



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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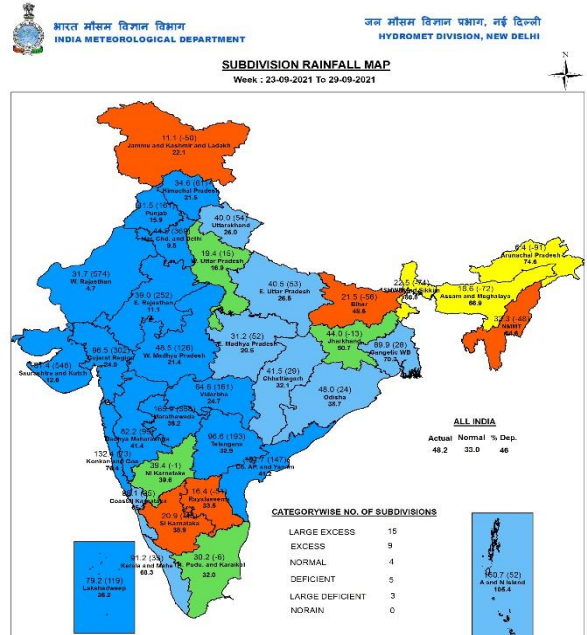
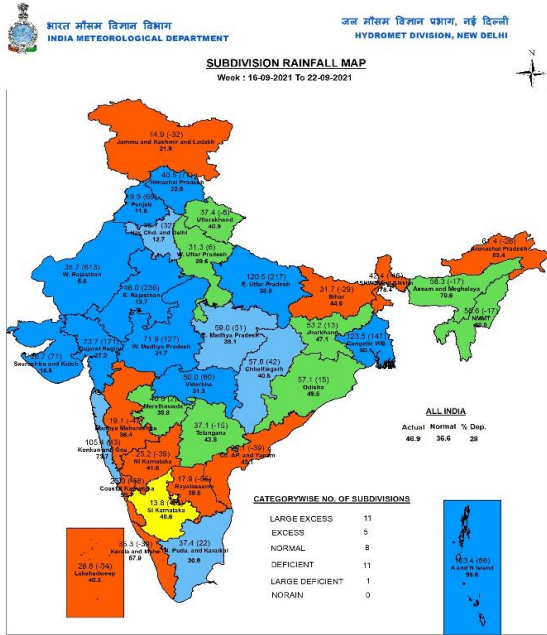
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (16th to 29th Sept., 2021)



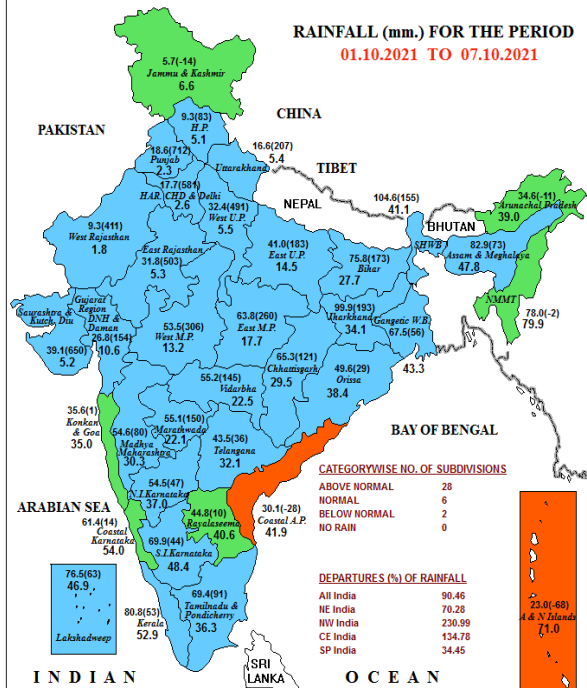
- Normal or above normal rainfall occurred in both the weeks in Himachal Pradesh, Uttarakhand, East Uttar Pradesh, West Uttar Pradesh, East Rajasthan, West Rajasthan, Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha,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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 29 Sept.) (1st to 14th Oct. 2021)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

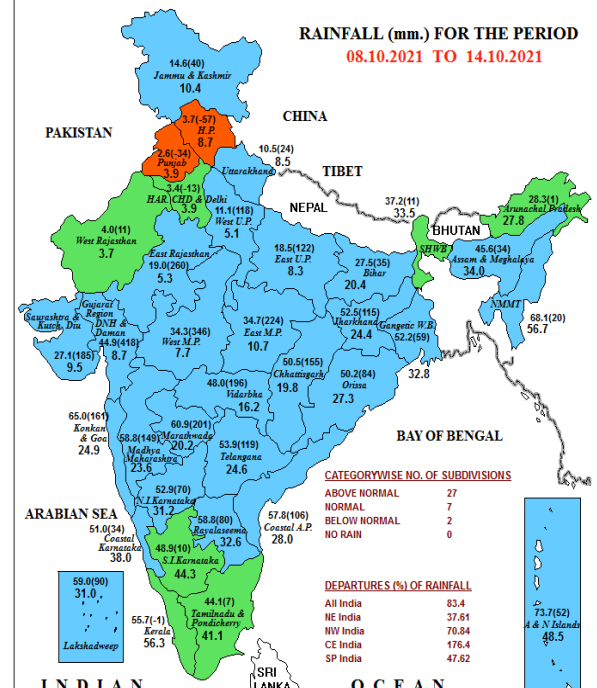
Rainfall Forecast Map - Normal RF Based Categories



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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Rainfall Forecast Map - Normal RF Based Categories

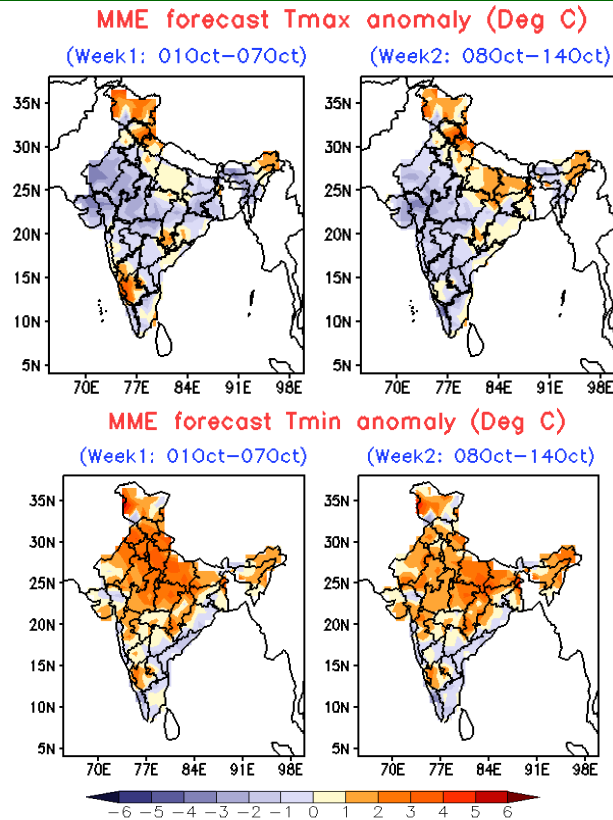


NOTES:
 (a) Rainfall figures are based on MME Forecast data.
 (b) Small figures indicate actual rainfall [mm.], while bold figures indicate Normal rainfall [mm.]
 Percentage Departures of Rainfall are shown in Brackets.

- **Week 1 (01.10.2021 to 07.10.2021):** Mostly above normal rainfall with an increase of rainfall likely over western, north-western and adjoining central parts of India.
- **Week 2 (08.10.2021 to 14.10.2021):** Above normal rainfall likely over central India but northwest India will have normal rainfall. Thus, monsoon withdrawal from Northwest India is likely during week 2.

Delayed withdrawal of monsoon from northwest India as intimated last week. Commencement of withdrawal of monsoon from northwest India is likely towards the end of first week or beginning of second week. However, there are no strong negative rainfall anomalies over northwest India in week 2 along with positive anomalies of rainfall over central India could further delay the withdrawal of monsoon over central India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 29 Sept.)
(1st to 14th Oct. 2021)**



Maximum Temperature (Tmax)

- **Week 1 (01.10.2021 to 07.10.2021) and Week 2 (08.10.2021 to 14.10.2021):** Mostly below normal Tmax likely over India except some parts of north-eastern, eastern and extreme north India in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (01.10.2021 to 07.10.2021) and Week 2 (08.10.2021 to 14.10.2021):** 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 14 October 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1711 mm (-16% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) is above 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..
- Due to increased relative humidity, there is chances of leaf rust disease 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 393 mm (17% excess) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) is above normal for week-1 and normal for week-2.

- Prevailing weather condition is favorable for rhinoceros beetle infestation 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 873 mm (16% excess); Marathwada is 988 mm (48% excess); Vidarbha is 969 mm (3% excess) and Konkan region is 3560 mm (24% excess) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Konkan is normal, and above normal over Vidarbha, Madhya Maharashtra and Marathwada for week-1; above normal over Konkan, Vidarbha, Marathwada and Madhya Maharashtra for week-2.

Marathwada

- As per rainfall received during last week and chances of rainfall for next 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.

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 the chances of light to moderate rainfall during next five days, farmers are advised to harvest the soybean crop timely in order to minimize the yield losses due to shattering, seed deterioration or possible risk of vivipary (in pod germination) in maturing pods due to rains at maturity.

Madhya Maharashtra

- For sowing of *rabi* sorghum, selection of improved varieties according to type of soil is advised. Recommended varieties for shallow soils 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 areas, the recommended varieties are *Phule Vasudha*, *Phule Revati*.
- Protective spray of 5% Neemark is advised against the protection from pod borer attack in pigeon pea crop.

Konkan

- Early sown rice varieties are in maturity stage. Hence make arrangement to drain out water from field before harvesting.
- Under prevailing weather condition, there is a possibility for incidence of tea mosquito bug on new flush of cashew plantations. 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 577 mm (30% excess) during 01 June - 30 September 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Hisar is above normal for week-1 and normal for week-2.

- Prevailing high humidity and favorable temperature may increase the infestation of sucking insect-pest in vegetables and fruit plants. Farmers were advised to regularly monitor 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 June - 30 September 2021 over South Interior Karnataka is 699 mm (3%

excess) and North Interior Karnataka is 607 mm (22% excess). The extended range weather forecast (rainfall) for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and above normal over North Interior Karnataka and normal over South Interior Karnataka for week-2.

South Interior Karnataka

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

Uttar Pradesh

Rainfall received during 01 June - 30 September 2021 over East Uttar Pradesh is 868 mm (3% excess) and West Uttar Pradesh is 573 mm (-21% deficit). The extended range weather forecast (rainfall) for next two weeks (01 - 07 October 2021 and 08 - 14 October 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 maturing potato is advised with recommended varieties (*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

- Earthing and tying in sugarcane crop are 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 402 mm (-29% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Jammu is normal for week-1 and above normal for week-2.

- In cole crops, due to heavy downpour, it is advised that farmers should arrange for adequate drainage in field and go for transplanting at *vattar* condition (optimum moisture) of soil.
- For the management of brown spot in basmati rice. It is advised to 2-3 spray of Mancozeb @ 0.25% at 15 days interval.

West Bengal

Rainfall received during 01 June - 30 September 2021 over Gangetic West Bengal is 1548 mm (31% excess) and Sub-Himalayan West Bengal is 1794 mm (-9% deficit). The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Gangetic West Bengal and Sub-Himalayan West Bengal is above normal for week1 and; Gangetic West

Bengal is above normal and Sub-Himalayan West Bengal normal for week-2.

- For the management of jassids and white fly in okra, it is advised to apply Thiamethoxam @ 1g/3litre of water.

Odisha

Amount of rainfall received over Odisha is 1046 mm (-9% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Odisha is above normal for week-1 and week-2.

- Prevailing high humid weather condition is favorable for brown plant hopper and white backed plant hopper infestation in paddy. To manage, it is advised to avoid excess use of nitrogenous fertilizer. Avoid prolonged water stagnation in the field.
- After the anticipated above normal rainfall, there is a chance of wilt disease in brinjal and chilli crops. 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 1387 mm (-22% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Assam is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers may go for sowing of mid-season crops like cauliflower, broccoli, cabbage and *knol* khols 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.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 1108 mm (-3% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Chhattisgarh is above normal for week-1 and week-2.

- Nursery sowing of winter vegetables like cauliflower, cabbage and knol khol early varieties is advised.
- Due to the possibility of light to moderate rainfall at some places of plains of Chhattisgarh in coming days, the farmers are advised for water management with proper drainage facility.

Gujarat

Amount of rainfall received over Gujarat is 789 mm (-15% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Gujarat is above normal for week-1 and week-2.

- To monitor pink bollworm in cotton crop, it is advised to install five pheromone traps (with lure) per hectare. In heavy incidence, spray Spinosad 45 % SC 3 ml or Thiodicarb 75% WP 10 g in 10 litres water in clear weather condition.

Andhra Pradesh

Rainfall received during 01 June - 30 September 2021 over Rayalaseema is 488 mm (22% excess) and Coastal Andhra Pradesh and Yanam is 704 mm (20% excess). The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Rayalaseema is normal and Coastal Andhra Pradesh is below normal for week-1 and; above normal over Rayalaseema and Coastal Andhra Pradesh for week-2.

- Present weather condition is favorable for rice leaf folder and stem borer incidence 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 pests in cotton over 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 690 mm (-10% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Himachal Pradesh is above normal for week-1 and below normal for 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.

Punjab

Amount of rainfall received over Punjab is 437 mm (-7% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Punjab is above normal for week-1 and below normal for week-2.

- Prevailing weather condition is optimum time for sowing of late season varieties and transplanting of mid-season varieties of cauliflower and also best time for sowing of spinach, fenugreek, coriander, broccoli, radish and turnip.
- For the management of sugarcane pyrilla, it is advised to use Chlorpyrifos 20 EC @ 600ml/acre in 400 litres of water.

Bihar

Amount of rainfall received over Bihar is 1044 mm (3% excess) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Bihar is above normal for week-1 and 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 is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. Spraying of Imidacloprid @ 0.3ml/litre of water or Triazofos 40 EC @ 1 ml /litre of water is advised.

Uttarakhand

Amount of rainfall received over Uttarakhand is 1153 mm (-2% deficit) during 01 June - 30 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (01 - 07 October 2021 and 08 - 14 October 2021) over Uttarakhand is above normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to prepare the field for nursery sowing of onion and also drenching the nursery beds by Captan or Thiram @ 0.2% or Carbendazim @ 0.1% or Copper oxychloride @ 0.3% for management of damping off disease in onion is advised.

Disclaimer:

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