



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 04 - 17 June 2021

Date of issue: 04 June 2021

Issued by

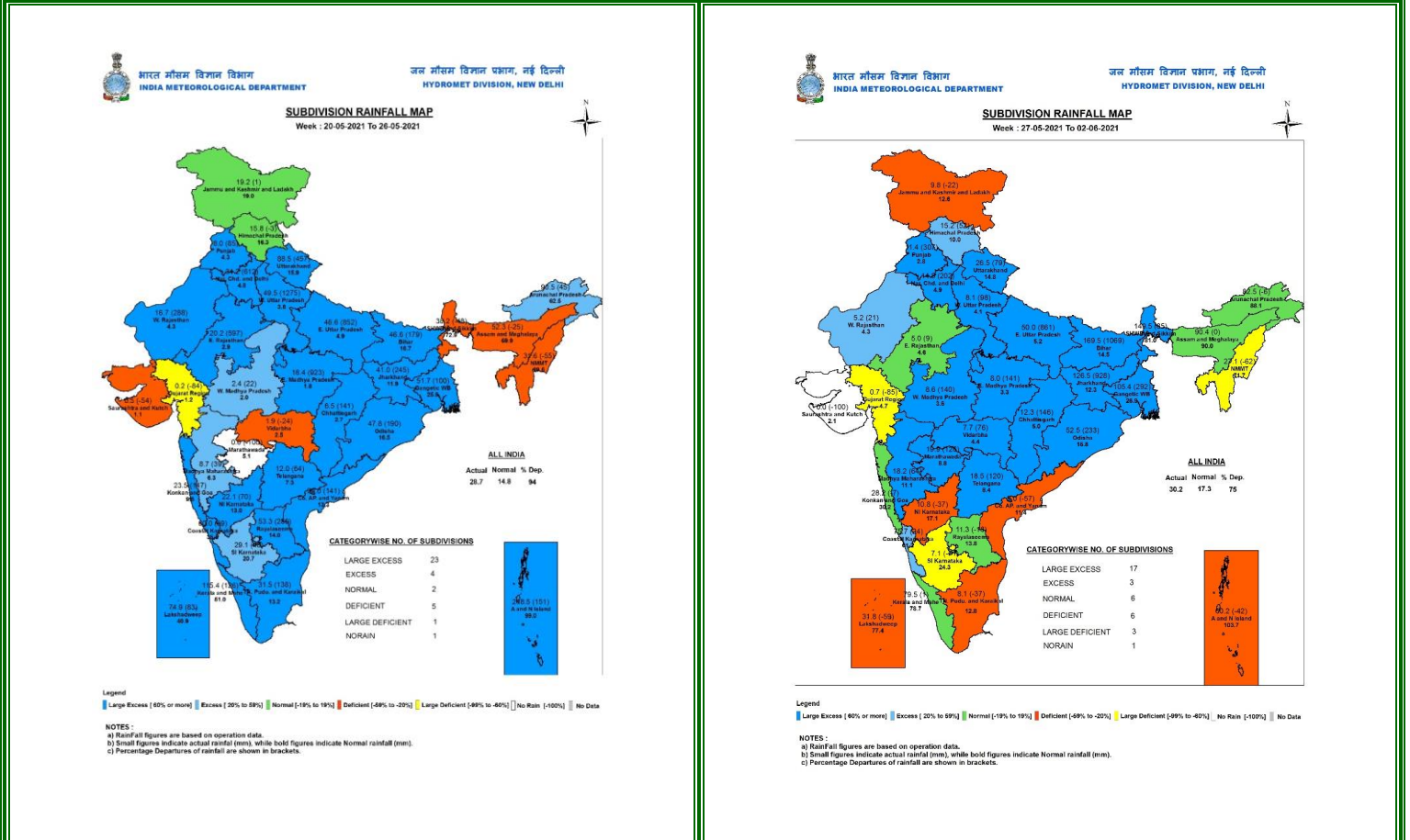
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (20th May to 2nd June, 2021)



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

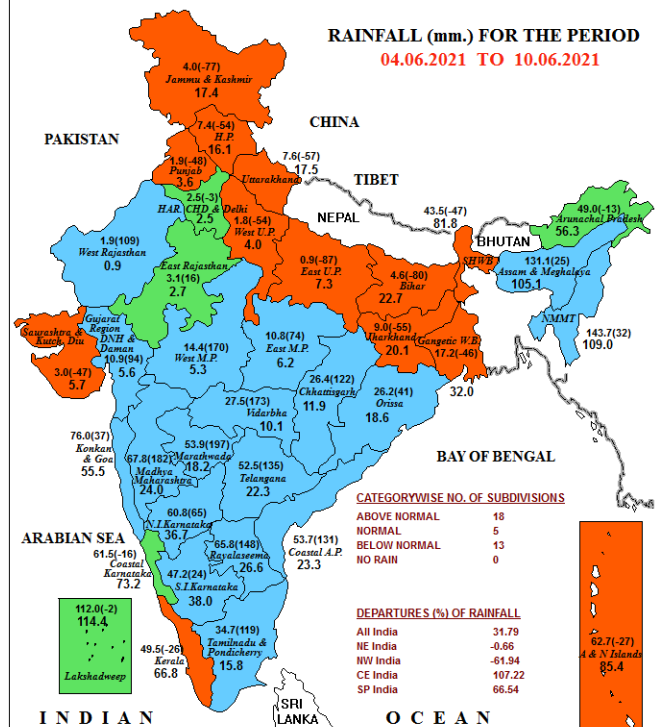
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC -02 June)

(4th to 17th June, 2021)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

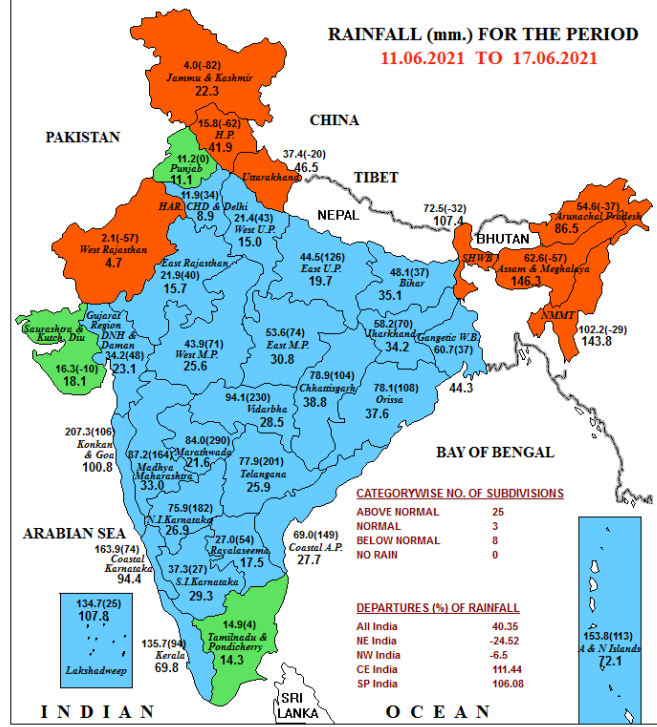


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

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.

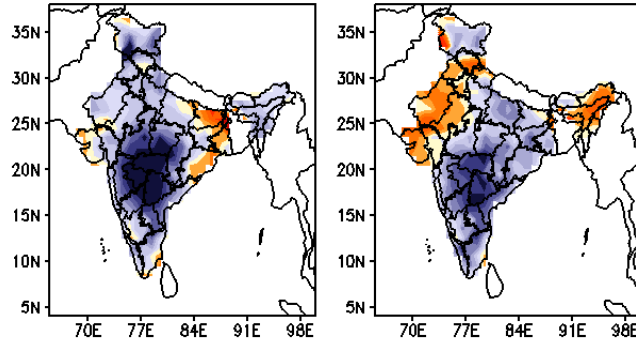
- **Week 1 (04.06.2021 to 10.06.2021):** West coast, adjoining Karnataka, Maharashtra, coastal Andhra Pradesh and adjoining regions will get the monsoon rainfall. Rainfall activity over north-eastern states also will continue in week 1.
- **Week 2 (11.06.2021 to 17.06.2021):** Monsoon activity will increase and move northward over the central Indian belt in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 02 June)
(4th to 17th June, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 04Jun–10Jun)

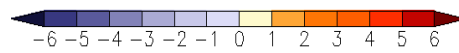
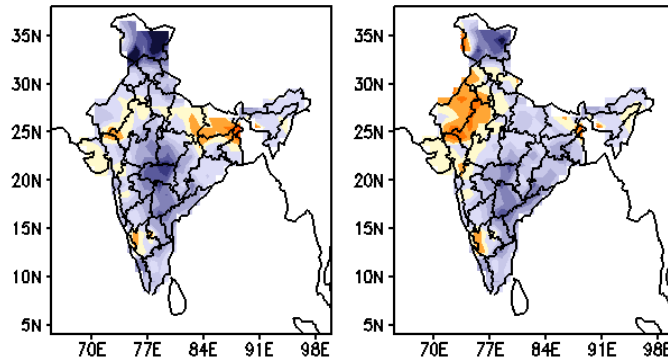
(Week2: 11Jun–17Jun)



MME forecast Tmin anomaly (Deg C)

(Week1: 04Jun–10Jun)

(Week2: 11Jun–17Jun)



Maximum Temperature (Tmax)

- **Week 1 (04.06.2021 to 10.06.2021) and Week 2 (11.06.2021 to 17.06.2021):** Over some parts of the state of Odisha, West Bengal, Jharkhand, Bihar & adjoining region in week 1 and over the entire northwest India & northeast India in week 2, Tmax will be slightly above normal, whereas, the Tmax will be below normal over most of India during the period week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (04.06.2021 to 10.06.2021) and Week 2 (11.06.2021 to 17.06.2021):** Warm anomalies over east Uttar Pradesh and adjoining Bihar region in week 1 and over northwest India in week 2, whereas, in most of India it is normal to slightly below normal.

Strategic Agricultural Planning based on rainfall during next two weeks till 17 June 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 23.1 mm (-36% deficit) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, there is a chance of sigatoka disease in Banana. As a precaution, it is advised to spray *Pseudomonas* @ 20 g per one litre of water. In case of severe attack, spray 1 ml Hexaconazole or 1 ml Propiconazole per one litre of water by mixing it with a sticker and spray on both the surface of the leaf.
- Under prevailing weather condition, there is a chance of downy mildew attack in vegetables. To manage, it is advised to spray Mancozeb 75 WP @ 3 g per litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 5.6 mm (-11% deficit) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) is above normal for week-1 and normal for week-2.

- Prevailing weather condition is favorable for Rhinoceros beetle incidence in coconut. To manage, it is advised to apply a mixture of Neem seed powder + sand (1:2) @150 g per palm or Neem seed kernel powder + sand (1:2) @150 g per palm in the base of the 3 innermost leaves in the crown.
- To protect banana orchards from high wind speed, it is advised to mount the soil around the base of the tree and give support by using Casuarinas poles.

Maharashtra

Rainfall received over Madhya Maharashtra is 17.8 mm (125% large excess), Marathwada is 21.3 mm (232% large excess), and Vidarbha is 5.9 mm (68% large excess) and Konkan region 28.0 mm (27% excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) over Konkan, Vidharbha, Madhya Maharashtra and Marathwada is above normal for week-1 and week-2.

Marathwada

- Under prevailing weather condition, sowing of pigeon pea crop is advised with recommended varieties BDN-2, BDN-708 (Amol), BDN-711, BDN-716, BSMR-736, BDN-716 and Godavari.
- Due to the chances of thunderstorm and rainfall, it is advised to harvest the matured fruit crops like watermelon and muskmelon and keep at safe place.

Vidharbha

- Due to chances of sudden rain/thunderstorm, it is advised to harvest the matured summer crops

and vegetables and keep at safe place.

Madhya Maharashtra

- After pre-monsoon shower, land preparation for sowing of *kharif* crop is advised.

Hisar

Amount of rainfall received over Hisar is 12.1 mm (709% large excess) during 01 June 2021 - 03 June 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) over Hisar is normal for week-1 and above 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.
- Under prevailing weather condition, farmers are advised to go for sowing of sorghum, maize and lobia as fodder crop.

Karnataka

Rainfall received during 01 June 2021 - 03 June 2021 over South Interior Karnataka is 14.9 mm (25% excess) and North Interior Karnataka is 21.0 mm (150% large excess). The extended range weather forecast (rainfall) for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

South Interior Karnataka

- After receiving sufficient rainfall, sowing of long duration crops like redgram is recommended with varieties BRG-1, 2, 4 & 5, TTB-7 and Castor crop with varieties DCH-9, 32 & 177.
- For the management of fruit fly damage in mango, spray of Carbaryl @ 4 g/litre of water is advised.

North Interior Karnataka

- After getting sufficient rainfall, sowing of *kharif* crops like greengram, sunflower, maize, Bt. cotton, redgram, bajra, sesamum, navane and groundnut (bunch type) is advised.
- 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 June 2021 - 03 June 2021 over East Uttar Pradesh 10.1 mm (273% large excess) and West Uttar Pradesh is 7.0 mm (180% large excess). The extended range weather forecast (rainfall) for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and West

Uttar Pradesh for week-2.

Eastern Uttar Pradesh

- Under prevailing weather condition, sowing of Dhaincha as green manure crop is advised.
- Inter-cultural operation is advised to check the evapotranspiration losses and better availability of nutrients to the crops.
- Due to prevailing high temperature, light irrigation at short interval in okra crop is advised.

Jammu

Amount of rainfall received over Jammu is 8.7 mm (43% excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to rise in temperature, it is advised to protect the young fruit plants from heat by providing thatches /cover and also ensure free circulation of air.
- Prevailing weather condition is congenial for fruit and shoot borer. To control, it is advised to spray mixture of Profenfos + Cypermethrin (4:40) @ 1ml/litre.

West Bengal

Amount of rainfall received over West Bengal is 14.8 mm (31% excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over West Bengal is below normal for week-1 and above normal for week-2.

- Because of heavy rainfall condition, it is advised to drain out excess water from the crop fields, and apply Gypsum @ 50-100 kg per bigha in the soil or organic manure like compost, vermicompost etc. to decrease the salinity in the soil.

Odisha

Amount of rainfall received over Odisha is 19.8 mm (142% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Odisha is above normal for week-1 and week-2.

- Prevailing increase in day temperature may cause bacterial wilt disease in tomato and brinjal. To protect, it is advised to spray Streptocycline @ 1g/10 litres of water in the root zone of the plants.
- For the management of infestation of shoot and fruit borer in okra crop, it is advised to spray Neem based pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre by mixing in 200 litres of water.

Assam

Amount of rainfall received over Assam is 48.2 mm (26% excess) during 01 June 2021 - 03 June 2021.

The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Assam is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers are advised to prepare nursery bed for sowing of Sali rice with recommended varieties Ranjit, Ranjit Sub 1, Bahadur, Satyaranjan, Basundhara, Mahsuri, Ketekijoha etc.
- For the management of infestation of stem borer, it is advised to apply Fenitrothion 50 EC solution, prepared by mixing 1.0 litre chemical in 200-250 litres of water for spraying in 7.5 bigha land.
- 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 15.1 mm (277% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- 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, sowing of improved varieties of root vegetables such as radish, turnip, carrot and spinach in lower hills of the state is advised.
- As temperature is at higher side, it is advised to make proper ventilation in poultry houses.

Uttarakhand

Amount of rainfall received over Uttarakhand is 13.1 mm (80% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, intercultural operations are advised in early sown *kharif* crops like Barnyard millet, cheti dhan etc.
- Regular monitoring of tomato crops against bacterial wilt is advised. If symptom is observed, immediate uproot the infected plants and drench remaining crops by Streptocyclin @ 1g/10litres of water.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 9.2 mm (156% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Under assured irrigation facilities, farmers are advised to irrigate the fields for preparing the raising bed rice nursery.
- Under prevailing weather condition, land preparation for the sowing of soybean, maize and groundnut crops is advised.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 7.5 mm (214% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 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 26.6 mm (309% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Andhra Pradesh is above normal for week-1 and 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.

Punjab

Amount of rainfall received over Punjab is 13.6 mm (1135% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Punjab is below normal for week-1 and normal for week-2.

- Due to prevailing hot weather conditions, it is advised to apply frequent irrigations to the fruit plants, sugarcane and vegetable crops as per requirement.
- Under prevailing weather condition, it is advised to harvest fruits of okra, bottle gourd, cucumber, bittergourd, spongegourd, tinda, and summer squash etc at green and tender stage.

Gujarat

Amount of rainfall received over Gujarat is 2.5 mm (-41% deficit) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 -

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

- Under prevailing weather condition, land preparation for the planting of cucurbitaceous crop is advised.
- Due to summer season, it is advised to provide drinking water to the animals round the clock and adequate quantity of balanced ration.

Bihar

Amount of rainfall received over Bihar is 13.5 mm (145% large excess) during 01 June 2021 - 03 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 June 2021 and 11 - 17 June 2021) on rainfall over Bihar is below normal for week-1 and above normal for week-2.

- Due to rainy weather condition and sufficient moisture in soil, it is advised to prepare nursery for long duration rice with recommended varieties Rajshri, Rajendra Mansuri, Rajendra Sweta, Kishori, Swarna, Swarna Sub-1, BPT-05204 and Satyam.

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.