



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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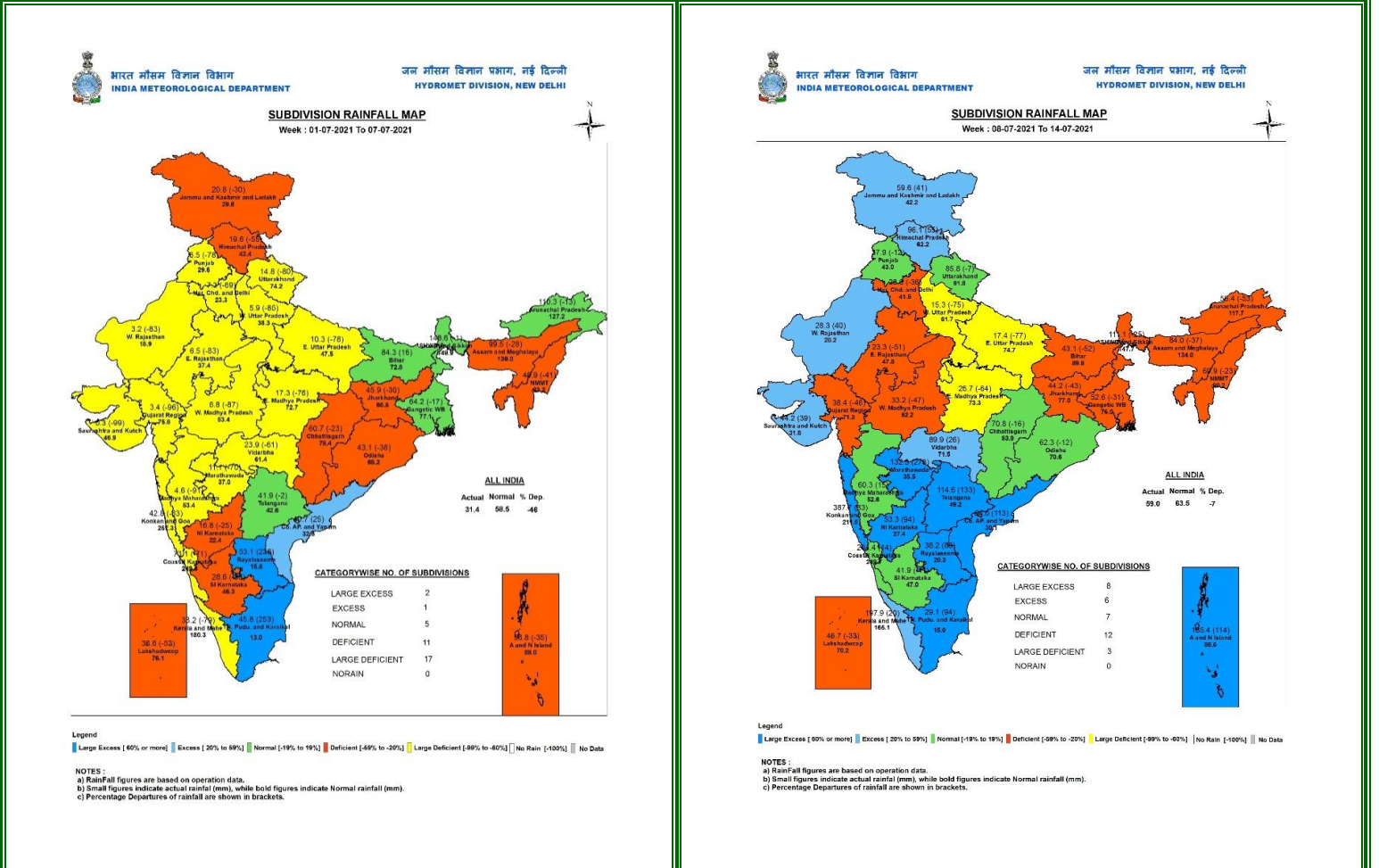
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

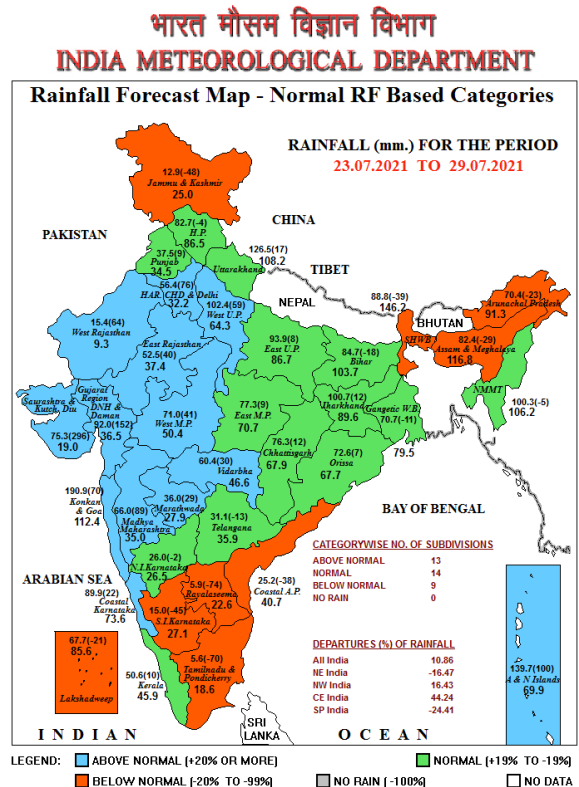
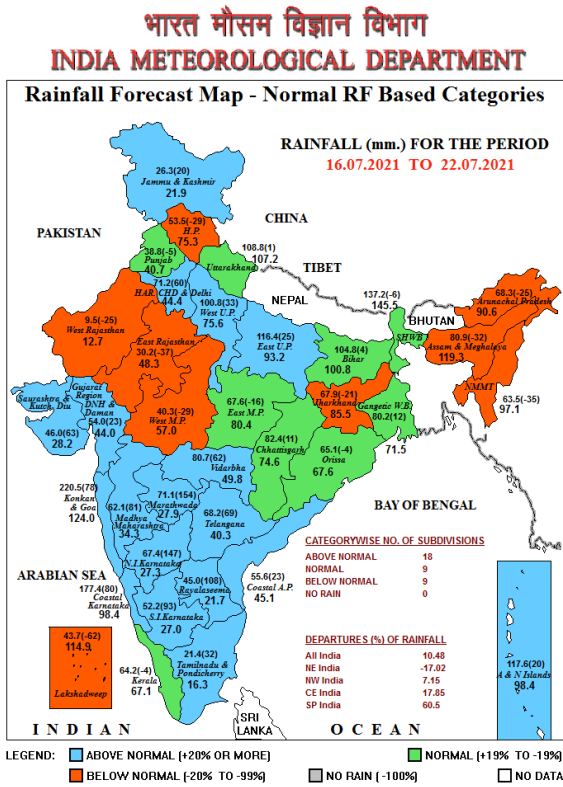
Realized Rainfall (1st to 14th July, 2021)



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

Extended Range Forecast System

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



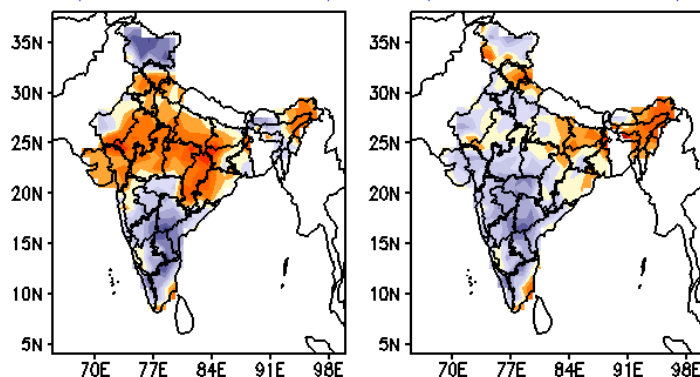
- **Week1 (16.07.2021 to 22.07.2021):** Improvement in rainfall over central and western coastal parts of India and also over parts of northern India (Uttar Pradesh and adjoining Haryana region). However, it will be below normal over northeast India.
- **Week 2 (23.07.2021 to 29.07.2021):** Northeast Indian region, Jammu & Kashmir region and south-east coastal regions will have below normal rainfall. The remaining parts will have above normal rainfall.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 14 July)
(16th to 29th July, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 16Jul–22Jul)

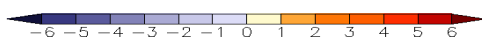
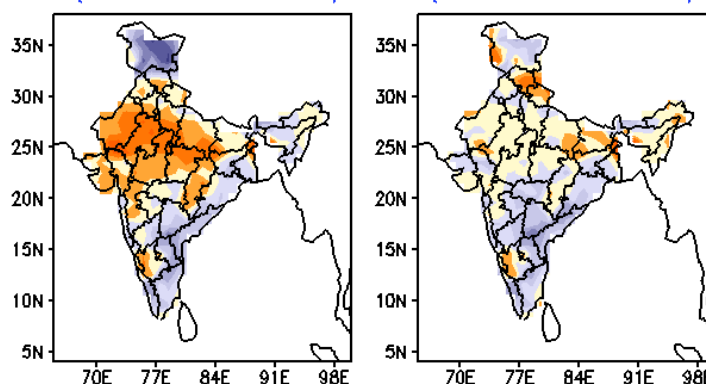
(Week2: 23Jul–29Jul)



MME forecast Tmin anomaly (Deg C)

(Week1: 16Jul–22Jul)

(Week2: 23Jul–29Jul)



Maximum Temperature (Tmax)

- **Week 1 (16.07.2021 to 22.07.2021):** Mainly below normal Tmax likely in week 1 over southern parts of India. However, above normal Tmax over northern and Northwest India and also over central India (Odisha, Chhattisgarh, Madhya Pradesh and Gujarat regions).
- **Week 2 (23.07.2021 to 29.07.2021):** Warm anomalies likely over parts of northeast and adjoining eastern India, whereas, it will be slightly below normal.

Minimum Temperature (Tmin)

- **Week 1 (16.07.2021 to 22.07.2021) and Week 2 (23.07.2021 to 29.07.2021):** Mostly close to normal Tmin patterns will be over southeastern coastal regions, whereas, it will be above normal over most parts of northern and north western parts of India.

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

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 739.3 mm (-29% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) is normal for week-1 and week-2.

- Due to increase in rainfall, there is a chance of rhizome rot in banana in water logged areas. To prevent, it is advised for proper drainage facility and drenching with *pseudomonas* solution @ 20 g per litre in basal part of the banana plant.
- During rainy season, there is a chance of Anthracnose disease in cowpea and chilly. As a prophylactic measure, it is advised to apply 1% Bordeaux mixture or spray *Pseudomonas* @ 20 g per litre

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 148.5 mm (75% large excess) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) is above normal for week-1 and below normal for 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 favourable for pod bug incidence in black gram and green gram. To manage, it is advised to apply Dimethoate 30% EC @ 500 ml/ha or Methyl demeton 25% EC @ 500 ml/ha or Imidacloprid 17.8 SL @ 100-125 ml/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 285.2 mm (3% excess), Marathwada is 331.6 mm (50% excess), Vidarbha is 332.0 mm (3% excess) and Konkan region 1559.7 mm (26% excess) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Konkan, Madhya Maharashtra, Vidharbha and Marathwada is above normal for week-1 and week-2.

Marathwada

- Due to rainy weather condition, management practices are advised to drain out excess water from fruit orchards and crop fields.

Vidharbha

- Due to excess rainfall, it is advised to drain out excess water from orchards, standing crops and vegetable fields.
- Prevailing weather condition is congenial for citrus canker in acid lime. To manage, it is advised to prune the affected leaves, branches and spray Copper oxychloride 180 g with Streptocycline

@ 6 g in 60 litres of water.

Madhya Maharashtra

- Under prevailing weather condition, irrigation to *suru* and *ratoon* sugarcane is advised with alternate furrows for saving water.

Konkan

- Due to chances of heavy rainfall, it is advised to transplant the finger millet and proso millet seedlings from nursery to the main fields.
- Under prevailing weather condition, there is possibility for incidence of fruit fly in cucurbitaceous crops. To control, it is advised to install cue lure 'Rakshak' trap @ 2 nos. per acre at the time of initiation of flowering.

Hisar

Amount of rainfall received over Hisar is 104.1 mm (-18% deficit) during 01 June 2021 - 16 July 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Hisar is above normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to prepare the field for rice transplanting and apply need-based irrigation in direct seeded rice.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop.

Karnataka

Rainfall received during 01 June 2021 - 16 July 2021 over South Interior Karnataka is 275.7 mm (9% excess) and North Interior Karnataka is 241.9 mm (46% excess). The extended range weather forecast (rainfall) for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and normal over North Interior Karnataka and above normal over South Interior Karnataka for week-2.

North Interior Karnataka

- Under prevailing weather condition, sowing of bajra, pigeonpea, groundnut (bunch type), green gram, maize, Bt. cotton, chilli, onion, sesamum, and navane is advised.
- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

Uttar Pradesh

Rainfall received during 01 June 2021 - 01 July 2021 over East Uttar Pradesh 232.8 mm (-8% deficit) and West Uttar Pradesh is 104.8 mm (-46% deficit). The extended range weather forecast (rainfall) for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and normal over East Uttar Pradesh and above normal over West

Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under prevailing weather condition, sowing of long duration pigeonpea varieties is advised. Recommended varieties are Bahar, Amar, Narendra Arhar-1, Azad, Pusha-9 and Narendra Arhar-2.
- This is the best time to go for sowing of green gram. Recommended varieties are Pant moong-1, 3, 4, Narendra moong-1, 4, PDM-11, Malveeya jyoti, Samrat, Malveeya janchetna, Malveeya janpriya, Malveeya jagrati, Asha, Meha, MH-2-15 and TM-9937.

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.
- Sowing of *kharif* vegetables and nursery of brinjal, chilli and cauliflower is also advised.

Jammu

Amount of rainfall received over Jammu is 119.4 mm (-25% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Jammu is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers may go for sowing of maize crop with recommended varieties Vivek-25, Vivek QOM-9, HM-5 and HQPM-1.
- Under prevailing weather, transplanting of Basmati rice from nursery to main field is advised.

West Bengal

Amount of rainfall received over West Bengal is 488.0 mm (13% excess) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over West Bengal is normal for week-1 and week-2.

- For the management of pumpkin beetle in bitter gourd, it is advised to apply Fenvalerate 0.4% dust @ 10 kg/acre.

Odisha

Amount of rainfall received over Odisha is 292.9 mm (-23% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Odisha is normal for week-1 and week-2.

- For the management of top shoot borer infestation in sugarcane, it is advised to spray Fipronil 5% SC @ 600 ml/acre or Profenophos 50% EC @ 400 ml/acre by mixing it in 200 litres of water.
- Prevailing weather is optimum for sowing of sesame crop. Recommended high yielding

varieties are Prachi, Kalika, Kanak, and Vinayak.

Assam

Amount of rainfall received over Assam is 658.6 mm (-18% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Assam is below normal for week-1 and week-2.

- To prevent lodging in sugarcane crops during rainy season, it is advised to provide mechanical support to the canes by using bamboo sticks or by tying up the leaves of 4-5 canes together.
- Prevailing high humidity and rainy weather condition is congenial for incidence of fruit fly and leaf hopper in gourds. As a preventive measure, it is advised to spray solution of Emamectin Benzoate @ 4.5g with 100g jaggery mixed in 10 litres of water.

Uttarakhand

Amount of rainfall received over Uttarakhand is 370.0 mm (-1% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Uttarakhand is normal for week-1 and week-2.

- During rainy weather condition, it is advised to provide adequate drainage in standing crop fields to avoid water logging.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 379.8 mm (-1% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Chhattisgarh is normal for week-1 and week-2.

- Due to chances of rainfall, farmers are advised to go for sowing of rice in nursery beds. Soybean, pigeon pea and maize fields should be provided with proper drainage channel facilities.
- If excess rain is there, it is advised to drain out water from orchards and vegetable fields.
- Farmers are also advised to vaccinate the goat against the PPR disease.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 246.5 mm (-21 deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Madhya Pradesh is normal for week-1 and week-2.

- Due to deficit rainfall, farmers are advised to follow cultural practices like weeding, soil mulching, etc. for conservation of soil moisture.
- Sugarcane plants should be tied to prevent from lodging due to strong winds.

Gujarat

Amount of rainfall received over Gujarat is 186.4 mm (-39% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Gujarat is above normal for week-1 and week-2.

- Under prevailing weather condition, inter-cultural and weeding operations are advised in pearl millet and in timely sown pigeon pea crops.

Bihar

Amount of rainfall received over Bihar is 483.3 mm (36% excess) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Bihar is normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised to prepare the bunds around their fields to collect rain water for paddy transplanting.
- Prevailing weather conditions are congenial for planting of mango saplings in the orchards. Recommended varieties for North Bihar are Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu, Langra, Hemsager, Krishnabhog, Aman Dasahri.

Punjab

Amount of rainfall received over Punjab is 96.0 mm (-29% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Punjab is normal for week-1 and week-2.

- Under prevailing weather condition, transplanting of Basmati rice is advised with recommended varieties viz., CSR 30, Basmati 370, Basmati 386 and Pusa Basmati 1509.
- Due to chances of rainfall, farmers are advised do not to irrigate cotton, sugarcane and maize crops.
- To manage the fruit and shoot borer attack in brinjal crop, it is advised to spray 80 ml Coragen 18.5 SC or 80 g Proclaim 5SG in 100-125 litres of water per acre.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 235.0 mm (106% large excess) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Andhra Pradesh is above normal for week-1 and below normal for week-2.

- Utilizing the available soil moisture, farmers are advised to take up castor sowing and select the varieties like Haritha, Jyothi, Kranthi, Jwala, GCH-4, DCH-177, DCH-519 and PCH-111 in Ananthapuramu, Kurnool and Prakasam districts.
- In rainfed areas, the farmers are advised to clean the water channels and connect to farm ponds

for efficient collection and conservation of runoff water in farm ponds.

Jharkhand

Amount of rainfall received over Jharkhand is 360.4 mm (-1% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Jharkhand is below normal for week-1 and normal for week-2.

- Prevailing weather is conducive for the attack of Tikka disease in groundnut crop. To manage, it is advised to spray fungicide Kavach @ 2 g/litre of water during clear weather.

Rajasthan

Amount of rainfall received over Rajasthan is 96.3 mm (-42% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Rajasthan is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to take up the sowing of moth, guar and green gram. Recommended improved varieties of moth are RMO-257, RMO-225, RMO-425, RMO-423, and RMO-40, for guar HG-75, RGC-936, RGC-197, RGC-1017, RGC-1002, RGC-1003 and RGC-986 and for green gram: SML-668, MUM-2, RMG-62, RMG-492 and RMG-268.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 206.4 mm (-9% deficit) during 01 June 2021 - 16 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (16 - 22 July 2021 and 23 - 29 July 2021) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- It is optimum time to resume picking in tea at 8-9 days intervals to maintain the quality and productivity.
- In mid-hill region, root slips of setaria and napier grass may be planted in grasslands.
- Due to rise in temperature, it is advised to maintain proper ventilation in poultry houses.

Disclaimer:

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