



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),
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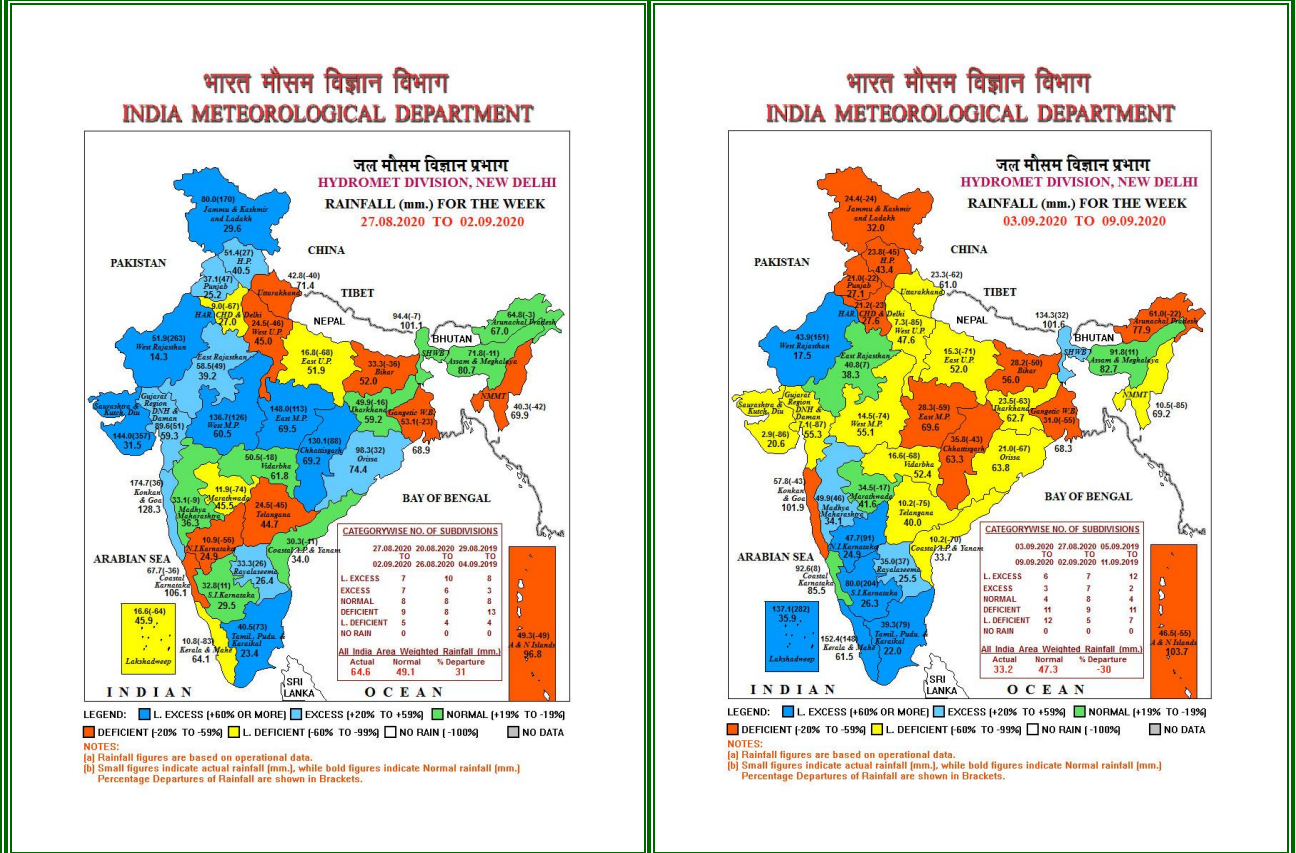
&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

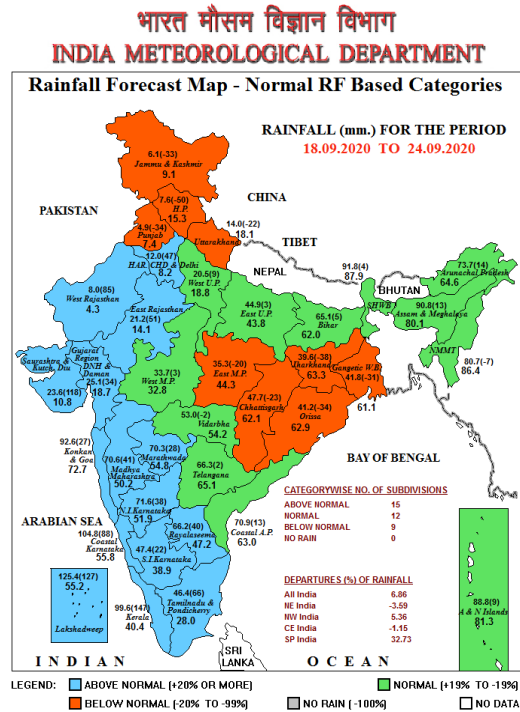
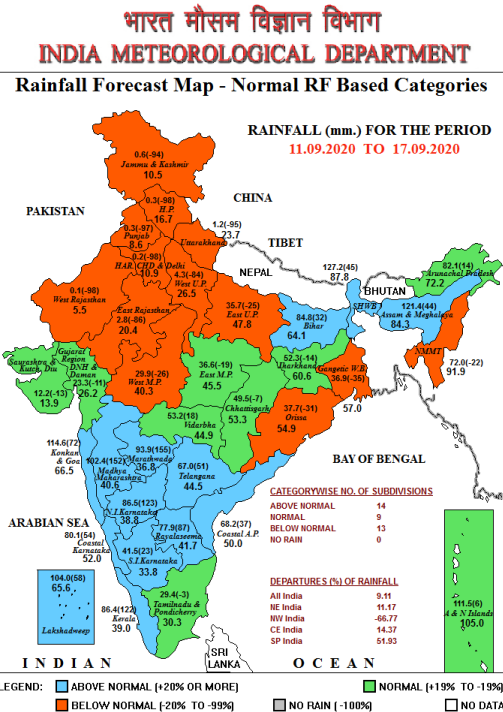
(27th August to 09th September, 2020)



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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –09 September) (11th to 24th September, 2020)



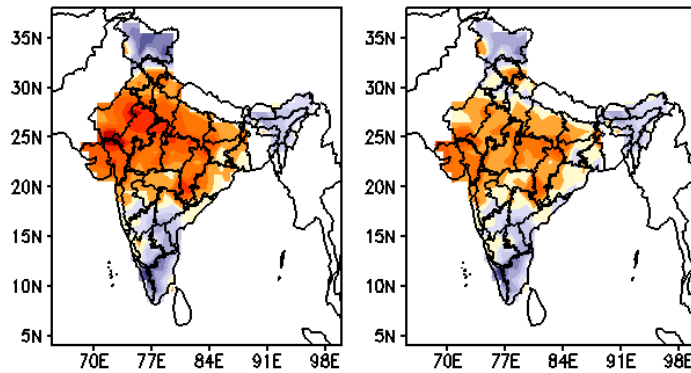
- **Week 1 (11.09.2020 to 17.09.2020):** Rainfall will be below normal over Northwest India and northern part of India. However, it will be above normal over the south peninsula and adjoining parts of central India.
- **Week 2 (18.09.2020 to 24.09.2020):** In week 2, almost similar rainfall patterns as that of week 1, with south peninsula and adjoining parts of central India where there will be above normal rainfall. Rainfall will be above normal over some isolated pockets of northwest India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC -09 September)
(11th to 24th September, 2020)**

MME forecast Tmax anomaly ($^{\circ}\text{C}$)

(Week1: 11Sep-17Sep)

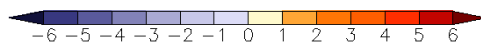
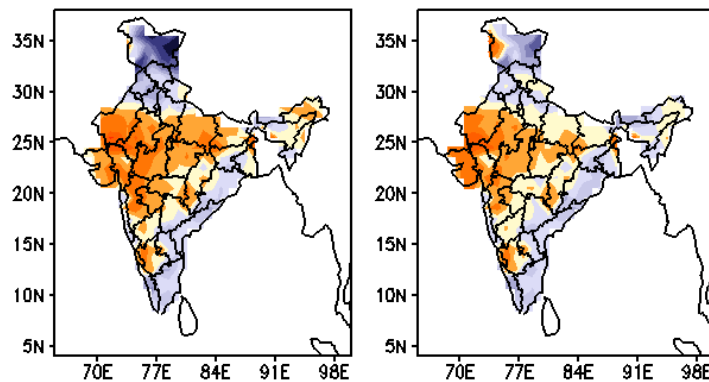
(Week2: 18Sep-24Sep)



MME forecast Tmin anomaly ($^{\circ}\text{C}$)

(Week1: 11Sep-17Sep)

(Week2: 18Sep-24Sep)



Maximum Temperature (Tmax)

- **Week 1 (11.09.2020 to 17.09.2020) and Week 2 (18.09.2020 to 24.09.2020):** Tmax will be mostly normal to above normal over parts of central and northern India during week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (11.09.2020 to 17.09.2020) and Week 2 (18.09.2020 to 24.09.2020):** Except some parts of south-eastern coastal region, Tmin will be slightly above normal over the country.

Strategic Agricultural Planning based on rainfall during next two weeks till 24 September 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1824.4 mm (-3% deficit) during the period of 01 June 2020 - 10 September 2020. The extended range weather forecast for next two weeks (11 - 17 September and 18 - 24 September 2020) is above normal for week-1 and week-2.

- For the management of attack of tea mosquito bug in cashewnut, it is advised to spray Quinalphos @ 2 ml/litre of water.
- Due to rainy weather condition, there is a chance of bacterial wilt in paddy. It is advised to spray a mixture of cow dung slurry @ 20 g cow dung/litre of water and Pseudomonas solution @ 20 g/litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 373.3 mm (46% excess) during the period of 01 June 2020 - 10 September 2020. The extended range weather forecast for next two weeks (11 - 17 September and 18 - 24 September 2020) is normal for week-1 and above normal for week-2.

- Present weather condition is favorable for fruit borer incidence in cotton. It is advised to spray Azadirachtin 0.03% EC 500 ml/ha or Chlorpyrifos 20% EC 1250 ml/ha or Emamectin benzoate 5% SG 190-220 g/ha.
- Prevailing weather condition is also congenial for mosaic incidence in gourds. It is advised to spray Monocrotophos @ 1.5 ml/litre or Chlorpyrifos 2.5 ml + Neem oil 2 ml/litre of water.

Maharashtra

Rainfall received over Madhya Maharashtra is 835.5 mm (29% excess), Marathwada is 656.7 mm (16% excess), Vidharbha is 752.9 mm (-12% deficit) and Konkan region 3285.7 mm (23% excess) during the period of 01 June 2020 - 10 September 2020. The extended range weather forecast for next two weeks (11 - 17 September and 18 - 24 September 2020) over Vidharbha is normal and Madhya Maharashtra, Marathwada and Konkan is above normal for week-1 and week-2

Madhya Maharashtra

- For control of American army worm attack in crops, it is advised to use pheromone trap @ 5 per ha or apply 50,000 eggs of *Trichogram pritiolum* or *Telenomus remus* parasite per acre three times in one-week interval.
- For the management of yellowing in soybean crop, spray of 100 g Urea + 50 g Ferrous Sulphate in 10 litres of water is advised.

Marathwada

- Due to increase in temperature and humidity, Incidence of pod blight disease is observed in soybean crop. It is advised to spray Tebuconazole 10% + Sulphur 65% @ 500 g or Tebuconazole 25.9% @ 250 ml per acre during clear weather condition.

- For the management of infestation of sucking pest in cotton crop, it is advised to spray 5% NSKE or Thiamethoxam 25 % @ 40 g/acre during clear weather.

Vidharbha

- To reduce the fruit drop in mandarin orange, spray of 1.5 g Gibberellic acid + 1 kg Urea + 100 g Carbendazim 50% WP per 100 litres of water is advisable.
- Under the prevailing weather condition, there is a chance of pod borer in soybean. To control, it is advised to spray Indoxacarb 15.8% EC @ 6 to 7 ml per 10 litres of water.

Konkan

- Due to higher chances of intermittent rainfall and increase in temperature, there is a possibility of incidence of blue beetle in low land rice. If incidence is noticed, spray Quinalphos 25% EC @ 40 ml or Triazophos 40% EC @ 12.5 ml or Lambda cyhalothrin 5% EC @ 5 ml per 10 litres of water during clear weather.
- For the management of shoot borer in newly planted mango orchard, spray Monocrotophos 36% SL @ 11 ml per 10 litres of water during clear weather.

Hisar

Amount of rainfall received over Hisar is 376.1 mm (-7% deficit) during of 01 June 2020 - 10 September 2020. The extended range rainfall forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) over Hisar is below normal for week-1 and above normal for week-2.

- Due to humid weather condition, there may be a chance of infestation of white fly in cotton. If infestation is above ETL, then spray Nimicidine @ 1 litre with 250 litres of water per acre.
- 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 2020 - 10 September 2020 over South Interior Karnataka is 710.3 mm (24% excess) and North Interior Karnataka is 575.5 mm (48% excess). The extended range weather forecast for next two weeks (11 - 17 September and 18 - 24 September 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

South Interior Karnataka

- Farmers are advised for earthing up in long duration crops like redgram, maize and castor for better soil moisture conservation.
- Under prevailing weather condition, there is a chance of wilt disease in redgram. It is advised for drenching with Carbendazim 50 WP @ 2 g/litre of water. Remove and burn the infected plants in the field itself.

North Interior Karnataka

- Under prevailing rainy weather condition, sowing of sunflower, sorghum, cotton and fodder crops is recommended.
- Farmers are also advised to sow the crops in rows across the slope to facilitate better soil moisture conservation.
- Farmers are advised to vaccinate livestock against foot and mouth disease (FMD vaccination), black quarter disease (BC vaccination) and haemorrhagic septicaemia.

Assam

Amount of rainfall received over Assam is 1728.2 mm (10% excess) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Assam is above normal for week-1 and normal for week-2.

- Due to favorable weather condition, there is a chance of infestation of stem borer in Sali rice. To control, it is advised to spray Quinalphos 25EC @ 1ml/litre of water during rain-free weather.
- Due to heavy rainfall condition, farmers are advised to maintain proper drainage facility in coconut, citrus, papaya, banana and other vegetable orchards and ensure to drain out excess amount of water from the crop fields.
- Monitoring for the infestation of trunk borer in citrus is advised. If infestation is observed, farmers are advised to go for proper pruning and training to minimize the pest infestation.

Uttar Pradesh

Rainfall received during of 01 June 2020 - 10 September 2020 over East Uttar Pradesh 677.4 mm (-7% deficit) and West Uttar Pradesh is 443.6 mm (-31% deficit). The extended range weather forecast for next two weeks (11 - 17 September and 18 - 24 September 2020) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under prevailing weather condition, there is a chance of leaf webber attack in pigeon pea fields. It is advised to spray Emamectin benzoate 5% SG @ 250g/ha or Cypermethrin 25% EC @ 500 ml/ha with 500 litre water solution.
- Under prevailing weather condition, sowing of toria is advised with recommended varieties viz., Bhavani T-9, PT-303, PT-507, Type-36 and Tapesvari.

Eastern Uttar Pradesh

- Intercultural operation in the crop field is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

Odisha

Amount of rainfall received over Odisha is 1036.4 mm (2% excess) during of 01 June 2020 - 10 September 2020. The extended range rainfall forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) over Odisha is below normal for week-1 and week-2.

- Due to rainy weather condition, there is a chance of tikka disease incidence in groundnut crop. To manage, it is advised to spray Chlorothalonil 75% WP @ 400 g/acre or Mancozeb 75% WP @ 600 g/acre or Hexaconazole 5% EC @ 300 ml/acre.
- Also, there are chances of wilt disease in brinjal crop due to heavy rain. To manage, it is advised to drench the root zone and soil with combination of Tebuconazole 25.9% EC @ 200 ml/acre and Plantomycin @ 200 g/acre.

West Bengal

Amount of rainfall received over West Bengal is 961.8 mm (-4% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over West Bengal is below normal for week-1 and week-2.

- Due to hot and humid weather condition, there may be a chance of white fly in okra. To control, it is advised to spray Difenthiuron @ 0.75 g per litre of water.
- High humidity and cloudy weather condition are also congenial for the attack of downy mildew in bitter gourd and pointed gourd. It is advised to apply Ridomil Gold MZ (@ 2 g per litre to control the attack.

Jammu

Amount of rainfall received over Jammu is 375.1 mm (-26% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for hairy caterpillar in *kharif* pulse crops. Farmers are advised to spray Quinalphos @ 0.03% or Dichlorvos @ 0.05%.
- Under prevailing weather condition, farmers are advised to sow direct sown vegetables like methi, spinach beet, coriander, radish, carrot, beet root and spinach within first fortnight of September for better germination.

Rajasthan

Amount of rainfall received over East Rajasthan is 556.9 mm (-1% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over East Rajasthan is below normal for week-1 and above normal for week-2.

- For the management of bacterial blight in soybean, it is advised to spray Copper oxychloride @ 40g/15 litre water + Streptocycline @ 6g/15 litre water.

- Under prevailing weather condition, farmers are advised to go for transplanting of brinjal, tomato, chilli and early cauliflower on ridges of the field.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 562.5 mm (-19% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised for field preparation for sowing of early pea, sarson saag, radish, spinach and coriander.
- Farmers are advised to maintain room temperature 18-22°C and relative humidity around 85% for successful cultivation of mushrooms.
- Under prevailing weather condition, it is advised to resume picking in tea at 8-10 days interval to maintain the quality and productivity.

Uttarakhand

Amount of rainfall received over Uttarakhand is 908.1 mm (-15% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Due to excess soil moisture and rainy weather condition, farmers are advised to postpone the sowing of vegetable pea, spinach and methi.

Punjab

Amount of rainfall received over Punjab is 391.1 mm (-8% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Punjab is below normal for week-1 and week-2.

- Farmers are advised to regularly monitor the fungal foliar leaf spots in cotton crop. If disease is noticed, spray Amistar Top @ 200 ml in 200 litres of water per acre.
- Prevailing weather condition is highly suitable for planting fruit plants such as citrus, mango, litchi, guava, papaya, jamun, sapota, amla.

Gujarat

Amount of rainfall received over Gujarat is 934.1 mm (10% excess) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Gujarat is normal for week-1 and above normal for week-2.

- Continuous monitoring for shoot fly infestation in sorghum and maize crop is advised. If infestation observed above ETL, spray Imidacloprid 17.8 SL 5 ml per 10 liters of water.
- For the management of semi looper and spodoptera in castor crop, it is advised to spray

Dichlorovos 76 EC 10 ml or Methyl-o-demeton 25 EC 15 ml in 15 liters water.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 1126.5 mm (10% excess) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Chhattisgarh is normal for week-1 and below normal for week-2.

- Due to continuous rainfall and cloudy weather, there is a possibility of yellow stem borer infestation in paddy crop. To control, it is advised to spray Fipronil 5 % SC @ 1 litre per ha.
- For the management of leaf caterpillar and girdle beetle in soybean crop, it is advised to apply Trizophos 40% EC in 1 litre/ha or Flubendiamide 39.35% SC 150 ml/500 litres per ha.

Bihar

Amount of rainfall received over Bihar is 1004.3 mm (14% excess) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Bihar is above normal for week-1 and normal for week-2.

- Under present weather condition, nursery sowing of early varieties of cabbage is advised in North Bihar with varieties Pride of India, Golden Acre, Pusa mukta, Pusa agate, and early drum head.
- Monitoring of gundhi bug is advised in early sown rice. To control, it is advised to apply Folidol dust@10-15 kg per hectare in the early morning or late evening.

Jharkhand

Amount of rainfall received over Jharkhand is 801.4 mm (-12% deficit) during of 01 June 2020 - 10 September 2020. The extended range weather forecast provided for next two weeks (11 - 17 September and 18 - 24 September 2020) on rainfall over Jharkhand is normal for week-1 and below normal for week-2.

- Prevailing weather condition is favorable for cultivation of early potato with early varieties Kufri Ashoka and Kufri Pukhraj.
- Prevailing weather condition is congenial for the attack of gundhi bug insect in rice. To control, dusting of Chlorpyrifos or Quinolphos or Methyl Parathion dust @ 10 kg per acre is advised.

Disclaimer:

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