance of Rhizome weevil attack in banana. As a precaution, it is advised to apply Neem cake @ 1 kg/plant at the time of planting.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 27.5 mm (-30% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) is above normal for week-1 and below normal for week-2.

- Prevailing weather condition is favourable for thrip incidence in chilli. To control, it is advised to apply Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Prevailing weather is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

Maharashtra

Rainfall received over Madhya Maharashtra is 15.6 mm (148% large excess), Marathwada is 12.0 mm (28% excess), Vidarbha is 17.0 mm (25% excess) and Konkan region 1.6 mm (-1% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) over Konkan, Madhya Maharashtra, Vidharbha and Marathawada is below normal for week-1 and normal over Konkan and below normal over Vidharbha, Madhya Maharashtra and Marathawada for week-2.

Marathwada

- Due to the chances of gusty wind and rainfall, it is advised to provide support of bamboo sticks in newly planted fruits orchard.
- For the management of sucking pests in vegetable crops it is advised to spray Pyriproxyfen 5% + Fenpropathrin 15% @ 10 ml or Dimethoate 30% @ 13 ml per 10 litres of water during clear weather condition.

Vidharbha

- Under prevailing weather conditions, cultivation of summer vegetables like bitter gourd, tinda,

ridge gourd, smooth gourd, bottle gourd, cowpea, clusterbean, coriander is advised.

- 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.

Madhya Maharashtra

- To protect fruit crops from high temperature, it is advised to provide shades on fruit crops.
- Under prevailing high temperature, it is advised to protect milch animals by keeping them under the shed and provide green fodder and sufficient clean drinking water.

Konkan

- Due to chances of very light rainfall, it is advised to harvest the matured nuts during clear weather and sundry for 7 to 8 days and then stored in dry places.
- Due to chances of cloudy weather condition, there is possibility for incidence of fruit fly on mango fruits. Farmers are advised to collect and destroy all fallen fruits and install “Rakshak fruit fly trap” @ 2 traps per acre.

Hisar

Amount of rainfall received over Hisar is 4.8 mm (-70% large deficit) during 01 March 2021 - 15 April 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) over Hisar is above normal for week-1 and week-2.

- Under prevailing dry and cloudy weather condition, farmers are advised to harvest mature *rabi* viz., wheat and barley crops.
- 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 - 15 April 2021 over South Interior Karnataka is 17.2 mm (-38% deficit) and North Interior Karnataka is 13.8 mm (-20% deficit). The extended range weather forecast (rainfall) for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and above normal over South Interior Karnataka and below normal over North Interior Karnataka week-2.

South Interior Karnataka

- For the management of leaf hopper incidence in mango orchard, it is advised to spray Carbaryl, 50WP @ 4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water.
- Under prevailing weather condition, it is advised to provide proper ventilation for free circulation of air in the animal sheds. Also arrange to provide clean drinking water for the

animals.

Uttar Pradesh

Rainfall received during 01 March 2021 - 15 April 2021 over East Uttar Pradesh 0.6 mm (-94% large deficit) and West Uttar Pradesh is 0.7 mm (-94% large deficit). The extended range weather forecast (rainfall) for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) over East Uttar Pradesh is normal and West Uttar Pradesh is above normal for week-1 and above normal over West Uttar Pradesh and below normal over East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to the chances of hot and dry weather condition, farmers are advised for harvesting and threshing of all pulse, wheat and barley crop.
- Due to the high day and night temperature, farmers are advised to maintain the moisture level *zaid* crops.

Jammu

Amount of rainfall received over Jammu is 130.5 mm (-36% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Jammu is above normal for week-1 and below normal for week-2.

- Due to chances of rainfall, threshing of harvested mustard crop is advised and keep the threshed crop to safer places.
- Under prevailing weather condition, sowing of summer vegetables and transplanting of tomato, brinjal and chillies from nursery to field is advised.

West Bengal

Amount of rainfall received over West Bengal is 13.0 mm (-73% large deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over West Bengal is below normal for week-1 and week-2.

- For the management of sheath blight, it is advised to apply Propiconazole 1ml/litre or Validamycin 2g/litre of water.
- To control the fruit drop in mango, it is advised to spray Borax @ 2g per litre of water or Planofix @ 2ml per 5 litre of water.

Odisha

Amount of rainfall received over Odisha is 16.5 mm (-56% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021

and 23 - 29 April 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Prevailing high temperature and intermittent thunder shower is congenial for Brown Plant Hopper and White Backed Plant Hopper infestation in paddy. To manage, it is advised to avoid excess use of nitrogenous fertilizer and spray Neem Based Pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre at the base of the plant.
- For the management of sucking pest in Okra, it is advised to spray Neem Oil 1500 ppm @ 600 ml/acre by mixing it in 200 litres of water.

Assam

Amount of rainfall received over Assam is 97.1 mm (-37% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Assam is normal for week-1 and below normal for week-2.

- Due to chances of rainfall, it is advised to plant fodder crops like, hybrid napier, setaria, guinea and para in upland areas.
- Because of chances of rainfall, it is advised to make provision for small drains at required interval in crop field to drain out the excess water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 60.8 mm (-58% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Himachal Pradesh is above normal for week-1 and normal for week-2.

- 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.
- Maintain room temperature of 25-28°C and relative humidity of 80-85 % for successful growing of mushrooms.
- For the management of downy mildew in garlic, it is advised to spray Diathane M 45 @ 2.5 g or Bavistine 1 g per litre.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 8.8 mm (-32% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Madhya Pradesh is below normal for week-1 and week-2.

- Due to hot and dry weather conditions, soil and residual mulching is advised to avoid evaporation losses in the fields.

- Under prevailing hot weather condition, it is advised to spray water on the sheds of poultry and dairy houses to reduce temperature of that area.

Gujarat

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Gujarat is normal for week-1 and above normal for week-2.

- Under prevailing hot and dry weather condition, it is advised to use straw, dry leaves, crop residue, etc as a mulch material in banana orchards for conservation of soil moisture.
- For the management of *Heliothis* infestation in *rabi* pigeon pea, it is advised to spray Indoxacarb 15.7 EC @ 10 ml in 10 litres water.

Punjab

Amount of rainfall received over Punjab is 9.9 mm (-68% large deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Punjab is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised for harvesting of early sown wheat crop and go for threshing of mustard crop.
- Because of rising temperature, it is advised to apply light and frequent irrigations to fruit bearing as well as newly planted fruit plants.

Uttarakhand

Amount of rainfall received over Uttarakhand is 14.3 mm (-80% large deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Uttarakhand is above normal for week-1 and normal for week-2.

- Under prevailing weather conditions, transplanting of chili, tomato, capsicum and brinjal seedlings in the main field is advised.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 15.7 mm (-2% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Andhra Pradesh is above normal for week-1 and below normal for week-2.

- Present weather condition is favourable for sucking pests incidence in papaya grown in Srikakulam, Vizianagaram, and West Godavari districts. To control, spraying of Imidachloprid

@ 0.3g/litre of water is advised.

- Under prevailing weather condition, farmers are advised to harvest groundnut and tie the harvested plants and dry them in the shade to ensure that the moisture content is 8-9 per cent.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 9.6 mm (-39% deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Chhattisgarh is below normal for week-1 and week-2.

- Due to the chances of light showers and cloudiness, outbreak of stem borer may increase in summer rice crop. Hence it is advised to install pheromone traps and light trap nearby the field or spray Rynexpyr 20% SC @ 150 g/ha or Fipronil 5% SC @ 1 litre/ha.
- Due to rise in maximum temperature, farmers are advised to cover animal and poultry sheds with gunny bags and maintain proper ventilation so that shed temperature is maintained as normal.

Bihar

Amount of rainfall received over Bihar is 1.8 mm (-84% large deficit) during 01 March 2021 - 15 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 April 2021 and 23 - 29 April 2021) on rainfall over Bihar is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of greengram and blackgram is advised. Recommended varieties (north Bihar) for mung bean are Pusa Vishal, Samrat, SML-668, HUM-16. Varieties for black gram are Sona and Pant Urd-19 and Pant Urd-31, Ultra and Navin.
- Monitoring of red pumpkin beetle is advised in cucurbitaceous vegetables. To control, dusting of Chlorpyrifos 2% dust @ 20 kg/ha near root of the plant 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.