



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)



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



- Week 1 (18.09.2020 to 24.09.2020): North India and adjoining Uttar Pradesh, north Madhya Pradesh and adjoining regions will have large negative departure of rainfall. However, south peninsula and adjoining parts of central India will have above normal rainfall. Northeast India will also have above normal rainfall. Northwest India will have some rainfall.
- Week 2 (25.09.2020 to 01.10.2020): Over South peninsula and adjoining parts of west central India there will be above normal rainfall. There are some isolated pockets over northwest India, where the rainfall will be above normal. Northwest India will have some rainfall.



Maximum Temperature (Tmax)

• Week 1 (18.09.2020 to 24.09.2020) and Week 2 (25.09.2020 to 01.10.2020): Mostly normal to above normal Tmax over parts of central and northern India in week 1 and week 2.

Minimum Temperature (Tmin)

• Week 1 (18.09.2020 to 24.09.2020) and Week 2 (25.09.2020 to 01.10.2020): Except some parts of southeastern coastal region, Northeast India and the extreme north India, the Tmin will be slightly above normal over the country.

Strategic Agricultural Planning based on rainfall during next two weeks till 01 October 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 2003.3 mm (4% excess) during the period of 01 June 2020 - 17 September 2020. The extended range weather forecast for next two weeks (18 - 24 September and 25 September - 01 October 2020) is above normal for week-1 and week-2.

- Because of rainy weather condition, there is a chance of leaf blotch incidence in turmeric. To control, it is advised to spray 2 ml Contaf (Hexaconazole) in one litre of water.
- Due to increase in humidity, there is a chance of leaf rust disease in coffee. It is advised to apply 0.5% Bordeaux mixture or plant wax 20 EC @ one to two ml/litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 386.2 mm (36% excess) during the period of 01 June 2020 - 17 September 2020. The extended range weather forecast for next two weeks (18 - 24 September and 25 September - 01 October 2020) is normal for week-1 and 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 Chlorpyriphos 20% EC 1250 ml/ha or Emamectin benzoate 5% SG 190-220 g/ha.
- Prevailing weather condition is also congenial for sucking pest and fruit borer incidence in chilli. It is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 879.6 mm (30% excess), Marathwada is 736.2 mm (23% excess), Vidharbha is 804.5 mm (-10% deficit) and Konkan region 3411.1 mm (25% excess) during the period of 01 June 2020 - 17 September 2020. The extended range weather forecast for next two weeks (18 - 24 September and 25 September - 01 October 2020) over Vidharbha, Madhya Maharashtra, Marathwada and Konkan is above normal for week-1 and normal over Marathwada and above normal over Vidharbha, Madhya Maharashtra and Konkan for 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 pritiosum* 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 rainfall and humid weather condition, 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.
- Prevailing weather condition is congenial for wilting/blight in *kharif* pigeonpea. To control, drenching with Copper oxychloride 50% WP @ 25 g or Captan 75% WP @ 20 g in 10 litres of water is advised.

Konkan

- Due to cloudy and humid weather condition, there is a possibility for incidence of rhizome fly in turmeric. To control, earthing up and drench of Chlorpyriphos 20% EC @ 20 ml per 10 litres of water is advised.
- 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.

Hisar

Amount of rainfall received over Hisar is 376.3 mm (-12% deficit) during of 01 June 2020 - 17 September 2020. The extended range rainfall forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) over Hisar is below normal for week-1 and 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 condition, 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 - 17 September 2020 over South Interior Karnataka is 744.9 mm (22% excess) and North Interior Karnataka is 637.1 mm (51% excess). The extended range weather forecast for next two weeks (18 - 24 September and 25 September - 01 October 2020) over South Interior Karnataka is normal and North Interior Karnataka is above normal for week-1 and below normal over South Interior Karnataka and normal over North Interior Karnataka for 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.

Assam

Amount of rainfall received over Assam is 1868.9 mm (13% excess) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Assam is above normal for week-1 and 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.
- For the management of mosaic and leaf curl disease in papaya crop, it is advised to rogue out the affected plants and spray Malathion 0.1% solution during clear weather condition.

Uttar Pradesh

Rainfall received during of 01 June 2020 - 17 September 2020 over East Uttar Pradesh 690.8 mm (-12% deficit) and West Uttar Pradesh is 445.6 mm (-35% deficit). The extended range weather forecast for next two weeks (18 - 24 September and 25 September - 01 October 2020) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and normal over East Uttar Pradesh and below normal over 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 @ 250 g/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 Tapeshvari.

Eastern Uttar Pradesh

- Intercultural operation in the crop field is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.
- Farmers are advised to vaccinate the animals against foot and mouth diseases.

Odisha

Amount of rainfall received over Odisha is 1060.8 mm (-1% deficit) during of 01 June 2020 - 17 September 2020. The extended range rainfall forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) over Odisha is below normal for week-1 and normal for 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.
- Prevailing weather condition is congenial for sucking pest in okra. To control, spray of Azadirachtin 1500 ppm @ 600 ml/acre or Thiamethoxam 25% WG @ 40 g/acre or Acetamiprid

20% SP @ 50g/acre by mixing it in 200 litres of water is advised.

Jammu

Amount of rainfall received over Jammu is 375.1 mm (-29% deficit) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for plant hopper in rice crop. Farmers are advised to install pheromone traps @ 1/kanal or spray Imidacloprid 200 SL @ 6.25 ml/kanal.
- Due to prevailing dry weather condition, there is a chance of termite attack in maize. To control, it is advised to spray Carbofuran/Cartap @ 1kg/kanal or soil application of Chloropyriphos 5% dust.

Rajasthan

Amount of rainfall received over East Rajasthan is 564.7 mm (-3% deficit) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over East Rajasthan is normal for week-1 and above normal for week-2.

- For the management fall army worm in maize, it is advised to spray Emamectin benzoate 5 SG @ 0.4 g/litre of water.
- Farmers are advised to prepare fields for sowing of mustard under conserved moisture with varieties RGN-73, Bio-902, Aashirwad, RH-9304, RH-9802, RH-8812, DRMRIJ-31.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 563.6 mm (-22% deficit) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 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, radish, spinach and coriander.
- Farmers are advised to maintain room temperature 18-22 °C and relative humidity around 85% for successful cultivation of mushrooms.
- Present weather is congenial for the attack of pink eye disease in newly born calves. It is advised to prepare the solution of 1% boric acid in boiled water and wash eyes at regular interval of three hours.

Punjab

Amount of rainfall received over Punjab is 391.3 mm (-11% deficit) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Punjab is below normal for week-1 and week-2.

• For the management of fall armyworm on maize crop, it is advised to spray Coragen 18.5 SC @

0.4 ml per litre water or Delegate 11.7 SC @ 0.5ml per litre or Missile 5SG @ 0.4g/litre using 120 litres of water per acre for crop.

• Prevailing weather condition is highly suitable for transplanting of mid season cauliflower and sowing of carrot, broccoli, chinese cabbage and spinach.

Gujarat

Amount of rainfall received over Gujarat is 965.1 mm (10% excess) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Gujarat is above normal for week-1 and week-2.

- Due to humid weather condition, there is a chance of incidence of sigatoka disease in banana. It is advised to spray Carbendazim 50 WP @ 10 g or Propiconazole 25 EC @ 5 ml in 10 liters water at 15 days interval.
- For the management of collar rot and stem rot in groundnut, it is advised to apply *Trichoderma* @ 2.5 kg/ha with 500 kg/ha castor cake or apply Carbandazim 0.05% @ 15 g/15 liters water.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 1153.8 mm (7% excess) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Chhattisgarh is normal for week-1 and week-2.

- To prevent fruit shedding in papaya crop, farmers are advised to spray Nepthalene Acetic Acid (NAA) @ 20 ppm.
- 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 1067.6 mm (14% excess) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Bihar is normal for week-1 and above normal for week-2.

- Monitoring is advised for yellow vein mosaic virus disease in green gram and black gram. If infestation is observed, spray Imidacloprid @ 0.3ml/litre of water or Trizofos 40 EC @ 1 ml /litre of water.
- Under present weather condition, it is advised to continue the sowing of radish with recommended varieties Pusa chetki, Pusa desi, Jounpuri, Pusa himani, Japani safed, Pusa rashmi, Punjab safed and Arka nishant.

Jharkhand

Amount of rainfall received over Jharkhand is 813.8 mm (-16% deficit) during of 01 June 2020 - 17 September 2020. The extended range weather forecast provided for next two weeks (18 - 24 September and 25 September - 01 October 2020) on rainfall over Jharkhand is below normal for week-1 and 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 corn worm in maize. To control, spraying of neem based insecticide @ 2-3 ml per/litre of water is advised.

Disclaimer:

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