



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 24 September – 7 October 2021

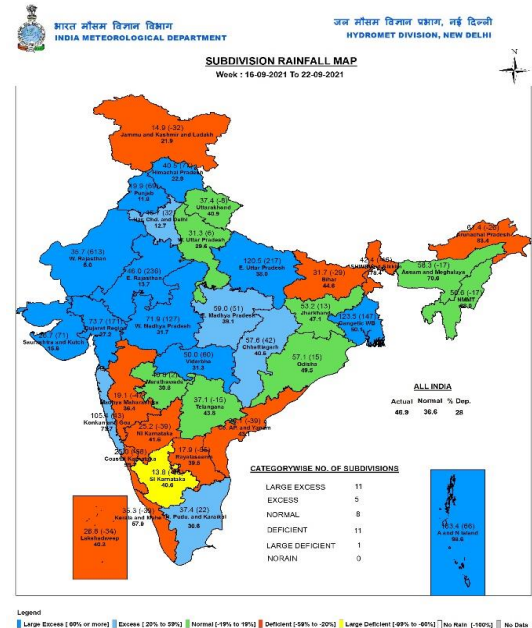
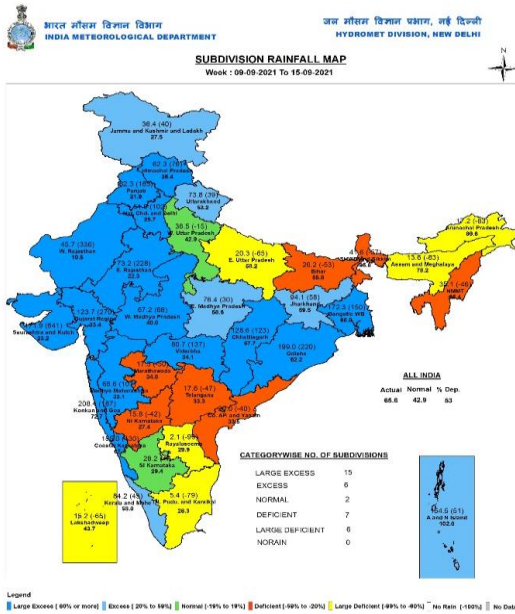
Date of issue: 24 September 2021

Issued by

**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
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&
India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (9th to 22nd Sept., 2021)



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

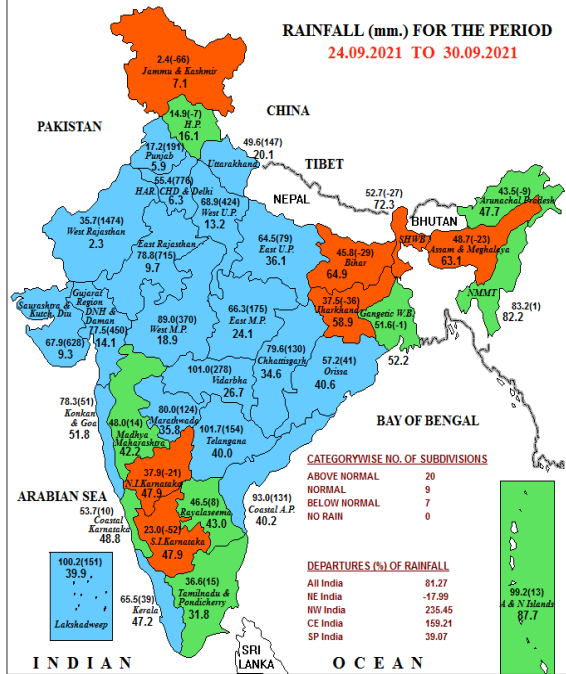
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 22 Sept.)

(24th Sep. to 7th Oct. 2021)

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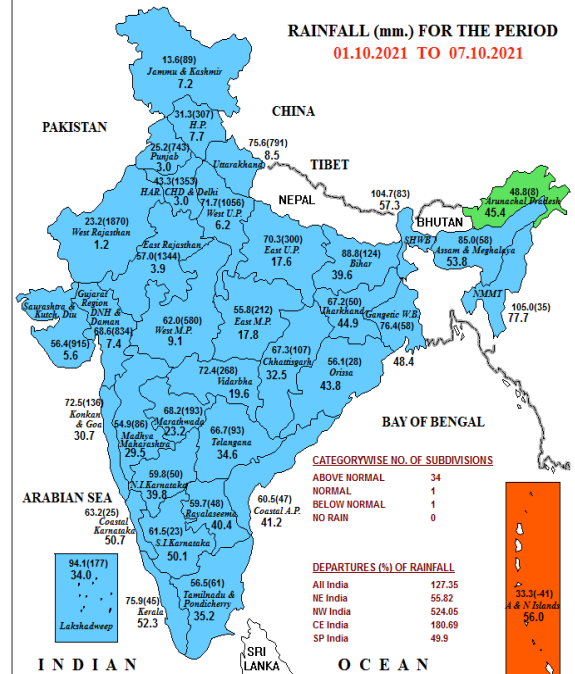
Rainfall Forecast Map - Normal RF Based Categories



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.

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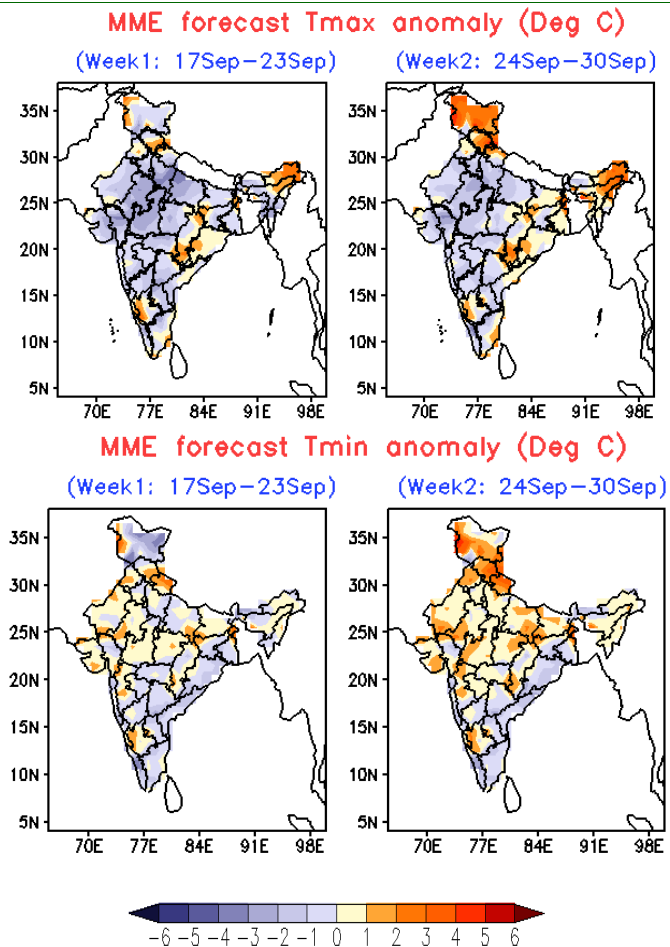
Rainfall Forecast Map - Normal RF Based Categories



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 (24.09.2021 to 30.09.2021):** Above normal rainfall with an increase of rainfall likely over western, north western and adjoining central parts of India. Below normal rainfall likely over Northeast India.
- **Week 2 (01.10.2021 to 07.10.2021):** Above normal rainfall likely over almost the entire India.

**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 07 October 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1625 mm (-18% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) is above normal for week-1 and week-2.

- During rainy season, rhizome rot disease may be observed in banana. It is advised to provide better drainage in the garden and apply lime in basins and bleaching powder in irrigation channels.
- Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. To control, it is advised to spray Mancozeb @ 2.5 g per one litre of water under the leaves under clear weather conditions.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 370 mm (20% excess) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) is normal for week-1 and above 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 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 806 mm (12% excess); Marathwada is 862 mm (35% excess); Vidarbha is 919 mm (normal rainfall) and Konkan region is 3459 mm (23% excess) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Konkan, Vidarbha and Marathwada is above normal and normal over Madhya Maharashtra for week-1; above normal over Konkan, Vidarbha, Marathwada and Madhya Maharashtra for week-2.

Marathwada

- Due to the chances of above normal rainfall, 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 current rain spells, fruit drop is observed in mandarin orange (Ambia bahar). To manage, it is advised to spray 1.5 g Gibberellic acid + 1 kg Urea per 100 litres of water.
- For cultivation of *rabi* season crops, it is advised for nursery sowing of tomato, brinjal, cabbage, cauliflower.

Madhya Maharashtra

- For sowing of *rabi* sorghum selection of improved varieties according to type of soil is advised. Recommended varieties are *Phule Anuradha*, *Phule Mauli* for shallow soils; *Phule Mauli*, *Phule Suchitra*, *Phule Chitra*, *Parbhani Moti* and *Maldandi M-35-1* for medium soils; *Phule Vasudha*, *Phule Yashoda* and *CSV-22* and; for irrigated condition varieties are *Phule Vasudha*, *Phule Revati* for deep soils.
- For the management of leaf blight in onion, farmers are advised to spray Mancozeb @ 25 g per 10 litres of water.

Konkan

- Early 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 bud rot fungal disease in young coconut palm. If incidence is noticed, it is advised to clean the crown region and drench 1% Bordeaux mixture into it during clear weather condition.

Hisar

Amount of rainfall received over Hisar is 572 mm (30% excess) during 01 June - 24 September 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 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 - 24 September 2021 over South Interior Karnataka is 680 mm (5% excess) and North Interior Karnataka is 582 mm (26% excess). The extended range weather forecast (rainfall) for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and above normal over North Interior Karnataka and 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.

Uttar Pradesh

Rainfall received during 01 June - 24 September 2021 over East Uttar Pradesh is 848 mm (3% excess) and West Uttar Pradesh is 564 mm (-21% deficit). The extended range weather forecast (rainfall) for next two weeks (24 - 30 September 2021 and 01 - 07 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 potato is advised with recommended varieties are *Kufri chandramukhi* and *Kufri ashoka*.
- For the management of leaf webber in pigeon pea crop, 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

- Sowing of ridge planted pigeon pea, under late condition is advised. Recommended improved variety is *NA-2*.
- 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 397 mm (-28% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Jammu is below normal for week-1 and above normal for 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.
- Prevailing weather is congenial for hairy caterpillar in moong & mash crop. To control, it is advised to spray Quinalphos @ 0.03% or Dichlorvos @ 0.05% during clear weather.

West Bengal

Rainfall received during 01 June - 24 September 2021 over Gangetic West Bengal is 1399 mm (25% excess) and Sub-Himalayan West Bengal is 1775 mm (-7% deficit). The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Gangetic West Bengal is normal and Sub-Himalayan West Bengal is below normal for week-1 and; Gangetic West Bengal and Sub-Himalayan West Bengal above normal for week-2.

- For the management of root and stem rot diseases of pointed gourd, it is advised to spray Copper hydroxide 2.5 g/litre or Copper oxychloride 4 g/litre of water.

Odisha

Amount of rainfall received over Odisha is 999 mm (-11% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Odisha is above 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.
- After getting rainfall, there is a chance of wilt disease in brinjal and chilli. 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 1366 mm (-20% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Assam is 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 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.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 1077 mm (-4% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Chhattisgarh is above normal for week-1 and week-2.

- Nursery sowing of winter vegetables like cauliflower, cabbage and early maturing knol khol varieties is advised.

Gujarat

Amount of rainfall received over Gujarat is 702 mm (-22% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Gujarat is above normal for week-1 and week-2.

- For the management of whitefly/white woolly aphid infestation in sugarcane, it is advised to spray Imidacloprid 5 ml/15 litres of water during clear weather condition.

Andhra Pradesh

Rainfall received during 01 June - 24 September 2021 over Rayalaseema is 469 mm (23% excess) and Coastal Andhra Pradesh and Yanam is 607 mm (10% excess). The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Rayalaseema is normal and Coastal Andhra Pradesh is above normal for week-1 and; above normal over Rayalaseema and Coastal Andhra Pradesh for 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.
- 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 684 mm (-9% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Himachal Pradesh is normal for week-1 and above normal for week-2.

- Weather is conducive for appearance of aphids in rose. To control, it is advised to spray Dimethoate @ 1 ml per litre of water.
- Farmers are also advised to increase the amount of potash it helps in minimizing the losses due to the moisture stress during dry spell.

Punjab

Amount of rainfall received over Punjab is 436 mm (-5% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Punjab is above normal for week-1 and week-2.

- Prevailing weather is favorable for die back disease in chilli. To protect, it is advised to spray 250 ml Folicur or 750 g Indofil M 45 or Blitox in 250 litres of water per acre.
- For the management of sugarcane pyrilla, it is advised to use Chlorpyrifos 20 EC @ 600ml/acre in 400 litres of water.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 866 mm (-16% deficit) during 01 June - 24 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (24 - 30 September 2021 and 01 - 07 October 2021) over Madhya Pradesh is above normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised not to harvest legume crops like soybean, mung, urd. After completing of rainfall, kept it under shaded protected conditions.

Disclaimer:

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