



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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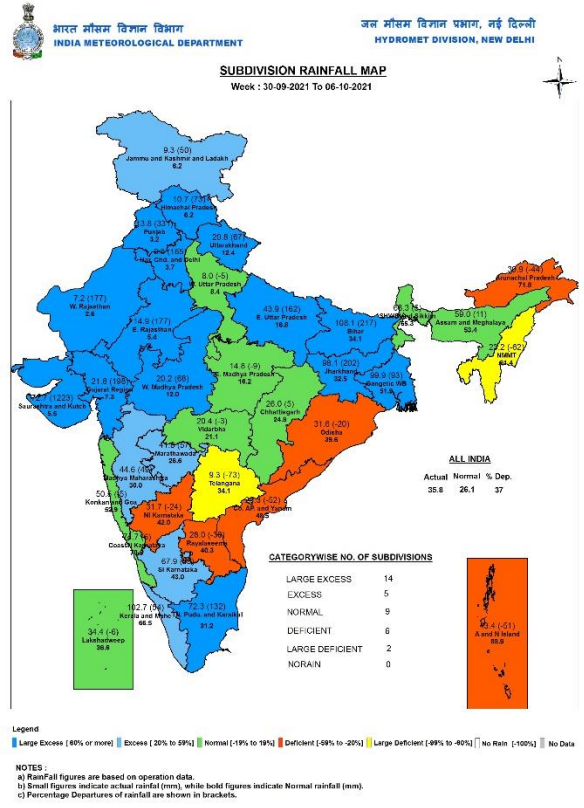
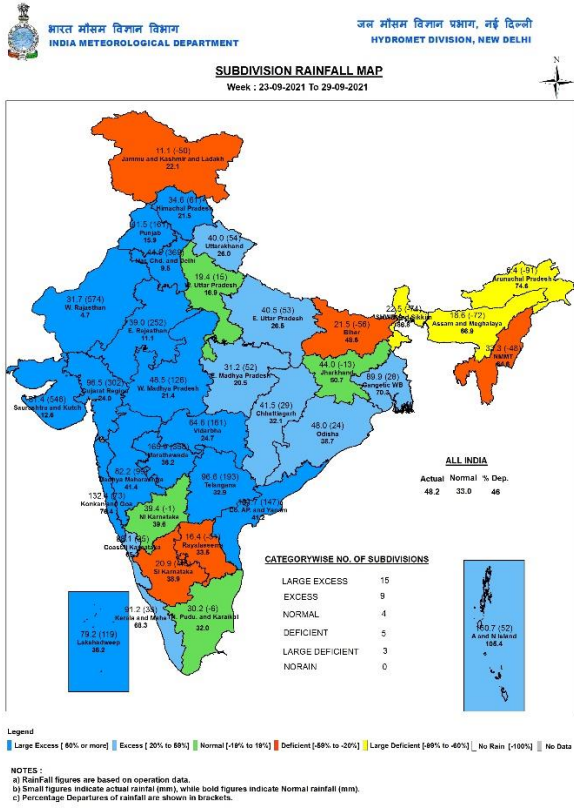
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

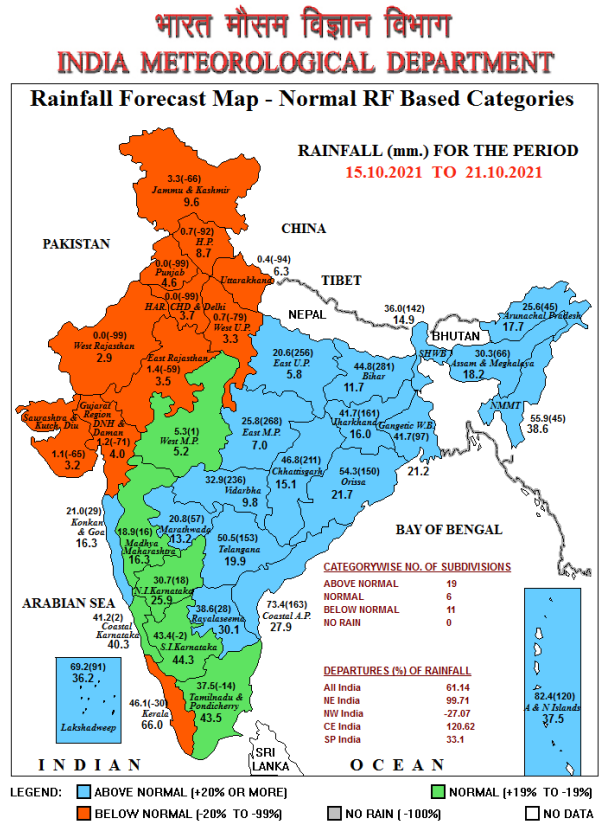
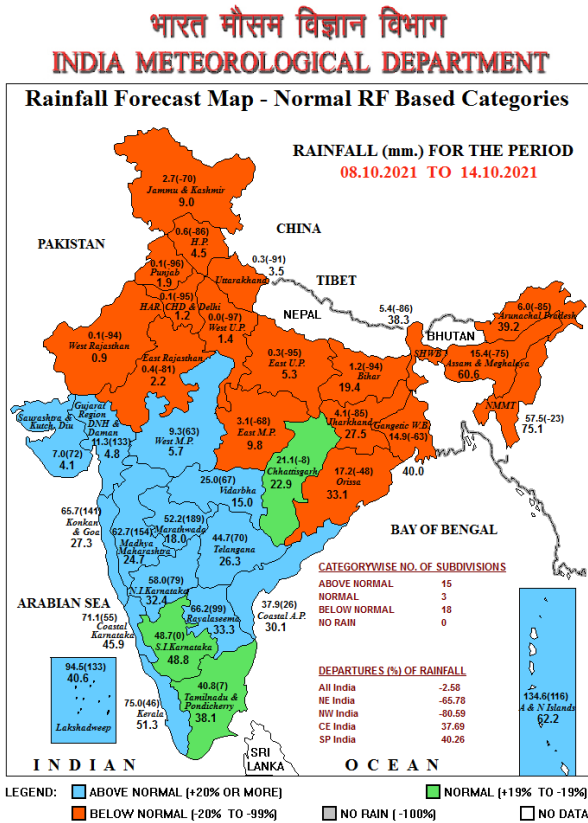
Realized Rainfall (23rd Sept. to 6th October, 2021)



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

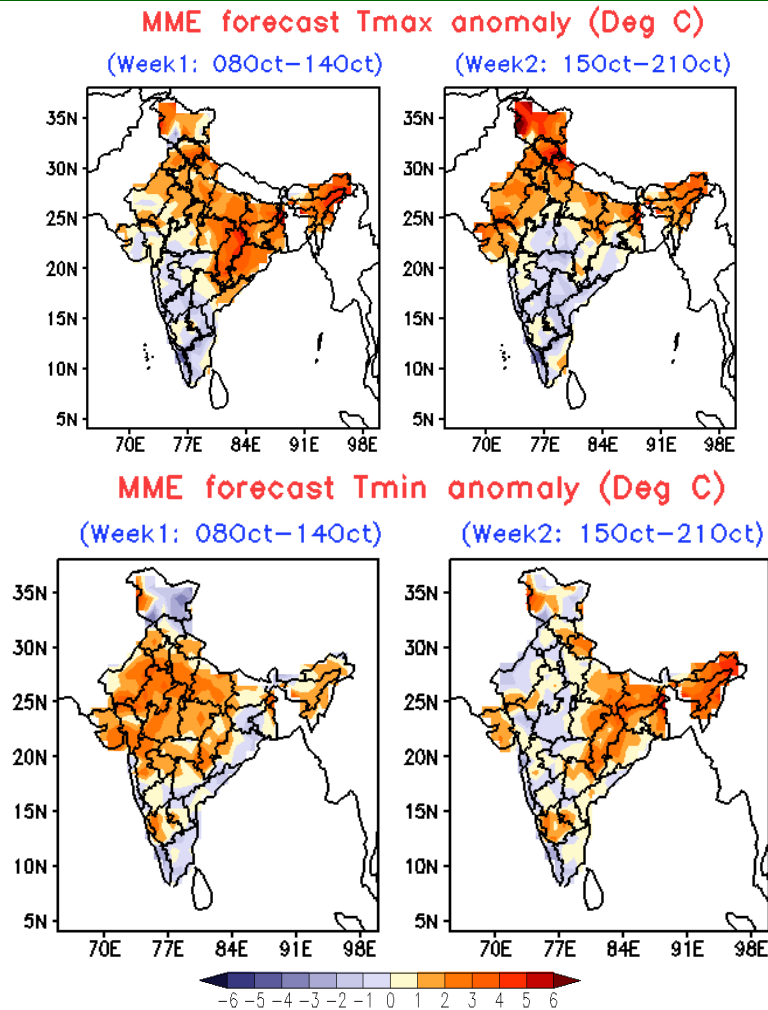
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 06 Oct.) (8th to 21st October, 2021)



- **Week 1 (08.10.2021 to 14.10.2021):** Above normal rainfall likely over west central India but northwest India will have normal rainfall.
- **Week 2 (15.10.2021 to 21.10.2021):** Rainfall likely over eastern parts of India associated with a circulation over Bay of Bengal.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 06 Oct.)
(8th to 21st October, 2021)**



Maximum Temperature (Tmax)

- **Week 1 (08.10.2021 to 14.10.2021) and Week 2 (15.10.2021 to 21.10.2021):** Mostly below normal Tmax likely over India except some parts of north eastern and eastern and extreme north India in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (08.10.2021 to 14.10.2021) and Week 2 (15.10.2021 to 21.10.2021):** Positive Tmin anomaly likely over most of India except some parts of east coast and south peninsula in week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 21 October 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 107 mm (55% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) is above normal for week-1 and below normal for week-2.

- To prevent the spread of bacterial diseases due to continuous rains in vegetable crops, it is advised to keep the fields free from water logging, or drenching with bleaching powder @ 10 g per litre is also recommended.
- Due to increased relative humidity, there is chance of leaf rust disease incidence in coffee. To manage, it is advised to apply 0.5% Bordeaux mixture or plant wax 20 EC @ 1-2 ml per litre.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 73 mm (124% large excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) is normal for week-1 and week-2.

- Prevailing weather condition is congenial for rhinoceros beetle incidence in coconut. To manage, it is advised to apply a mixture of either 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 inner most leaves in the crown.
- 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 49 mm (76% large excess); Marathwada is 44 mm (73% large excess); Vidarbha is 21 mm (-6% deficit) and Konkan region is 63 mm (31% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Konkan, Vidarbha, Madhya Maharashtra and Marathwada is above normal for week-1; above normal over Konkan, Vidarbha, Marathwada is above normal and normal over Madhya Maharashtra is for week-2.

Marathwada

- As per rainfall received during last few days, it is advised to take precaution to avoid water stagnation in field crops, pulses, vegetables and fruit orchard and also remove excess water from the crop fields.
- Due to cloudy, humid and rainy weather condition, sigatoka disease may observe in banana crop. For management, it is advised to spray Carbendazim 50 WP @ 10 g or Propiconazole 10%

EC @ 10 ml per 10 litres of water along with sticker during clear weather condition.

Vidarbha

- Due to continued rainy weather/waterlogging, wilting symptoms may be observed in pigeon pea. To manage, drenching with Copper oxychloride 50% WP @ 25 g in 10 litres of water after current spell of rains during clear weather is advised.
- Due to continuous rainfall, there is a rotting of matured bolls from outer side. To prevent, it is advised to spray Propiconazole 25 EC @ 10 ml or Propineb 70 WP @ 25 -30 g in 10 litres of water.

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*.
- Protective spray of 5% Neemark is advised against the protection from pod borer attack in pigeon pea.

Konkan

- Due to the chances of rise in maximum and minimum temperature, by observing rainfall situation, it is advised to provide irrigation to irrigated fruit crops, nurseries, vegetable crops, and groundnut crop.
- Under prevailing weather condition, there is a possibility for incidence of tea mosquito bug on new flush of cashewnut. If incidence noticed, then it is advised to spray Monocrotophos 36% SL @ 15 ml or Lambda cyhalothrin 5% EC @ 6 ml per 10 litres of water during clear weather condition.

Hisar

Amount of rainfall received over Hisar is 9 mm (154% large excess) during 01 - 07 October 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Hisar is below normal for week-1 and week-2.

- Prevailing high humidity and favorable temperature may increase the infestation of sucking insect-pest in vegetables and fruit plants. Farmers are advised to monitor the field regularly and spray insecticides and pesticides as per recommendation during clear weather condition.
- 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 - 07 October 2021 over South Interior Karnataka is 89 mm (109% large excess) and North Interior Karnataka is 37 mm (-7% deficit). The extended range weather forecast (rainfall) for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over South Interior Karnataka is normal and North Interior Karnataka is above normal for week-1 and normal over North Interior Karnataka and South Interior Karnataka for week-2.

South Interior Karnataka

- For the management of wilt diseases in pigeon pea, it is advised drenching Carbendazim 50 WP 2 g/litre of water.

North Interior Karnataka

- Under prevailing weather condition, land preparation for *rabi* sowing is advised.

Uttar Pradesh

Rainfall received during 01 - 07 October 2021 over East Uttar Pradesh is 44 mm (145% large excess) and West Uttar Pradesh is 8 mm (-12% deficit). The extended range weather forecast (rainfall) for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and; below normal over West Uttar Pradesh and above normal over East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under prevailing weather, sowing of early potato is advised with recommended varieties are *Kufri chandramukhi* and *Kufri ashoka*.
- For the management of leaf webber in pigeon pea, it is advised to spray Emamectin benzoate 5% SG @ 250 g/ha or Cypermethrin 25% EC @ 500ml/ha with 500 litres of water solution.

Eastern Uttar Pradesh

- Under prevailing weather condition, land preparation for sowing of toria/rai and pulse crop is advised.
- Mulching and intercultural operation is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

Jammu

Amount of rainfall received over Jammu is 9 mm (44% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Jammu is below normal for week-1 and week-2.

- For the management of bacterial leaf blight in paddy, it is advised to spray mixture Copper oxychloride @ 2.5g/litre + Streptocycline 1g/15 litres of water.
- Under prevailing weather condition, sowing of winter potato is advised with recommended

varieties are *Kufri Badshah*, *Kufri Sindhuri*, *Kufri Chipsona* and *Kufri Sona*.

Odisha

Amount of rainfall received over Odisha is 24 mm (-40% deficit) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Odisha is below normal for week-1 and above normal for week-2.

- Prevailing high temperature and humid weather condition, favours the infestation of sucking pest cotton crop. To control, it is advised to spray neem-based pesticide (Neem Oil 1500 ppm) @ 600 ml/acre by mixing it in 200 litres of water under clear weather conditions.
- After getting rainfall, there is a chance of wilt disease in brinjal and chilli crop. To manage, it is advised to drench the root zone of the plant with 200 ml of Tebuconazole mixed with 20 g of Streptocycline per 200 litres of water per acre.

Assam

Amount of rainfall received over Assam is 59 mm (5% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Assam is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers may go for sowing of mid-season crops like cauliflower, broccoli, cabbage and knol khol seeds in nursery seed bed. Recommended varieties are *Improved Japanese*, *Pusa Synthetic*, *Pusa Snowball* for cauliflower cultivation; *Green sprouting medium* for broccoli cultivation; *Golden acre*, *Pride of India*, *Pusa Mukta* for cabbage cultivation and *White Vienna* for knol khol cultivation.
- As temperature is rising day by day, poultry farmers are advised to provide Electrolyte Supplement with Vitamin C and probiotics and also provide cooling facilities to the poultry birds for reducing dehydration during this heat stress condition.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 22 mm (-8% deficit) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Chhattisgarh is normal for week-1 and above normal for week-2.

- Nursery sowing of winter vegetables like cauliflower, cabbage and knol khol early varieties is advised.
- For the management of panicle mite in rice, spray of Abamectin @ 0.5 ml per liter of water under clear weather conditions.

Gujarat

Amount of rainfall received over Gujarat is 9 mm (40% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 -

21 October 2021) over Gujarat is above normal for week-1 and below normal for week-2.

- For the management of damping off disease in brinjal crop, it is advised to install 40 pheromone lure trap per hectare after 20 days of transplanting of crop or drenching with Mancozeb @ 28 g/10 litres of water is also advised during clear weather condition.

Andhra Pradesh

Rainfall received during 01 - 07 October 2021 over Rayalaseema is 31 mm (-22% deficit) and Coastal Andhra Pradesh and Yanam is 28 mm (-44% deficit). The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Rayalaseema and Coastal Andhra Pradesh is above normal for week-1 and week-2.

- Present weather condition is favorable for leaf folder and stem borer incidence in rice in Nellore, Chittoor, Srikakulam, East Godavari, West Godavari, Prakasam, Visakhapatnam and Vizianagaram districts. For effective control, spraying of Acephate @ 1.5g or Chlorantraniliprole @ 0.4 ml/litre of water is advised.
- Present weather condition is favorable for the incidence of sucking pest in cotton in Srikakulam, Vizianagaram, Visakhapatnam, Guntur and Krishna districts. To control, spraying of Imidacloprid @ 0.3 ml/litre or Acetamiprid @0.2g/litre of water is advised.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 8 mm (21% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Himachal Pradesh is below normal for week-1 and week-2.

- Maintain room temperature 18-22 °C and relative humidity around 85% for successful cultivation of mushrooms.
- Field preparation is advised for sowing of early mustard, pea, radish, spinach and coriander.

Bihar

Amount of rainfall received over Bihar is 104 mm (212% large excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Bihar is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, nursery sowing of early varieties of cabbage is advised. *Pride of India, Golden Acre, Pusa mukta, Pusa agate*, and *early drum head* varieties of cabbage are recommended for sowing under North Bihar agro climatic condition.
- Monitoring of *khaira* disease is advised in late transplanted paddy. If symptoms occurred, spraying of zinc sulphate @ 5.0 kg mixed with lime @ 2.5 kg in 500 litres of water per ha is advised.

Uttarakhand

Amount of rainfall received over Uttarakhand is 18 mm (47% excess) during 01 - 07 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (08 - 14 October 2021 and 15 - 21 October 2021) over Uttarakhand is above normal for week-1 and week-2.

- Under irrigated areas sowing of fodder crops like maize, berseem, lucerne and oats are advised.

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