



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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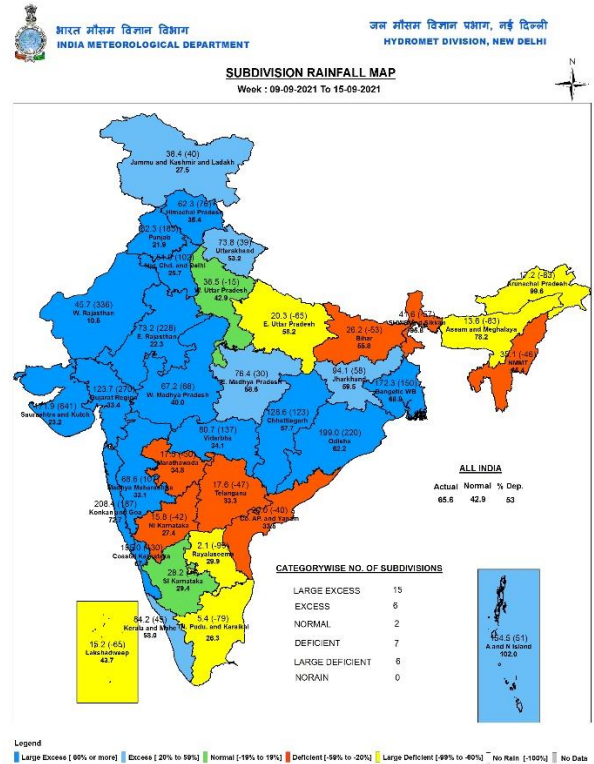
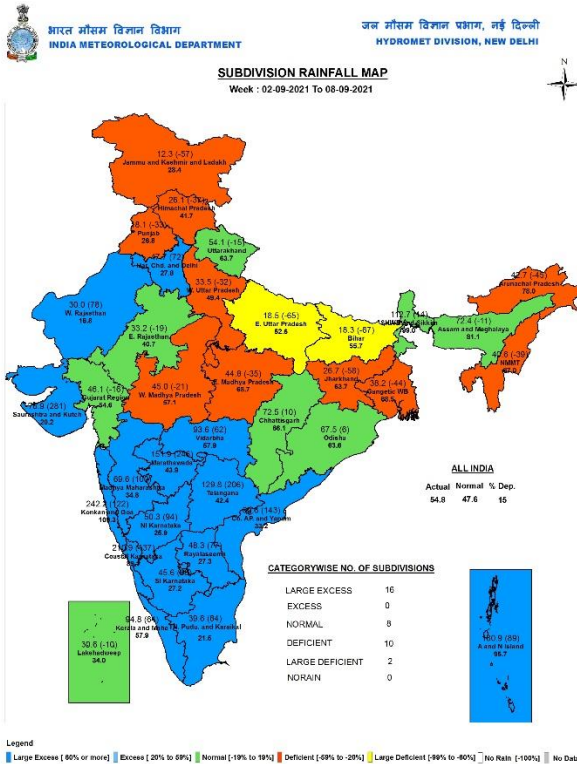
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

**India Meteorological Department (IMD),
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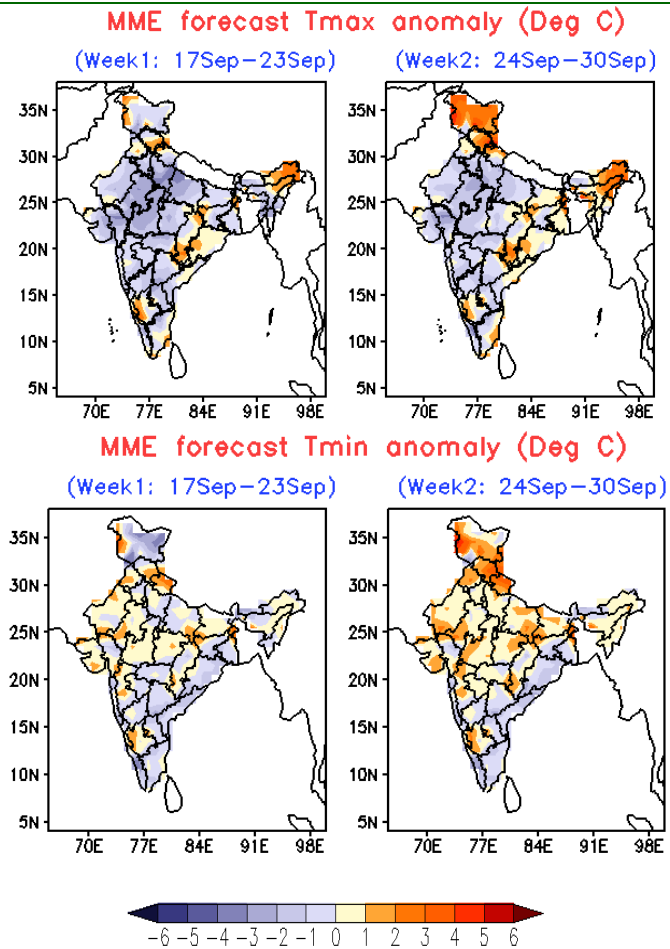
Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (2nd to 15th Sept., 2021)



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

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks(IC – 15 Sept.)
(17th to 30th Sep. 2021)**



Maximum Temperature (Tmax)

- **Week 1 (17.09.2021 to 23.09.2021) and Week 2 (24.09.2021 to 30.09.2021):** Mostly below normal Tmax likely over India except some parts of north eastern and eastern India in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (17.09.2021 to 23.09.2021) and Week 2 (24.09.2021 to 30.09.2021):** Positive Tmin anomaly likely over northwest and adjoining parts of north and central India in week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 30 September 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1613 mm (-17% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) is below normal for week-1 and normal for week-2.

- It is the optimum time for cultivating cool season vegetables like cabbage, cauliflower, onion carrot and beetroot. The varieties of cabbage like *NS-43*, *NS-183* and *NS-160* and; of cauliflower like *NS-60*, *Basanth* and *Pusa Meghna* and; onion like *Agri found dark red*, *Arka Niketan*, *Arka Kalyan* and *N-53* and for carrot are *Pusa Rudhira*, *Super Kuroda* and *Madhur* and; beetroot like *Indam Ruby Queen* are most suitable for the climate of Kerala.
- During rainy season, to avoid the spreading of rhizome rot in ginger, it is advised to apply mixture of 15 g bleaching powder and 250 g lime in to the basin of three meter square bed.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 329 mm (18% excess) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) is above normal for week-1 and week-2.

- Prevailing weather condition is congenial for sucking pest infestation in irrigated summer cotton. To manage, it is advised to spray Methyl demeton 25 EC 500ml/ha or Dimethoate 30 EC 500ml/ha under clear weather conditions.
- Prevailing weather condition is favourable for hairy caterpillar and collar rot in moringa. It is advised to collect and destroy diseased parts of the plant and spray Mancozeb @ 2g/litre of water under clear weather conditions.

Maharashtra

Rainfall received over Madhya Maharashtra is 768 mm (13% excess); Marathwada is 783 mm (30% excess); Vidarbha is 869 mm (-3% deficit) and Konkan region is 3304 mm (21% excess) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Konkan is above normal and over Marathwada, Madhya Maharashtra and normal over Vidarbha for week-1; above normal over Konkan, Vidarbha, Marathwada and Madhya Maharashtra for week-2.

Marathwada

- Because of rainy, humid and cloudy weather condition during last week, leaf spot disease may observe in turmeric crop. To manage, it is advised to spray Azoxystrobin 18.2% + Difenoconazole 11.4% @ 10 ml + 5 ml sticker per 10 litres of water during clear weather condition.
- Because of rainy weather condition during last week, farmers are advised to remove excess

water from the different field crops and horticultural crops.

Vidarbha

- Prevailing weather condition is congenial for wilting/blight in pigeon pea. To control, drenching with Copper oxychloride 50% WP @ 25 g or Captan 75% WP @ 25 g in 10 litres of water under clear weather conditions.
- For the management of citrus psylla in orange orchard, spraying of Thiamethoxam 25% WG @ 1 g or Imidacloprid 17.8% @ 1.5-2.0 ml per 10 litres of water during clear weather.

Madhya Maharashtra

- For sowing of *rabi* sorghum selection of improved varieties according to type of soil is advised. Recommended varieties for shallow soil are *Phule Anuradha*, *Phule Mauli*, for medium soil are *Phule Mauli*, *Phule Suchitra*, *Phule Chitra*, *Parbhani Moti* and *Maldandi M-35-1* for deep soil *Phule Vasudha*, *Phule Yashoda* and *CSV-22* and; for irrigated condition varieties are *Phule Vasudha*, *Phule Revati*.
- For the management of leaf eating caterpillar in mango, farmers are advised to spray Chlorpyrifos + Cypermethrin @ 2 ml per litres of water during clear weather conditions.

Hisar

Amount of rainfall received over Hisar is 521 mm (22% excess) during 01 June - 16 September 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Hisar is above normal for week-1 and week-2.

- Prevailing high humidity is congenial for infestation of sucking pest in cotton. To manage, farmers are advised to spray Nimbecidine @ 1 litre mixed with 250 litres water per acre during clear weather conditions.
- Due to humid weather conditions, farmers are advised to keep animals under well ventilated place and provide plenty of clean drinking water and green forage as per requirement.

Karnataka

Rainfall received during 01 June - 16 September 2021 over South Interior Karnataka is 664 mm (9% excess) and North Interior Karnataka is 541 mm (29% excess). The extended range weather forecast (rainfall) for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and above normal over North Interior Karnataka and below normal over South Interior Karnataka for week-2.

North Interior Karnataka

- Under prevailing weather condition, farmers are advised to prepare soil and water conservation structures in the lands spared for *rabi* sowing.
- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter

disease (BC vaccination) and *Haemorrhagic septicaemia*.

South Interior Karnataka

- For the management of wilt diseases in redgram, it is advised Drenching Carbendazim 50 WP 2 g/litre of water.
- Under prevailing weather condition sowing of ragi, maize, cowpea, black gram, foxtail millet, and little millet is advised.

Uttar Pradesh

Rainfall received during 01 June - 16 September 2021 over East Uttar Pradesh is 816 mm (4% excess) and West Uttar Pradesh is 544 mm (-21% deficit). The extended range weather forecast (rainfall) for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

Western Uttar Pradesh

- Under prevailing weather, sowing of early potato is advised with recommended varieties are *Kufri chandramukhi* and *Kufri ashoka*.
- To shoot borer or leaf roller in pearl millet, it is advised to apply 2% dust of Phenthoate @ 25 to 30 kg/ha or Chlorantraniliprole 18.5% SC @ 150ml/ha with 500 to 600 litres of water during clear day.

Jammu

Amount of rainfall received over Jammu is 383 mm (-27% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Jammu is below normal for week-1 and week-2.

- Direct sowing of vegetables like methi, spinach beet, coriander, radish, carrot, beet root and spinach can be taken up after the receipt of sufficient rain.
- For the management of jassids and other sucking pest in maize crop, it is advised to spray Imidacloprid @ 0.3ml/litre of water is advised.

West Bengal

Rainfall received during 01 June - 16 September 2021 over Gangetic West Bengal is 1275 mm (20% excess) and Sub-Himalayan West Bengal is 1746 mm (-4% deficit). The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Gangetic West Bengal and Sub-Himalayan West Bengal is normal for week1 and; Gangetic West Bengal is normal and Sub-Himalayan West Bengal below normal for week-2.

- For the management of bacterial leaf blight in rice, it is advised to spray Hexaconazole @ 1.5 ml/litre along with Plantomycin @1.0 g/litre.

Odisha

Amount of rainfall received over Odisha is 947 mm (-27% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Odisha is below normal for week-1 and week-2.

- To manage panama wilt, it is advised to select disease free planting material and resistant cultivar like *Bantal*, *Robusta*, *Champa*, *Kabuli* etc.
- Deficit in rainfall leads to infestation of *Epilachna* beetle in cucurbit crops. To manage, it is advised to spray neem-based pesticide i.e., Neem Oil 1500 ppm @ 3 ml/litre of water at early stage of infestation.

Assam

Amount of rainfall received over Assam is 1327 mm (-20% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Assam is normal for week-1 and week-2.

- Due to favourable weather condition, infestation of stem borer may be observed in the paddy. It is advised that as soon as the symptoms of dead heart was noticed in more than 5% of the cropped area, farmers may go for spraying of Quinalphos 25 EC @ 1.0ml/litre of water during rain free weather.
- Due to moderate to rather heavy rainfall in the past week, water stagnation in the arhar field may occur. Farmers are advised for renovations of drainage channel in the crop fields.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 1032 mm (-4% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Chhattisgarh is normal for week-1 and above normal for week-2.

- For the management of leaf caterpillar and girdle beetle in soybean crop, it is advised to apply Profenofos 50 EC @ 1.25 litre/ha or Flubendiamide 39.3% SC 150 ml per 500 litres water per ha.

Gujarat

Amount of rainfall received over Gujarat is 618 mm (-29% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Gujarat is above normal for week-1 and week-2.

- For the management of fruit and shoot borer in brinjal crop, it is advised to apply Neem based insecticide like Azadirachtin 40 ml/10 litres water or install *Pheromone* trap with luci-lure @ 40 traps/ha.

Andhra Pradesh

Rainfall received during 01 June - 16 September 2021 over Rayalaseema is 447 mm (30% excess) and Coastal Andhra Pradesh and Yanam is 575 mm (14% excess). The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Rayalaseema is below normal and Coastal Andhra Pradesh is normal for week-1 and; normal over Rayalaseema and above normal over Coastal Andhra Pradesh for week-2.

- The present weather is congenial for incidence of sucking pests in cotton grown in Prakasam, Krishna, Kadapa, Kurnool and Ananthapuramu districts. The farmers are advised to spray Acephate @ 1.5 g or Imidacloprid 200 SL @ 0.4 ml or Acetamiprid @ 0.2 g/litre of water.
- Current weather condition is congenial for incidence of leaf miner disease in groundnut. For effective control, it is advised to spray Chlorpyrifos @ 2.5 ml/litre or Quinalphos @ 2 ml/litre of water, under clear weather conditions.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 625 mm (-14% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Himachal Pradesh is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to harvest the rain water properly through well prepared bunds for proper impounding of water in the rice fields. Bunds should be higher so as to prevent runoff.

Punjab

Amount of rainfall received over Punjab is 381 mm (-14% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Punjab is normal for week-1 and above normal for week-2.

- To protect the rice crop from false smut, it is advised to spray 500 g Kocide or 400 ml Galileo way in 200 litres of water per acre.
- It is the optimum time for sowing of spinach, fenugreek, coriander, broccoli, radish, turnip and late season varieties cauliflower and transplanting of mid season varieties of cauliflower.

Jharkhand

Amount of rainfall received over Jharkhand is 927 mm (-4% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Jharkhand is normal for week-1 and above normal for week-2.

- Due to dry weather condition in some areas of Jharkhand, infestation of leaf eating and sucking pests may observe in pigeon pea crop. Hence, it advised to spray Monocrotophos @ 1 ml per

litre of water by mixing Teepol @ 0.5 ml per litre of water during day time.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 838 mm (-16% deficit) during 01 June - 16 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (17 - 23 September 2021 and 24 - 30 September 2021) over Madhya Pradesh is normal for week-1 and above normal for week-2.

- Farmers are advised to tie the sugar cane plants together to prevent from lodging.
- Farmers are advised to construct bunds around field for soil and water conservation measures.

Disclaimer:

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