



National Agromet Advisory Service Bulletin
Based on
Extended Range Weather Forecast (ERFS)

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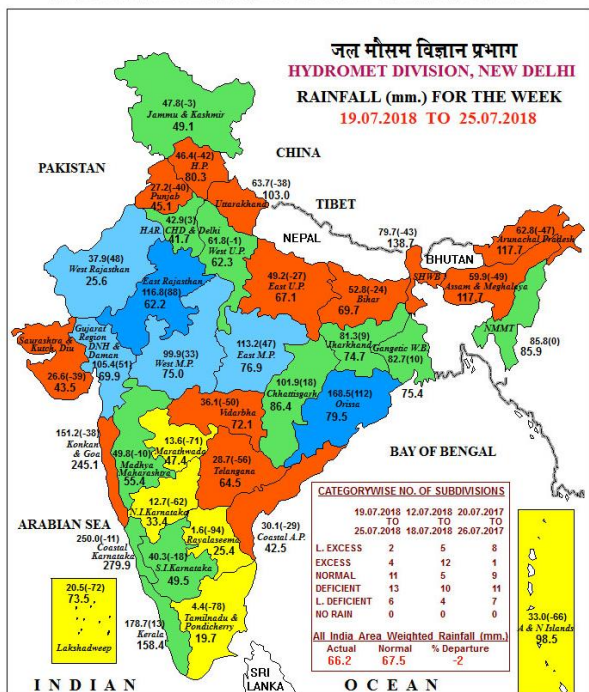
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&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

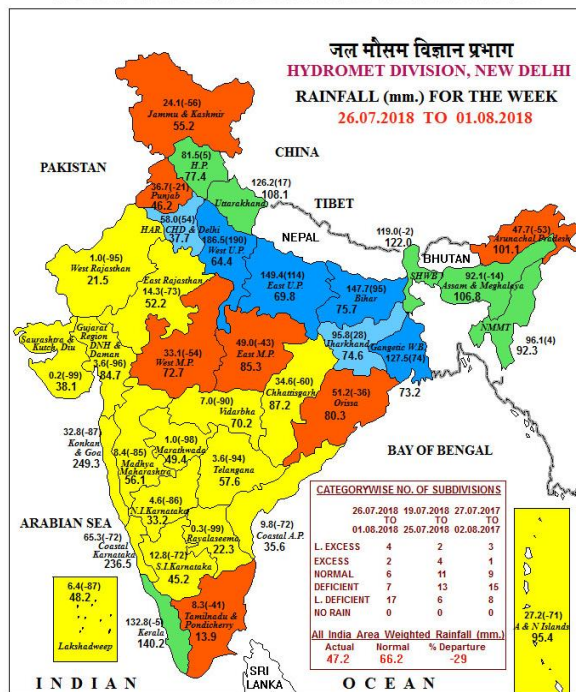
Realized Rainfall

(19th July to 1st August 2018)

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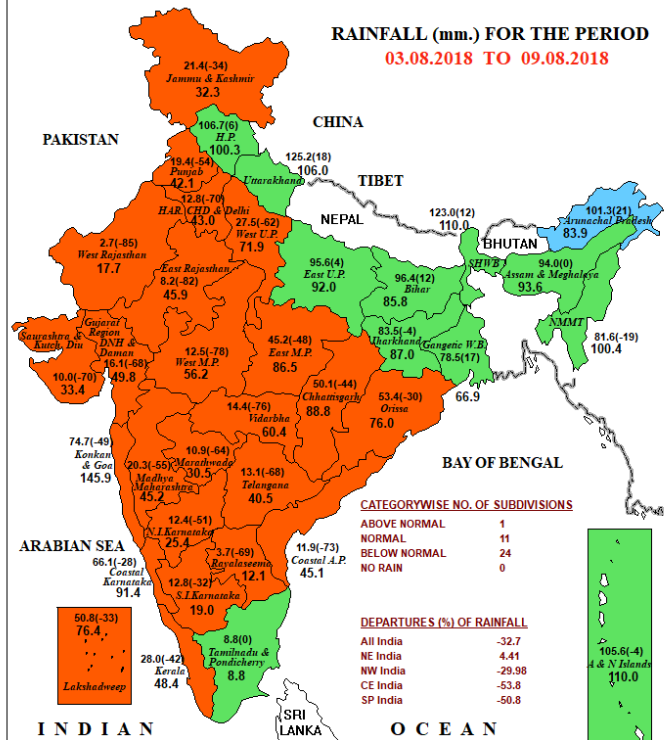
- Normal or above normal rainfall occurred during last two weeks in Haryana Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Kerala.
- Normal or above normal rainfall occurred in either of the last two weeks in Jammu & Kashmir, Himachal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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 01 August) (3rd to 16th August 2018)

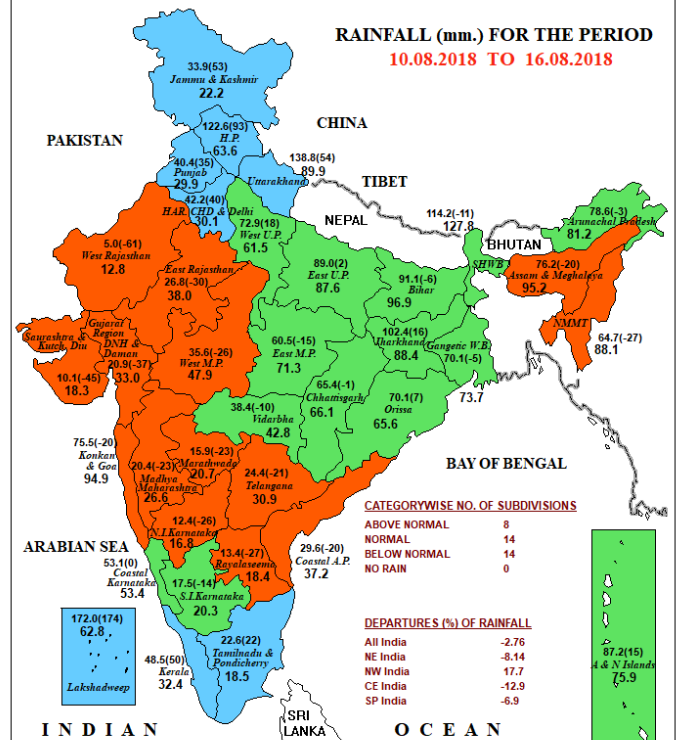
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Rainfall Forecast Map



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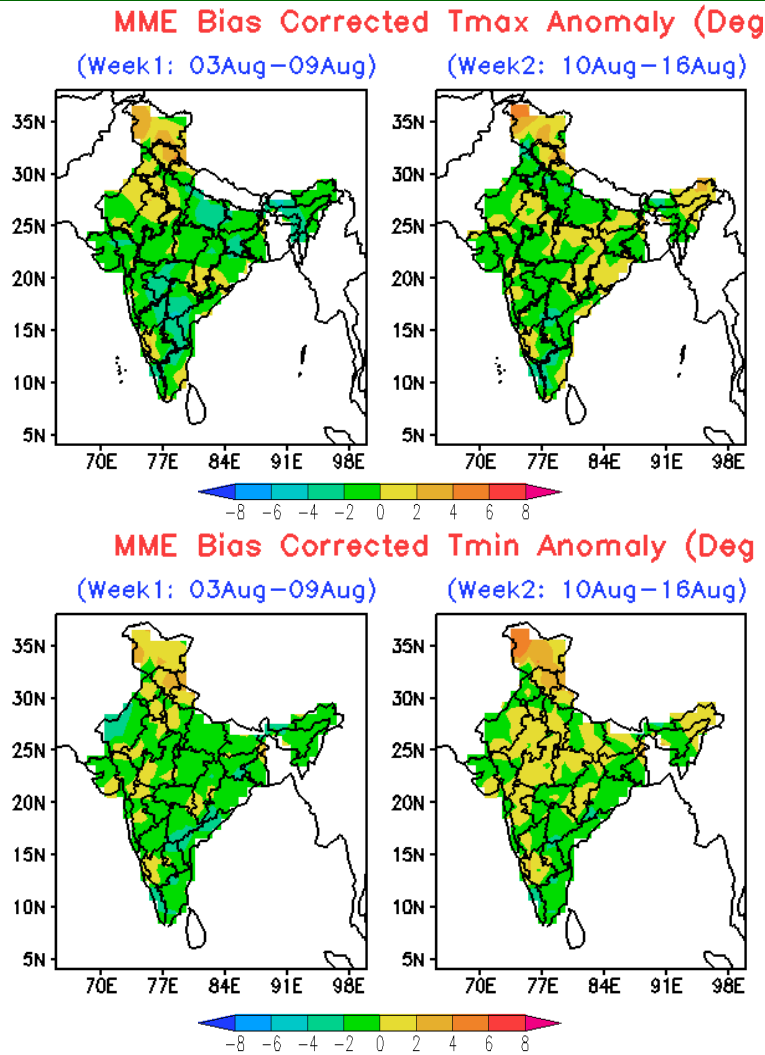
Rainfall Forecast Map



Extended Range Rainfall Forecast

- **Week 1 (03.08.2018 to 09.08.2018):** Monsoon rainfall over parts of eastern and north eastern India will be normal to above normal with slight positive anomaly over Tamil Nadu during the week. However, major part of Northwest India, central India and adjoining south peninsula will be below normal. For the country as a whole, it will be below normal rainfall.
- **Week 2 (10.08.2018 to 16.08.2018):** Improvement of rainfall over most of India from week 1, compared with all India rainfall most likely to be normal.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast for next 2 weeks (IC – 01 August)
(3rd to 16th August 2018)**



Tmax (Maximum Temperature)

- **Week 1 (03.08.2018 to 09.08.2018) and Week 2 (10.08.2018 to 16.08.2018):** Mostly normal to below normal Tmax.

Tmin (Minimum Temperature)

- **Week 1 (03.08.2018 to 09.08.2018) and Week 2 (10.08.2018 to 16.08.2018):** Mostly normal to below normal Tmin.

Strategic Agricultural Planning based on rainfall during next two weeks till 16th August 2018

Agromet Advisories

Kerala

Rainfall received during the period from 01 June to 02 August 2018 over Kerala is 1642 mm, which is 16% excess than normal. The extended range weather forecast provided for next two weeks [03 to 09 August (week-1) and 10 to 16 August (week-2)] are below normal for week-1 and above normal for week-2.

- Due to continuous rain, there is a chance of bud rot disease in coconut palm. Small perforated sachet containing 2 g of Mancozeb may be tied to the top crown portion and leaf axil.
- Rice is in panicle initiation stage. Due to continuous cloudy condition, there is a chance of leaf folder attack in paddy. Use 2CC trichogramma cards per acre to control leaf folder and stem borer.

Karnataka

Rainfall received during the period from 01 June to 02 August 2018 over different meteorological subdivisions of Karnataka viz, North Interior Karnataka is 198.5 mm (20% deficit), South Interior Karnataka is 383 mm (3% excess) and Coastal Karnataka is 2077.5 mm (1% deficit). The extended range weather forecast provided from 03 to 09 August and 10 to 16 August over north interior Karnataka is below normal for both the weeks and over coastal and south interior Karnataka is below normal for week-1 and normal for week-2.

North Interior Karnataka

- Plough the land which is kept fallow for sowing of *rabi* crops across the slopes so as to facilitate better conservation of soil and soil moisture.
- Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.
- Vaccinate (ET vaccine) sheep and goats against Enterotoxemia.

South Interior Karnataka

- As wind speed is high, farmers are advised to postpone the spraying operation in field and horticultural crops.
- Wherever, long duration crops like pigeonpea and castor were sown, undertake earthing up operation. Earthing up conserves soil moisture.

Tamil Nadu

Rainfall received during the period of 01 June to 02 August 2018 over Tamil Nadu is 114 mm, which is 3% deficit as compared to the normal. The extended range weather forecast provided for next two weeks is normal for week-1 and above normal for week-2.

- Prevailing weather condition is favourable for sucking pest and fruit borer incidence in chilli. The affected plants show symptoms of crinkling and upward curling of leaves and elongation of petiole. For controlling this pest spray Imidacloprid 17.8 % SL @ 3 ml/ 10 litre of water or Dimethoate 30 % EC @1.0 ml/litre, after the forecasted spell of rainfall.
- Prevailing weather condition is favorable for panama wilt disease incidence, for controlling this trench banana with carbendazim @ 2g/lit of water.

Andhra Pradesh

Amount of rainfall received over Rayalaseema region is 98 mm (42% deficit) and Coastal Andhra Pradesh is 287 mm (6% excess) during 01 June to 02 August 2018. The extended range weather forecast provided for two weeks for Rayalaseema and Coastal Andhra Pradesh is below normal for both the weeks.

- Farmers are advised to apply Iron sulphate @ 5g/l and citric acid for preventing iron deficiency in paddy nurseries; 1% urea in cotton (foliar spray) and top dressing of 30kg/acre urea in maize for quick recovery.
- As deficit rainfall is forecasted, farmers are advised to provide irrigation to crops, wherever possible.
- Farmers are suggested to wait for sowing of maize, ragi, bajra, redgram, greengram, blackgram and planting of sugarcane in North Coastal AP and Godavari, Krishna districts as below normal rainfall is forecasted for next two weeks.

Maharashtra

Rainfall received during 01 June to 02 August 2018 over different meteorological sub divisions of the state viz., Konkan: 2235 mm (19% excess), Madhya Maharashtra: 432 mm (7% excess), Vidarbha: 535 mm (7% excess) and Marathwada: 306 mm (11% deficit). The extended range weather forecast provided for next two weeks for Vidarbha is below normal for week-1 and normal for week-2 and for Madhya Maharashtra, Marathwada and Konkan regions it is below normal for both the weeks.

Marathwada

- To control pink bollworm in cotton, take a spray of Profenofos 50% @ 20 ml or Profenofos 40% + Cypermethrin 4% @ 20 ml per 10 litre of water.
- To control aphids in black gram/green gram, take a spray of Dimethoate 30% @ 12 ml per 10 liter of water. Protective irrigation should be applied as per requirement of crop and availability of water with the help of sprinkler irrigation system.
- To control stem borer infestation in maize, soil application of Carbofuran 3 % @ 13 kg per acre should be followed.

Madhya Maharashtra

- To control aphids on *kharif* green gram, black gram and other crops, spray Dimethoate/Methyl demeton @ 15-20 ml/ 10 l of water.
- Provide protective irrigation through sprinkler to already sown crops, where long dry spell is prevailing

Vidarbha

- In cotton, undertake intercultural operations (weeding/hoeing) at optimum soil moisture for effective weed control. Apply top dressing of nitrogen fertilizer to one month old cotton crop @ 40 kg N/ha for irrigated Bt cotton, 35 kg N/ha for irrigated hybrid cotton, 30 kg N/ha for rained Bt cotton and 20 kg N/ha for desi improved variety.

Andhra Pradesh

Amount of rainfall received over Rayalaseema region is 97.5 mm (41% deficit) and Coastal Andhra Pradesh is 281.8mm (5% excess) during 01 June to 01 August 2018. The extended range weather forecast provided for two weeks (03 to 09 August and 10 to 16 August) for Rayalaseema and Coastal Andhra Pradesh is below normal for both the weeks.

- Farmers of Kadapa, Kurnool, Ananthapuramu districts are advised not to take up sowing of rainfed groundnut during August month as there will be considerable yield decrease in late sown crop.
- Farmers of Kadapa, Kurnool, Ananthapuramu, Prakasam districts are advised to take up sowing of contingency crops like bajra, jowar, kora, castor, redgram, field bean, cowpea, horsegram only after receipt of sufficient rainfall.
- Pinkboll worm incidence is observed in western mandals of Kurnool district in early sown (May, June) cotton crop. Farmers are advised to observe rosette flowers and sampling of green bolls regularly for monitoring. If incidence is noticed spraying of Quinalphos@ 2ml/lit or Chlorpyrifos@ 2.5 ml/ lit or Thiodicarb @1g/lit is recommended. Destroy rosette flowers and remove the dropped squares, dried flowers and prematured bolls to suppress the pest population periodically.

Chhattisgarh

Rainfall received over Chhattisgarh during 01 June to 02 August 2018 is 557 mm, which is 6% deficit. The extended range weather forecast provided for next two weeks is below normal for week-1 and normal for week-2.

- Before transplanting by automatic paddy transplanter, shallow ploughing of the fields should be done. This can be completed through tractor mounted rotary puddler.
- Sugarcane requires intercultural operations and earthing. Ensure proper drainage in the sugarcane fields to minimize outbreak of sugarcane plant hopper.

West Bengal

546 mm of rainfall received over Gangetic West Bengal during 01 June to 02 August 2018 which is 9% deficit as compared to normal. The extended range weather forecast provided for next two weeks is normal for both the weeks.

- Continue the transplanting operation in *aman* rice. Keep the land weed free. Maintain one inch stagnant

water in the field from 5-7 days after transplanting. Farmers who are yet to transplant seedlings are advised not to apply higher dose of urea before transplanting.

- The present weather condition is favorable for infestation of thrips and mite in chilli. Spray of Diafenthiuron @ 1.25 gm/litre of water is recommended.

Bihar

Rainfall received over Bihar during 01 June to 02 August 2018 is 413 mm, which is 23% deficit. The extended range weather forecast provided for next two weeks is normal for both the weeks.

- Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop.
- Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15 x 10 cm. Farmers are advised to remove weeds from late sown onion nursery.

Gujarat

Amount of rainfall received over Gujarat region is 468 mm (5% deficit) and Saurashtra and Kutch is 229 mm (19% deficit) during 01 June to 02 August 2018. The extended range weather forecast provided for two weeks for both Gujarat region and Saurashtra & Kutch is below normal for both the weeks.

- Pest and disease infected plants should be removed from field.
- Mulching should be used to conserve soil moisture.
- Depending on the availability of irrigation water, life-saving irrigation can be provided to the crop in alternative furrows.

Rajasthan

Amount of rainfall received over East Rajasthan region is 336.0 mm (11% excess) and West Rajasthan is 142 mm (3% excess) during 01 June to 02 August 2018. The extended range weather forecast provided for two weeks for East and West Rajasthan is below normal for both the weeks.

- In the paddy growing region, if top leaves of plants turned yellow and bottom leaves remained green, farmers may spray zinc sulphate solution (2.5 kg zinc sulphate dissolved in 500 litres of water / ha).
- Hoeing should be done in maize, groundnut, sorghum and soybean crops.
- Farmers are advised for sowing of guar, sesame and fodder crop where sowing could not done so far.

Assam

Rainfall received over Assam is 744 mm (31% deficit) during 01 June to 02 August 2018. The extended range weather forecast provided is normal for week-1 and below normal for week-2.

- Sowing of early maturing varieties of cauliflower like Early Kunwari, Pusa Katki and Pusa Deepali can be started in nurseries under a polyhouse. To make the soil free from soil-borne pathogens, farmers are suggested to drench the beds with 0.1% solution of Captan.
- Sugarcane: During this monsoon period, farmers are advised to provide mechanical support of bamboo sticks in order to prevent the plants from lodging due to high velocity wind.

- Farmers can plant the sucker, slip and crown of pine apple at a distance of 30, 60 and 90 cm from plant to plant, row to row & bed to bed respectively.

Punjab

Rainfall received over Punjab is 242 mm rainfall (2% deficit) during 01 June to 02 August 2018. The extended range weather forecast provided is below normal for week-1 and above normal for week-2.

- Apply irrigation to basmati rice, as below normal rainfall is forecasted from 3 to 9 August. Care should be taken that the field does not develop cracks. Apply second dose of nitrogen (1/3rd) 21 days after transplanting and third dose (1/3rd) 42 days after transplanting.
- Cover the rainy season tomato nursery with polynet to protect from white fly infestation.

Haryana

Haryana has received 215 mm of rainfall during 01 June to 02 August 2018, which is 4% deficit. The extended range weather forecast provided for next two weeks is below normal for week-1 and above normal for week-2.

- Sowing of Pearl millet and Cluster bean can be completed during week-2, as above normal rainfall is forecasted.
- Farmers are advised to take up intercultural operation for removal of weeds to conserve soil moisture in cotton field.
- Farmers are advised to keep animals under well ventilated place and provide clean drinking water and green forage as per requirement. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily with feed & green fodder to keep them healthy.

Jammu

Rainfall received during 01 June to 02 August 2018 over Jammu is 259 mm, which is 6% deficit. The extended range weather forecast provided for next two weeks over Jammu is below normal for week-1 and above normal for week-2.

- Farmers may go for earthing up in late sown maize. If stalk rot is observed, spray Mancozeb @ 0.25% during clear weather.
- In transplanted rice, if the crop is 25-30 days old, apply 2nd dose of nitrogenous fertilizer as top dressing.

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