



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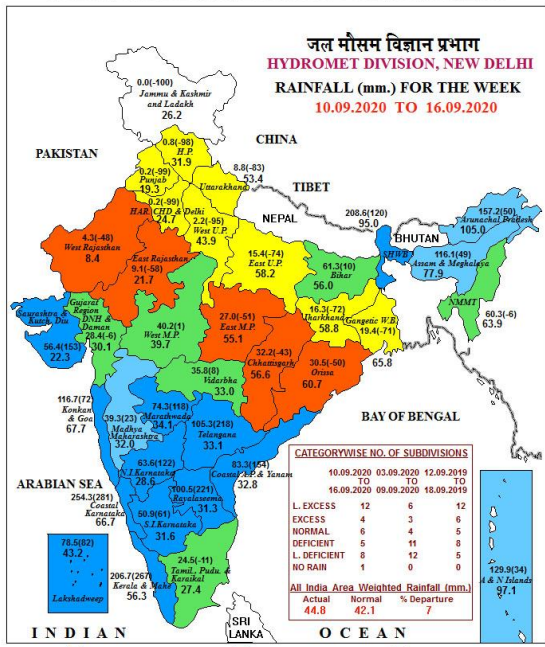
**India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

(10th to 23rd September, 2020)

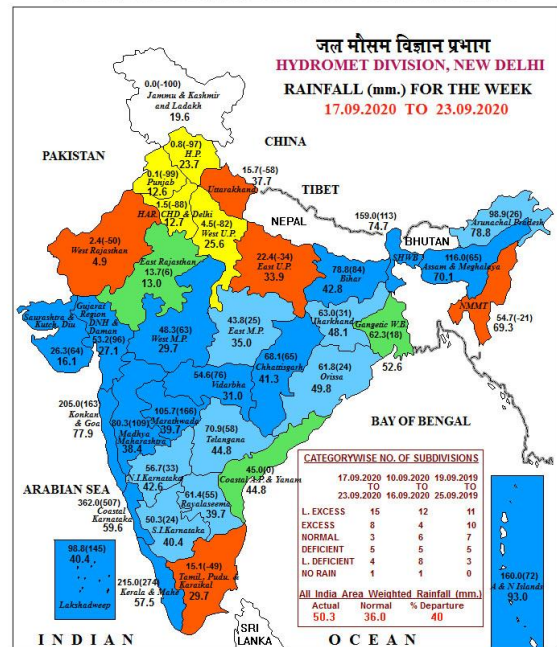
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
L. DEFICIENT (-20% TO -59%) NO RAIN (-100%) NO DATA

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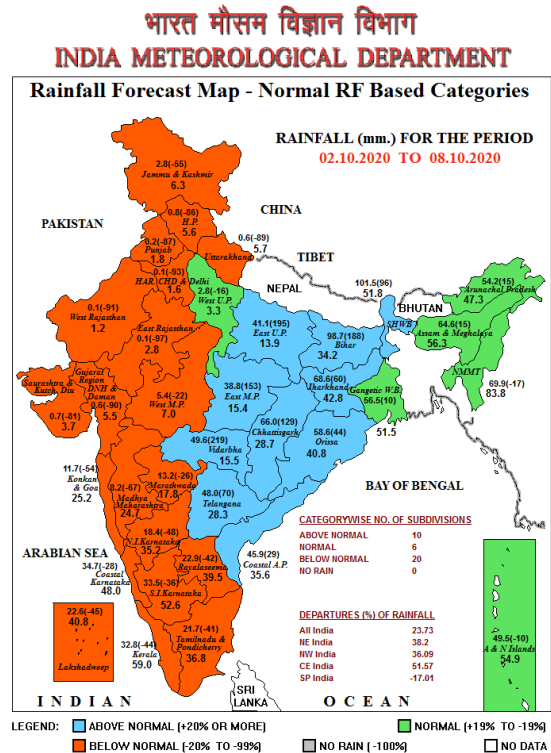
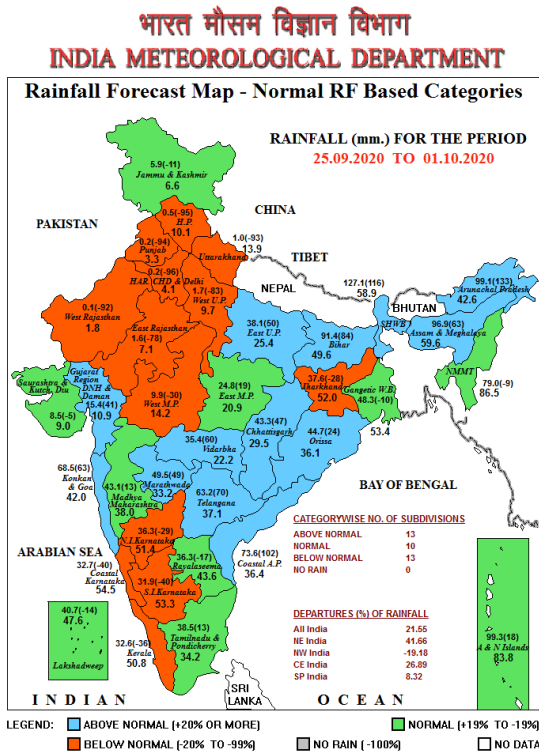
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NOTES:
[a] Rainfall figures are based on operational data.
[b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred in both the weeks in Arunachal Pradesh, Assam & Meghalaya, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Saurashtra & Kutch, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Andaman & Nicobar Islands and Lakshadweep.
- Normal or above normal rainfall occurred in either of the weeks in East Rajasthan, Jharkhand, Gangetic West Bengal, Odisha, Nagaland Manipur Mizoram & Tripura (NMMT), Chhattisgarh and Tamil Nadu Puducherry & Karaikal.
- Below Normal rainfall /no rain occurred in Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, West Rajasthan and Uttar Pradesh.

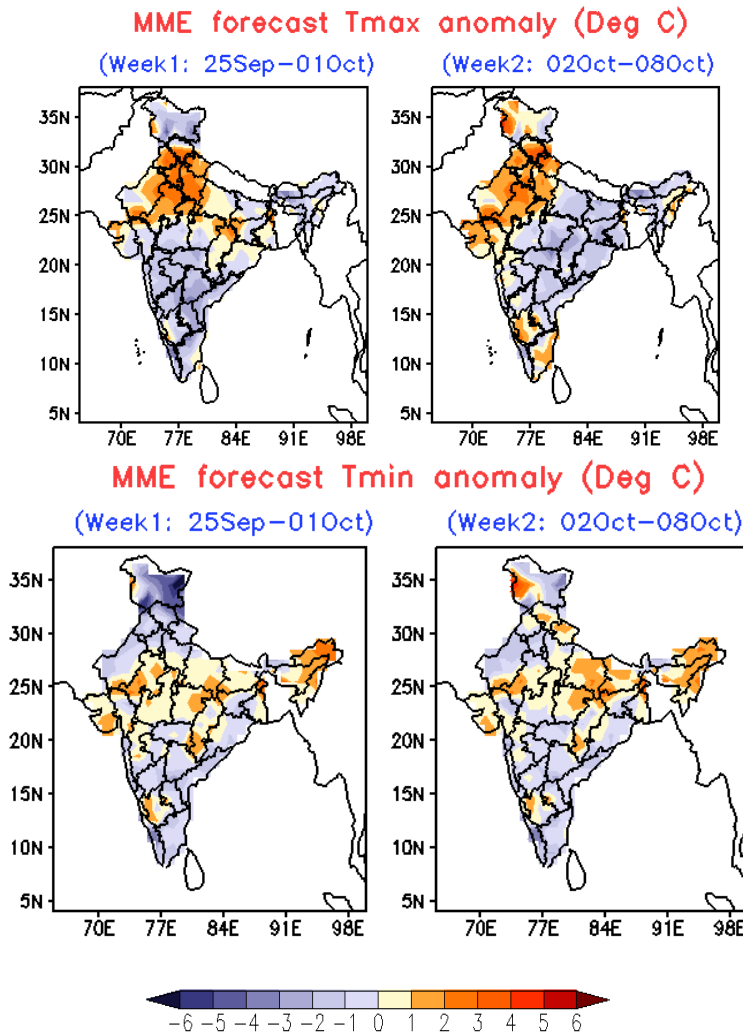
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –23 September) (25th Sept. to 8th October, 2020)



- Week 1 (25.09.2020 to 01.10.2020):** Below normal rainfall likely over Northwest parts of India in week 1 and week 2. Thus, commencement of withdrawal of monsoon to begin from northwest India during middle of week 1. There could be light rainfall over extreme north India (Jammu & Kashmir and Ladakh (UTs)) in week 1. Rainfall over south Gujarat & adjoining Konkan region, eastern parts of India, adjoining central belt of India & Indo-Gangetic plain will have above normal rainfall during week 1.
- Week 2 (02.10.2020 to 08.10.2020):** Above normal rainfall likely over eastern belt of India covering Odisha, Gangetic West Bengal, Jharkhand, Bihar, Uttar Pradesh, Chhattisgarh, East Madhya Pradesh and adjoining regions.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC -23 September)
(25th Sept. to 8th October, 2020)**



Maximum Temperature (Tmax)

- **Week 1 (25.09.2020 to 01.10.2020) and Week 2 (02.10.2020 to 08.10.2020):** Northwest India will have above normal Tmax in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (25.09.2020 to 01.10.2020) and Week 2 (02.10.2020 to 08.10.2020):** Except some parts of south-eastern coastal region, Northwest 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 08 October 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 2212.5 mm (11% excess) during the period of 01 June 2020 - 24 September 2020. The extended range weather forecast for next two weeks (25 September - 01 October and 02 - 08 October 2020) is below normal for week-1 and week-2.

- Under prevailing rainy weather condition, there is a chance of soft rot disease in ginger. To control, it is advised to remove the infected plants and drench the soil with Copper oxychloride @ 2 g per 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 400.3 mm (28% excess) during the period of 01 June 2020 - 24 September 2020. The extended range weather forecast for next two weeks (25 September - 01 October and 02 - 08 October 2020) is normal for week-1 and below 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 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.
- Prevailing weather condition is favorable for smallpox and PPR diseases in goat. Farmers are advised to do proper vaccination for avoiding animal losses.

Maharashtra

Rainfall received over Madhya Maharashtra is 954.0 mm (33% excess), Marathawada is 833.3 mm (30% excess), Vidharbha is 843.0 mm (-9% deficit) and Konkan region 3621.6 mm (29% excess) during the period of 01 June 2020 - 24 September 2020. The extended range weather forecast for next two weeks (25 September - 01 October and 02 - 08 October 2020) over Vidharbha, Marathawada and Konkan is above normal and Madhya Maharashtra is normal for week-1 and over Marathawada, Madhya Maharashtra and Konkan is below normal and over Vidharbha is above normal for week-2.

Madhya Maharashtra

- Under prevailing weather condition, sowing of safflower and sunflower is advised. Recommended varieties of safflower viz., SSF-708 and PBNS-12 and sunflower viz., Phule Bhaskar.
- 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 pritosum* or *Telenomus remus* parasite per acre three times in one-week interval.

Marathawada

- Due to cloudy, humid and rainy weather condition, there is a chance of oily spot disease in pomegranate orchard. To control, spray of 1% Bordeaux mixture in pomegranate orchard is advised.
- Prevailing weather condition is also congenial for sigatoka disease in banana. For management, it is advised to spray Pyraclostrobin 20% WG @ 10 g per 10 liters of water during clear weather condition.

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 favourable for nursery sowing of tomato, brinjal, cabbage, cauliflower, spinach, fenugreek, radish, carrot, dolichos bean and ivy gourd.

Konkan

- Due to cloudy and humid weather condition, there is possibility of incidence of tea mosquito bug on new flush of cashewnut. If incidence is noticed, it is advised to spray Monocrotophos 36% SL @ 15 ml or Lambda cyhalothrin 5% EC @ 6 ml per 10 liters of water during clear weather.

Hisar

Amount of rainfall received over Hisar is 379.2 mm (-14% deficit) during of 01 June 2020 - 24 September 2020. The extended range rainfall forecast provided for next two weeks (25 September - 01 October and 02 - 08 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 - 24 September 2020 over South Interior Karnataka is 794.7 mm (22% excess) and North Interior Karnataka is 682.1 mm (47% excess). The extended range weather forecast for next two weeks (25 September - 01 October and 02 - 08 October 2020) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and week-2.

South Interior Karnataka

- 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.
- It is advised to vaccinate the cow against the Haemorrhagic Septecemia (HS) and Black Quarter (BQ) Disease at the age of six month old calf.

North Interior Karnataka

- 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 1997.3 mm (16% excess) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 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.
- Prevailing weather condition is favourable for sowing of mid season crop like cauliflower, broccoli, cabbage and knolkhon seeds in nursery seed bed.
- 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 - 24 September 2020 over East Uttar Pradesh 758.1 mm (-8% deficit) and West Uttar Pradesh is 454.0 mm (-36% deficit). The extended range weather forecast for next two weeks (25 September - 01 October and 02 - 08 October 2020) over East Uttar Pradesh is above normal and West Uttar Pradesh is below normal for week-1 and normal over West Uttar Pradesh and above normal over East 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 litres 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.

Odisha

Amount of rainfall received over Odisha is 1122.6 mm (normal rainfall) during of 01 June 2020 - 24 September 2020. The extended range rainfall forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) over Odisha is above normal for week-1 and week-2.

- Due to heavy rainfall, there are chances of phomopsis blight disease in brinjal crop. To manage, it is advised to spray Metalaxyl 8% + Mancozeb 64% WP @ 400 g/acre or Propineb 70% WP @ 400 g/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 (-32% deficit) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over Jammu is normal for week-1 and below normal for week-2.

- Due to high humidity and high temperature, there is a chance of incidence of brown spot in paddy. To control, spray of Mancozeb @ 0.25% is advised.
- 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 580.4 mm (-3% deficit) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over East Rajasthan is below normal for week-1 and week-2.

- Prevailing weather condition is congenial for bacterial blight in soybean. To control, spraying of Tabuconazole @ 2 g /litre of water is advised during clear weather.
- 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 564.5 mm (-25% deficit) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- 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.

Gujarat

Amount of rainfall received over Gujarat is 1027.7 mm (13% excess) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over Gujarat is above normal for week-1 and below normal for week-2.

- For the management of mosaic virus in papaya, farmers are advised to uproot and destroy heavily infected papaya plant and spray Neem oil @ 1 ml/litre water or Dimethoate 30 EC 10 ml in 10 litres of water.
- 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.

Bihar

Amount of rainfall received over Bihar is 1181.6 mm (21% excess) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- Monitoring is advised for brown plant hopper (BPH) in paddy crop. If infestation is observed, spray Imidacloprid 17.8 % SC @ 1.0 ml/3 litres 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 886.2 mm (-13% deficit) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over Jharkhand is below normal for week-1 and above 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 in rice. To control, dusting of Chlorpyrifos or Quinolphos or Methyl Parathion dust @ 10 kg per acre is advised.

Uttarakhand

Amount of rainfall received over Uttarakhand is 939.1 mm (-19% deficit) during of 01 June 2020 - 24 September 2020. The extended range weather forecast provided for next two weeks (25 September - 01 October and 02 - 08 October 2020) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of garlic and onion and field preparation for potato sowing is advised.

Disclaimer:

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