



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 11 - 24 June 2021

Date of issue: 11 June 2021

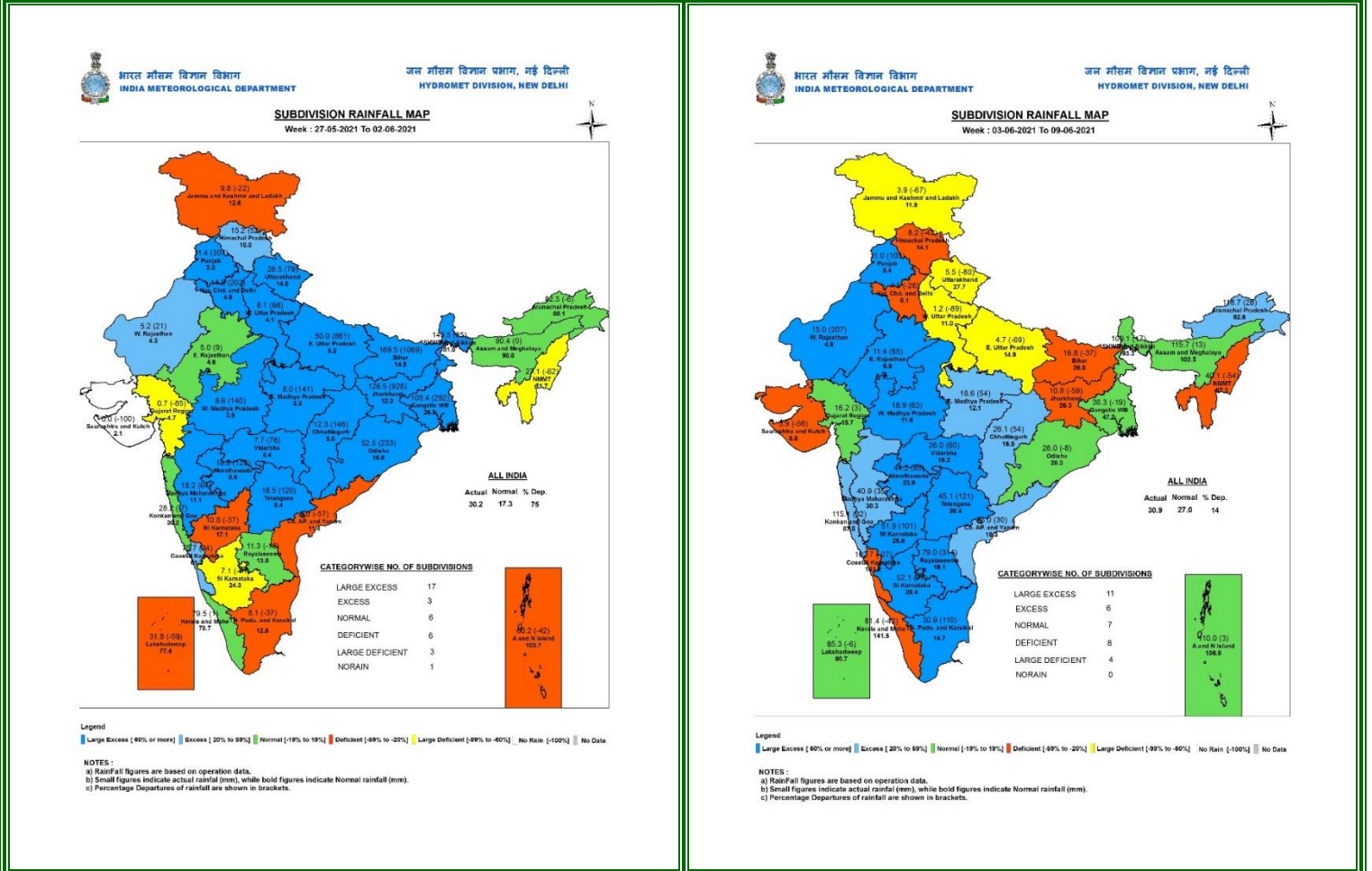
Issued by

**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

(27th May to 9th June, 2021)



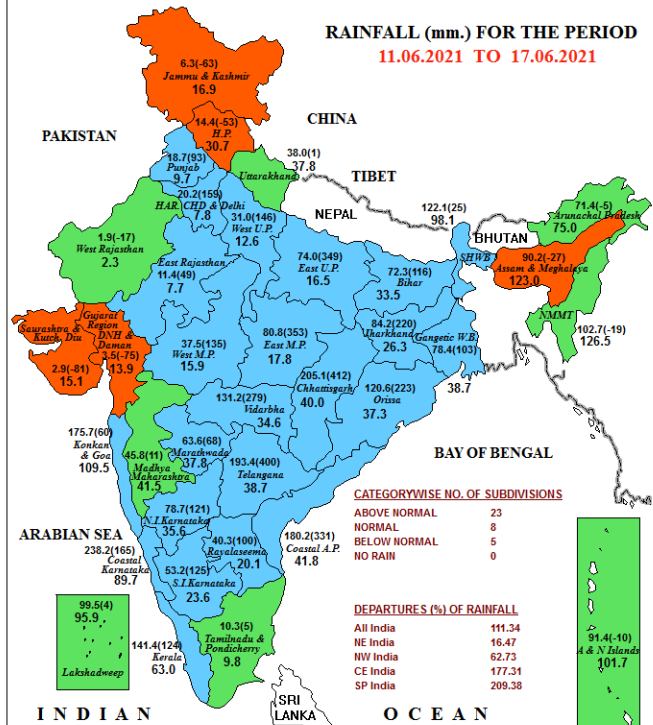
- Normal or above normal rainfall occurred in both the weeks in Punjab, Rajasthan, Odisha, Sub -Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, and Rayalaseema.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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC -09 June) (11th to 24th June, 2021)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

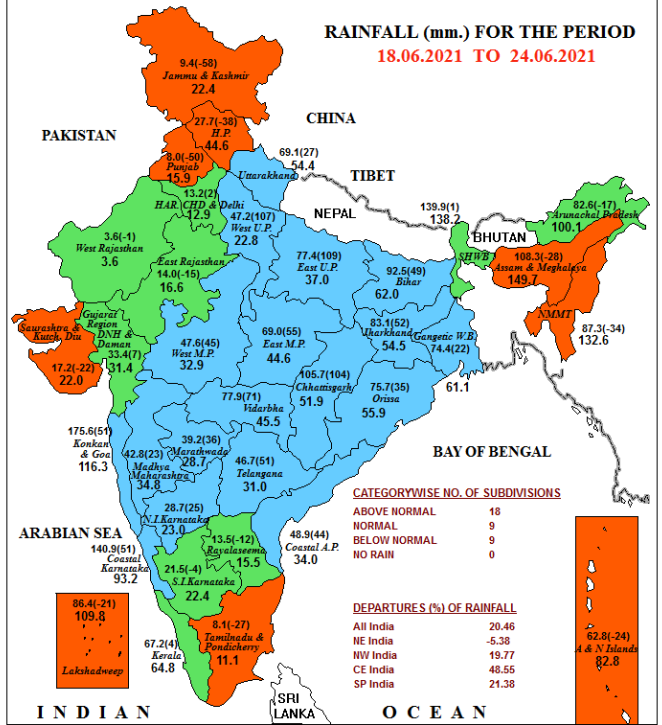


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

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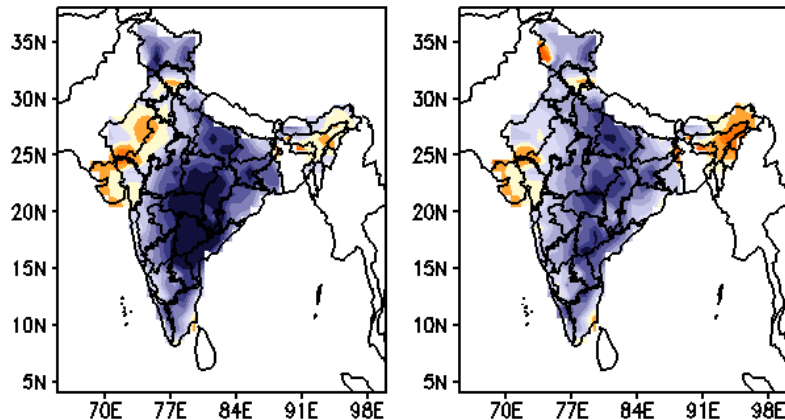
- Week1 (11.06.2021 to 17.06.2021) and Week 2 (18.06.2021 to 24.06.2021):** i) West coast, adjoining Karnataka, Maharashtra and Kerala coast will get above normal rainfall. Also associated with the system, Odisha, Coastal Andhra Pradesh, Chhattisgarh, Madhya Pradesh, Jharkhand, Bihar, east Uttar Pradesh, Gangetic West Bengal will get above normal rainfall in week 1. Thus, most of the central India will be under the influence of monsoon in week 2.
 - ii) Monsoon rainfall will slightly decrease in week 2 over central India. However, above-normal rainfall will continue over Bihar, Jharkhand, Chhattisgarh, Uttar Pradesh and adjoining region in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 09 June)
(11th to 24th June, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 11Jun–17Jun)

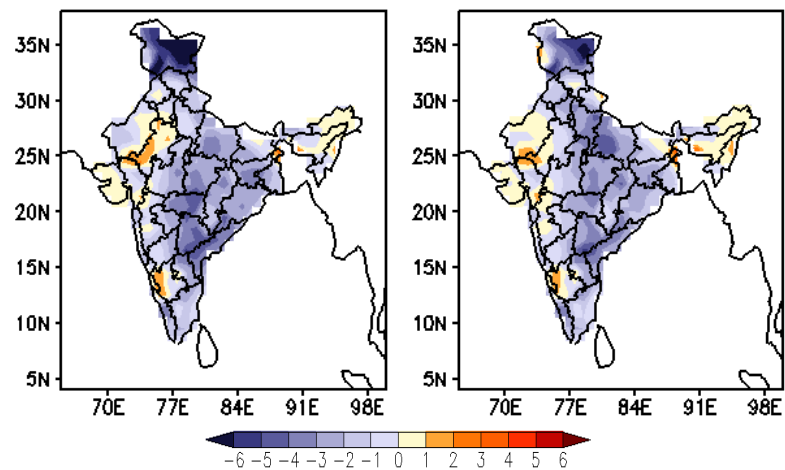
(Week2: 18Jun–24Jun)



MME forecast Tmin anomaly (Deg C)

(Week1: 11Jun–17Jun)

(Week2: 18Jun–24Jun)



Maximum Temperature (Tmax)

- **Week 1 (11.06.2021 to 17.06.2021) and Week 2 (18.06.2021 to 24.06.2021):** Pockets of northwest India and Northeast India will have above normal Tmax in week 1 and week 2 whereas; over most of the remaining regions Tmax will be below normal.

Minimum Temperature (Tmin)

- **Week 1 (11.06.2021 to 17.06.2021) and Week 2 (18.06.2021 to 24.06.2021):** Warm anomalies over parts of northwest India likely in week 1 and week 2. Also, over parts of Northeast India, above normal Tmin will prevail during the period. Mostly below normal Tmin likely over rest of India.

Strategic Agricultural Planning based on rainfall during next two weeks till 24 June 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 112.9 mm (-43% deficit) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) is above normal for week-1 and normal for 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 vegetables. 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 33.3 mm (53% excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) is normal for week-1 and below 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 59.5 mm (41% excess), Marathwada is 73.0 mm (95% large excess), and Vidarbha is 58.4 mm (119% large excess) and Konkan region 224.3 mm (64% large excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) over Konkan, Vidharbha, and Marathwada is above normal and normal over Madhya Maharashtra for week-1 and over Konkan, Vidharbha, Madhya Maharashtra and Marathwada is above normal for week-2.

Marathwada

- Intercultural operation is advised in mango orchard to reduce infestation of termites.
- Vaccination in animals against *Hemorrhagic septicemia* and Blackquater disease is advised.

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

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

Konkan

- Due to the chances of rainfall with heavy wind, it is advised to provide bamboo stick support to newly planted areca palm plants.
- Due to chances of high rainfall and wind speed, it is advised to make arrangement to drain out excess water from vegetable crop nursery.

Hisar

Amount of rainfall received over Hisar is 18.6 mm (86% large excess) during 01 June 2021 - 11 June 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) over Hisar is above normal for week-1 and 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 - 11 June 2021 over South Interior Karnataka is 56.6 mm (26% excess) and North Interior Karnataka is 58.2 mm (58% excess). The extended range weather forecast (rainfall) for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka for 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 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.

North Interior Karnataka

- Due to rainy weather condition, 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 - 11 June 2021 over East Uttar Pradesh 27.7 mm (38% excess) and West Uttar Pradesh is 16.1 mm (12% excess). The extended range weather forecast (rainfall) for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

Western Uttar Pradesh

- Due to chances of rainfall, farmers are advised to sow medium duration rice with recommended varieties Narendra dhan-359, Malviya dhan-36, Narendra dhan-2064, Narendra dhan-2026. Hybrid varieties viz., Arize -6444, 6201, PHB-71, KRH-2, PRH-10 and JKRH-401 etc.
- 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

- Due to prevailing high temperature, light irrigation at short interval in okra crop is advised.
- Inter-cultural operation is needed to check the evapotranspiration losses and proper utilization of nutrient to the crop.

Jammu

Amount of rainfall received over Jammu is 12.9 mm (-38% deficit) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to the presence of sufficient soil moisture, farmers are advised to go for direct sowing of rice crop.
- Under prevailing weather condition, it is advised to prepare land for the sowing of rainy season bitter gourd, sponge gourd and bitter gourd.

West Bengal

Amount of rainfall received over West Bengal is 64.7 mm (-8% deficit) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over West Bengal is above normal for week-1 and week-2.

- Because of rainy weather condition, there is a chance of fungal disease in jute crop. To prevent, it is advised to spray Copper oxychloride @ 2.5g/litre of water or Carbendazim @ 2 g/litre of water.
- Under prevailing weather condition, farmers are advised to prepare the nursery for chilli and brinjal crop.

Odisha

Amount of rainfall received over Odisha is 53.8 mm (19% excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 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.
- 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 166.2 mm (4% excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over Assam is below normal for week-1 and 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 25.2 mm (9% excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 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, sowing of improved varieties of root vegetables such as radish, turnip, carrot and spinach in lower hills of the state is advised.

Uttarakhand

Amount of rainfall received over Uttarakhand is 40.5 mm (-2% deficit) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over Uttarakhand is normal for week-1 and above 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 59.6 mm (115% large excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Under prevailing weather condition, mulching is advised in ginger and turmeric crops

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 62.4 mm (223% large excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 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 86.0 mm (209% large excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over Andhra Pradesh is above normal for week-1 and normal for week-2.

- 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-6, Kadiri-9, Kadiri Harithandhra, Anantha, Greeshma, Narayani, Abhaya and Dharani.

Punjab

Amount of rainfall received over Punjab is 25.1 mm (159% large excess) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June

2021 and 18 - 24 June 2021) on rainfall over Punjab is above normal for week-1 and below 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.
- It is also advised to harvest fruits of okra, bottle gourd, cucumber, bitter gourd, sponge gourd, tinda, and summer squash etc at green and tender stage.

Gujarat

Amount of rainfall received over Gujarat is 19.4 mm (-10% deficit) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 June 2021) on rainfall over Gujarat is above normal for week-1 and week-2.

- For the management of nematodes in pomegranate it is advised to apply *Paecilomyces lilacinus* @ 20 kg/ha at the beginning of monsoon and thereafter at every 6 month interval.
- 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 37.3 mm (normal rainfall) during 01 June 2021 - 11 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 June 2021 and 18 - 24 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 varieties Rajshri, Rajendra Mansuri, Rajendra Sweta, Kishori, Swarna, Swarna Sub-1, BPT-05204 and Satyam.
- 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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