



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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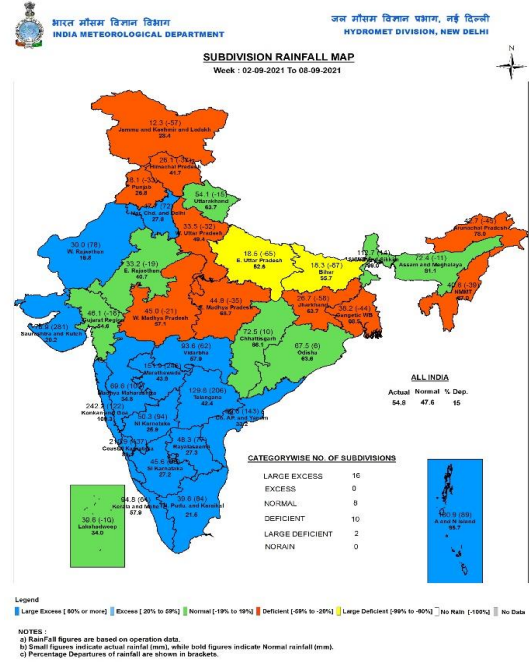
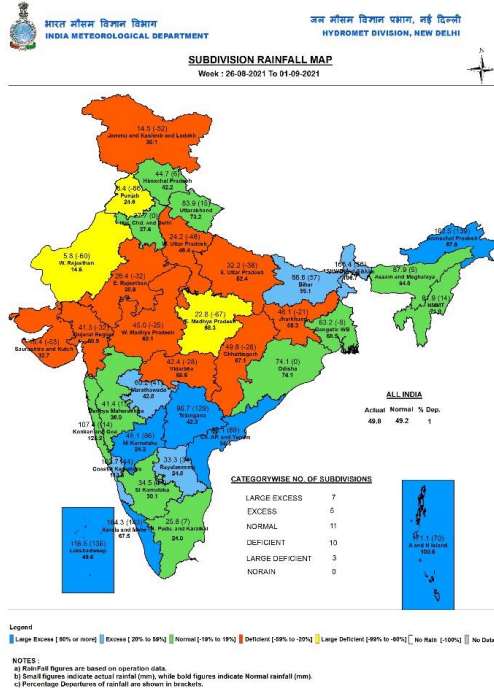
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (26th August to 8th Sept., 2021)

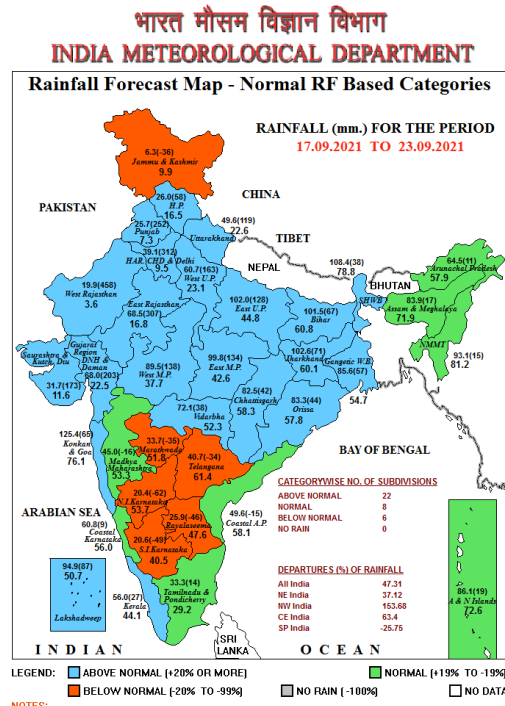
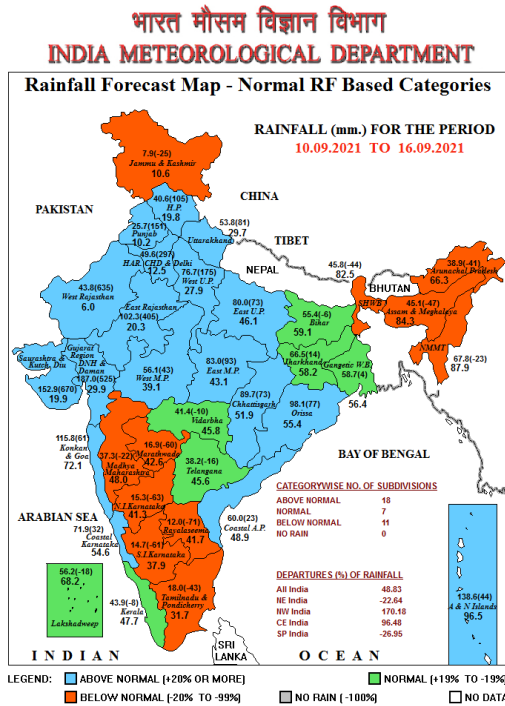


- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, South Interior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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 08 Sept.)

(10th to 23rd Sep., 2021)



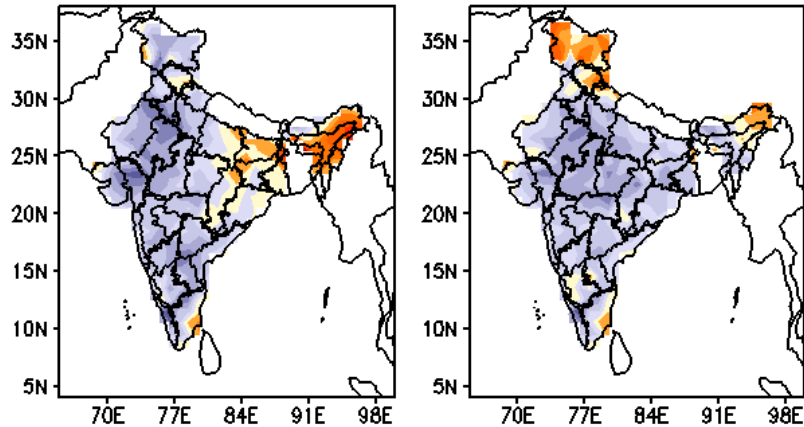
- **Week 1 (10.09.2021 to 16.09.2021):** Above normal rainfall with an increase of rainfall likely over western, northwestern and parts of central India in week 1.
- **Week 2 (17.09.2021 to 23.09.2021):** Likely increase of rainfall over parts of north and northwest India and adjoining central India. Thus, withdrawal of the monsoon will be delayed.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 08 Sept.)
(10th to 23rd Sep., 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 10Sep–16Sep)

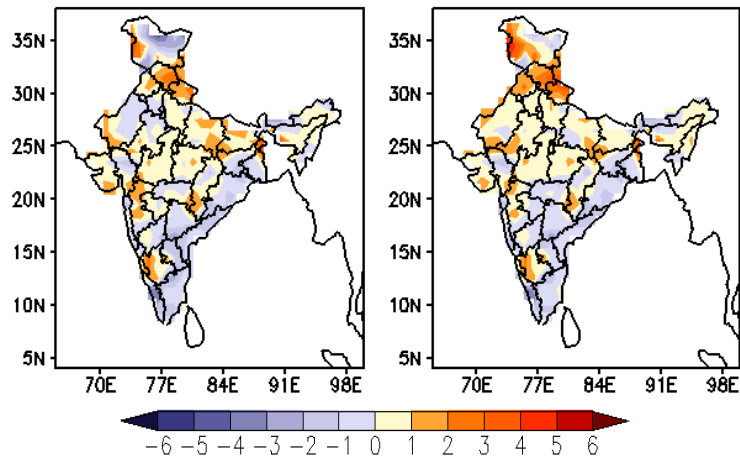
(Week2: 17Sep–23Sep)



MME forecast Tmin anomaly (Deg C)

(Week1: 10Sep–16Sep)

(Week2: 17Sep–23Sep)



Maximum Temperature (Tmax)

- **Week 1 (10.09.2021 to 16.09.2021) and Week 2 (17.09.2021 to 23.09.2021):** Mostly below normal Tmax likely over India except some parts of northeastern and eastern India in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (10.09.2021 to 16.09.2021) and Week 2 (17.09.2021 to 23.09.2021):** Slight 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 23 September 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1512 mm (-19% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) is normal for week-1 and above normal for week-2.

- Under prevailing high humidity conditions, there is a chance of leaf rust disease incidence in coffee plants. To control, it is advised to apply 0.5% Bordeaux mixture or plant wax 20 EC @1-2 ml per litre under clear weather conditions.
- Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. To manage, it is advised to spray Mancozeb @ 2.5 g per one litre of water under the leaves.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 319 mm (28% excess) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) is below normal for week-1 and normal for 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 is conducive for bacterial disease (Enterotoxaemia) in sheep and goat. For prevention, it is advised to vaccinate young animals at 6 weeks of age and re-vaccination should be done every year prior to rainy season.

Maharashtra

Rainfall received over Madhya Maharashtra is 711 mm (10% excess); Marathwada is 766 mm (36% excess); Vidarbha is 794 mm (-8% deficit) and Konkan region is 3133 mm (17% excess) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Konkan is above normal, Marathwada and Madhya Maharashtra is below normal and Vidharbha is normal for week-1; above normal over Konkan and Vidharbha, below normal over Marathwada and normal over Madhya Maharashtra for week-2.

Marathwada

- Because of rainy weather condition during last week, farmers are advised to remove excess water from the different field crops and horticultural crops.
- Under prevailing humid weather condition, there is a chance of occurrence of various diseases in animals. Therefore, farmers are advised to maintain good sanitation and proper hygiene in the animal shed and keep their animals in dry places and good ventilation.

Vidharbha

- The recent continuous rainy, cloudy weather and waterlogging condition may cause wilting 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.

Konkan

- Due to the chances of heavy to very heavy rainfall, it is advised to make arrangement to drain out excess water from rice, groundnut, vegetables, flower crops, coconut and arecanut field crops and avoid water stagnation near base of newly planted fruit crop orchard like banana and papaya crops.
- Due to chances of heavy to very heavy rainfall, farmers are advised to postpone all spraying and fertilizer application to crops.

Madhya Maharashtra

- 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 468 mm (16% excess) during 01 June - 10 September 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 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 - 10 September 2021 over South Interior Karnataka is 637 mm (11% excess) and North Interior Karnataka is 529 mm (36% excess). The extended range weather forecast (rainfall) for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and 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 crop, it is advised Drenching Carbendazim 50 WP 2 g/litre of water.
- Vaccination for the cow is advised against the *Haemorrhagic Septecemia* (HS) and Black Quarter (BQ) Disease at the age of six-month-old calf.

Uttar Pradesh

Rainfall received during 01 June - 10 September 2021 over East Uttar Pradesh is 692 mm (-5% deficit) and West Uttar Pradesh is 491 mm (-24% deficit). The extended range weather forecast (rainfall) for next two weeks (10 - 16 September 2021 and 17 - 23 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*.
- For the management of *khaira* disease in late planted paddy, it is advised to spray 5.0 kg Zinc sulphate/ha with 2.0% Urea solution under clear weather conditions.

Eastern Uttar Pradesh

- Under prevailing weather condition, there is a possibility for attack of *khaira* disease in paddy. Hence, farmers are advised to spray ZnSO₄@ 5 kg + 20 kg urea dissolved in 800 litres of water under clear weather conditions.

Jammu

Amount of rainfall received over Jammu is 353 mm (-30% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers may go for land preparation for nursery rising of *rabi* crops under protected structures.
- Monitoring for the attack of fruit fly in bitter gourd is advised. To manage, install pheromone traps @ 1 trap/10sq. m area to trap melon fly.

West Bengal

Rainfall received during 01 June - 10 September 2021 over Gangetic West Bengal is 1105 mm (10% excess) and Sub-Himalayan West Bengal is 1698 mm (-2% deficit). The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Gangetic West Bengal is normal and over 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 chili leaf curl, it is advised to spray Imidacloprid @ 0.2 ml/litre of water at the evening hours under clear weather conditions.

Odisha

Amount of rainfall received over Odisha is 743 mm (-27% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Odisha is above normal for week-1 and week-2.

- In medium and lowland transplanted rice, where the land has not been covered due to scanty rainfall, it is advised to go for line sowing of pre-germinated paddy seeds. Recommended varieties are *Jyotirmayee*, *Siddhant*, *Jogesh*, *Mandakini*, *Sahabhagidhan* and *Abhisek*.
- 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 1298 mm (-18% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Assam is below normal for week-1 and normal for 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 25EC @ 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 crop field may occur. Farmers are advised for renovations of drainage channel in the crop fields.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 888 mm (-13% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Chhattisgarh is above normal for week-1 and week-2.

- For management of defoliators and white fly in soybean crop, farmers are advised to spray per-mixed insecticides like Beta cyfluthrin+ Imidacloprid @ 350 ml/ha or Thimethoxam+Lambda cyhalothrin @ 125 ml/ha.

Gujarat

Amount of rainfall received over Gujarat is 510 mm (-44% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Gujarat is above normal for week-1 and week-2.

- For the management of leaf blight/maydis leaf blight of maize, it is advised to spray Tebuconazole 25% EC 10 ml or Propiconazole 25% EC 10 ml or Mancozeb 75% WP 27 g mixed in 10 litres of water.

Andhra Pradesh

Rainfall received during 01 June - 10 September 2021 over Rayalaseema is 445 mm (43% excess) and Coastal Andhra Pradesh and Yanam is 557 mm (18% excess). The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Rayalaseema is below normal and Coastal Andhra Pradesh is above normal for week-1 and; below normal over Rayalaseema and normal over Coastal Andhra Pradesh for week-2.

- The present weather condition is favorable for leaf folder and stem borer in rice crop. For effective control, spraying of Acephate @ 1.5 g or Chlorantraniliprole @ 0.4 ml/litre of water is recommended.
- 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 566 mm (-19% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Himachal Pradesh is above normal for week-1 and 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.

Bihar

Amount of rainfall received over Bihar is 963 mm (10% excess) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Bihar is normal for week-1 and above normal for week-2.

- 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 Gundhi bug is advised in early sown rice. To control, apply Folidol dust @10-15 kg per ha during the early morning or late evening.

Punjab

Amount of rainfall received over Punjab is 324 mm (-24% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Punjab is above normal for week-1 and week-2.

- Prevailing weather is favorable for fruit rot and 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 is advised.

- It is the optimum time for sowing of mid-season varieties of cauliflower. Recommended varieties are *Punjab Broccoli-1* and *Palam Samridhi*.

Uttarakhand

Amount of rainfall received over Uttarakhand is 1032 mm (-4% deficit) during 01 June - 10 September 2021. The extended range weather forecast (rainfall) provided for next two weeks (10 - 16 September 2021 and 17 - 23 September 2021) over Uttarakhand is above normal for week-1 and week-2.

- In view of excess soil moisture and heavy rainfall it is advised to postpone the sowing of vegetable pea, spinach, radish.

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