



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

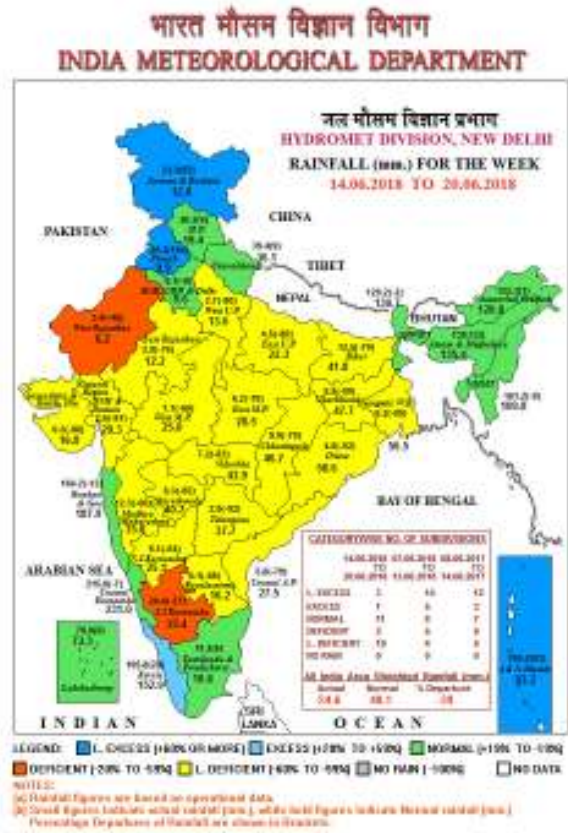
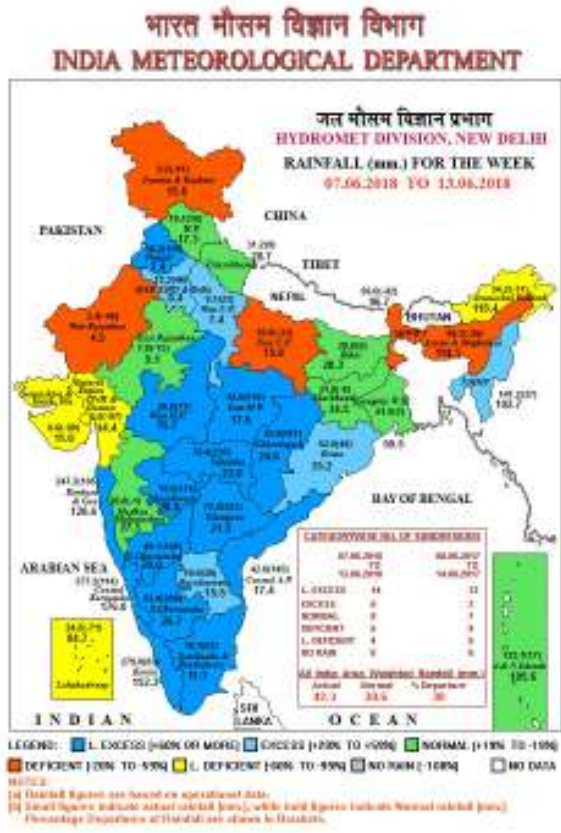
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&
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India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (7th June to 20th June 2018)



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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 20 June)

(22nd June to 5th July 2018)



Extended Range Rainfall Forecast

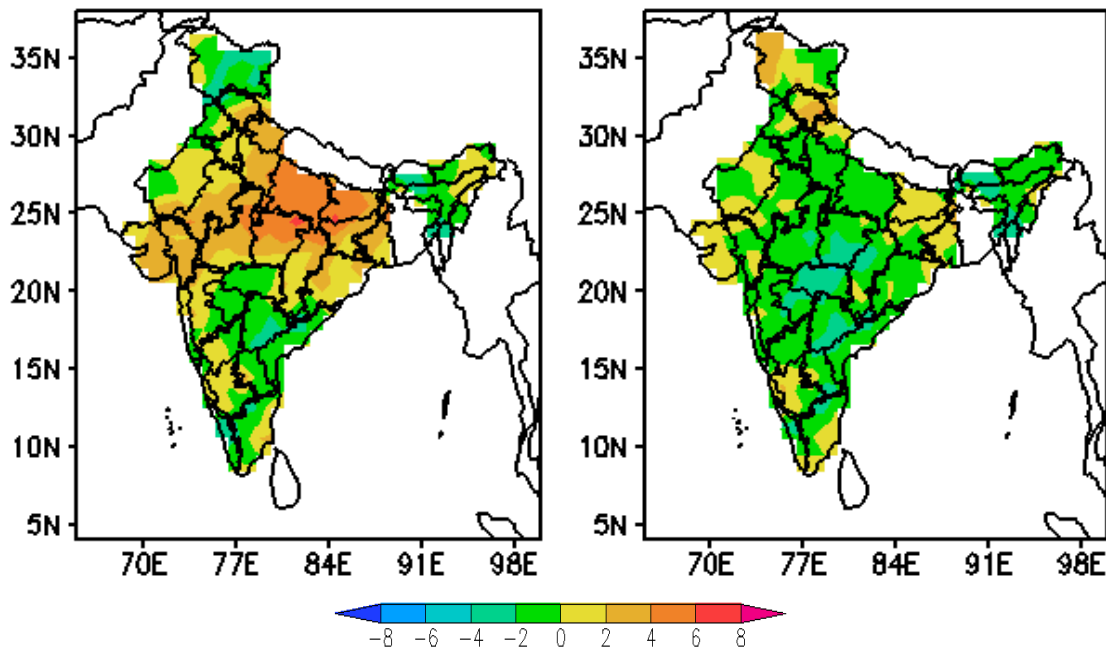
- **Week 1 (22.06.2018 to 28.06.2018):** Revival of monsoon over parts of central India (Odisha, south Chhattisgarh, Maharashtra and adjoining area) along with parts of south peninsula. However, rainfall over Northwest India and northern part of central India will remain subdued during the week 1.
- **Week 2 (29.06.2018 to 05.07.2018):** Northwest India and northern part of central India will remain subdued rainfall during the week 2. However, over south peninsula and adjoining parts of central India revival of monsoon is likely.

Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast for next 2 weeks (IC – 20 June)
(22nd June to 5th July 2018)

MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 22Jun–28Jun)

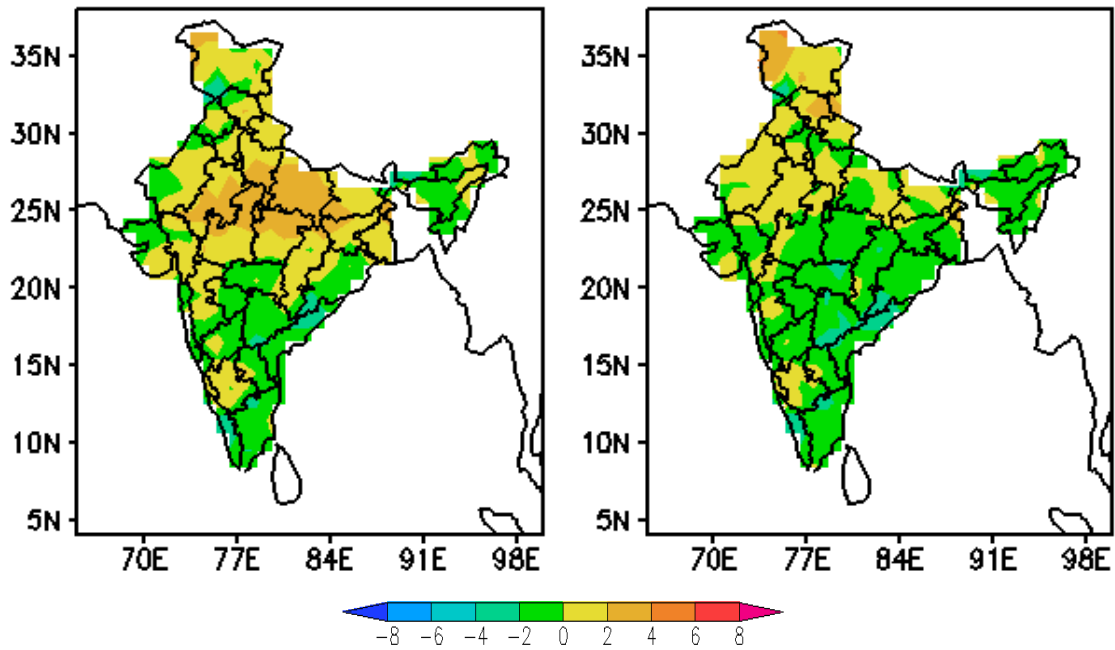
(Week2: 29Jun–05Jul)



MME Bias Corrected Tmin Anomaly (Deg)

(Week1: 22Jun–28Jun)

(Week2: 29Jun–05Jul)



Tmax (Maximum Temperature)

- **Week 1 (22.06.2018 to 28.06.2018)** : Tmax is likely to be above normal over central and northern parts of India.
- **Week 2 (29.06.2018 to 05.07.2018)**: Tmax is likely to be below normal over most of India, central and northern parts of India.

Tmin (Minimum Temperature)

- **Week 1 (22.06.2018 to 28.06.2018) and week 2 (29.06.2018 to 05.07.2018)**: Slightly above Normal Tmin over northern/northwest India and adjoining central India.

Strategic Agricultural Planning based on rainfall during next two weeks till 5th July 2018

Agromet Advisories

Tamil Nadu

Rainfall received during the period of 01 - 20 June 2018 over Tamil Nadu is 42.7 mm, which is 29% excess as compared to the normal. The extended range weather forecast provided for next two weeks (22 to 28 June and 29 June to 05 July) are below normal for week-1 and normal for week-2.

- Prevailing weather condition is favorable for sucking pest incidence in chilli with symptoms of crinkling and upward curling of leaves and elongation of petiole. Spray Imidacloprid 17.8 % SL @ 3 ml/ 10 litre of water or Dimethoate 30 % EC @1.0 ml/litre to control it.
- Current weather condition is favorable for pod borer incidence in pulses. To control spray Indoxacarb 15.8 % SC 333 ml/ha.
- To control the incidence of leaf folder in Paddy, spray Phosphamidon 40 SL 1250ml/ ha.

Kerala

Rainfall received during the period of 01- 20 June 2018 over Kerala is 546.7 mm, which is 35% excess than normal. The extended range weather forecast provided for next two weeks (22 - 28 June and 29 June to 05 July) are below normal for week-1 and week-2.

- **Coconut** : To control bud rot, three sachet of perforated Mancozeb (5 gm) can be hung around spindle leaves as a prophylactic measure for bud rot.
- **Banana** : Due to the pre monsoon showers, there is a chance of Sigatoka disease in banana. As a precaution, farmers are advised to spray Pseudomonas 20g/litre. In case of severe attack, spray 1 g Bavistin by mixing it with gum in 1 litre of water on lower surface of leaf.
- **Pepper** : There is a chance of Quick wilt disease due to high relative humidity. Apply trichoderma or pseudomonas culture in soil or spray 1% Bordeaux mixture both on the leaves and small branches.
- **Coffee** : Apply fertilizers @ 85 kg urea, 150 kg rock phosphate and 66 kg potash per hectare of coffee. Leaf rust disease may become severe due to increase in relative humidity.

Karnataka

Rainfall received during the period of 01 - 20 June 2018 over different meteorological sub-divisions of Karnataka viz, North Interior Karnataka is 88.8 mm (35 % excess), South Interior Karnataka is 145.8 mm (71% excess) and Coastal Karnataka is 635.3 mm (26% excess). The extended range weather forecast provided from 22 to 28 June and 29 June to 05 July over North Interior Karnataka is above normal for week-1 and normal for week-2, over South Interior Karnataka and coastal Karnataka is normal for both the weeks.

North Interior Karnataka

- Farmers are advised to take up sowing of *kharif* crops like greengram, black gram, soybean, maize, Bt. Cotton, redgram, bajra, sesamum and groundnut (bunch type).
- Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

South Interior Karnataka

- As high wind speed is prevailing in the region, provide staking support to Banana and vegetable crop to protect from uprooting of crops.

Maharashtra

Rainfall received during 01- 20 June 2018 over different meteorological sub divisions of the state *viz.*, Konkan: 472.2 mm (31% excess), Madhya Maharashtra: 66.8 mm (19% deficit), Vidarbha: 104.7 mm (32% excess) and Marathwada: 120.4 mm (37 % excess). The extended range weather forecast provided for next two weeks (22 to 28 June and 29 June to 05 July) are above normal both the weeks over all the meteorological sub-divisions of Maharashtra.

Marathwada

- **Black gram / Green gram** : As rainfall is forecasted next week, sowing of black gram/green gram may carried with spacing of 30 x 10 cm with a seedrate of 12-15 kg/ha.
- **Groundnut** : Sowing of bunch type groundnut should be done at 30 x 10 cm and spreading type at 45 x 15 cm. 100 – 120 kg / ha seed rate is required for bunch type and 80 kg / ha for spreading type.
- **Turmeric** : If rainfall is not received, plantation of turmeric crop should be done as early as possible with irrigation facility as delay sowing may result in reduction of yield.
- **Banana** : Give support to October planted banana trees with sticks.

Madhya Maharashtra

- Sowing of short duration pulses or cereals like cowpea, green gram, black gram, moth bean, urdbean or bajra are advised, if sufficient moisture is available in the field after rain.
- To avoid the incidence of pests (white grub, nematodes, termites etc) apply granular phorate mixed with fertilizers @ 10-12 kg /ha at the time of sowing.

Konkan

- If rice crop nursery is experiencing water stress, farmers are advised to irrigate the rice nursery.
- To control red palm weevil affected coconut, prepare a slanting hole with the help of screw drill at

about 1m height from ground level on tree trunk and pour about 20 ml of 36 % Monocrotophos with the help of plastic funnel in the hole and close the hole with the help of cement.

Vidarbha

- Sowing of *kharif* crops (cotton, greengram, blackgram, pigeonpea, sorghum, soybean) should be undertaken, if sufficient moisture for germination is available.
- Farmers are advised to continue seed bed preparation for nursery sowing of *kharif* rice in Eastern Vidarbha Zone.

Chhattisgarh

81mm of rainfall received over Chhattisgarh during 01- 20 June 2018 which is 3% deficit as compared to normal . The extended range weather forecast provided for next two weeks (22 to 28 June and 29 June to 05 July) are above normal for week-1 and normal for week-2.

- Vegetable growers are advised to arrange proper drainage facility in their field, as above normal rainfall is forecasted in next two weeks.
- Mulching should be done in ginger and turmeric crops.
- For protecting the poultry and livestock against the extreme heat stroke and high humidity conditions, dairy/ poultry farmers should use ventilating fans.

Jharkhand

54.4 mm of rainfall received over Jharkhand during 01 June to 20 June 2018 which is 45% deficit as compared to normal . The extended range weather forecast provided for next two weeks (22 to 28 June and 29 June to 05 July) are normal for week-1 and week-2.

- **Rice** : Short duration varieties like Birsa Dhan - 108, Birsa Vikas Dhan 109, 110 &111, Vandana etc. with seed rate of 40 kg/acre are recommended for direct seeding of rice.
- **Arhar** : Recommended varieties of Arhar (Pigeon pea) are Birsa Arhar-1, B.R.-65, Upas-120 and Bahar with seed rate of 8 kg/acre.

West Bengal

107.3 mm of rainfall received over Gangetic West Bengal during 01- 20 June 2018 which is 23% deficit as compared to normal . The extended range weather forecast provided for next two weeks (22 - 28 June and 29 June to 05 July) are normal for week-1 and below normal for week-2

- **Jute** : In the present weather situation, attacks of caterpillar and mite may be observed. For caterpillar control, no need of spraying insecticide. Only collect the insects for burning. For mite control, apply Monocrotophos (@ 1.5 ml per litre of water).
- **Aman Rice** : As there is forecast of light to moderate rainfall, farmers may start sowing of Aman rice

with seed rate of 7-8 kg/bigha. Improved varieties like IET-4094, 2233, Ratna, Bikash, Kitish, Sasya-shree, IR-42, Swarna, Mashuri, IET- 8002, etc are recommended.

Bihar

56.4 mm of rainfall received over Bihar during 01- 20 June 2018 which is 35% deficit as compared to normal . The extended range weather forecast provided for next two weeks (22 - 28 June and 29 June to 05 July) are below normal for week-1 and normal for week-2.

- In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots from the crop field.
- Weather is favourable for sowing of *khari*f vegetables if irrigation facility is available as there is forecast of below rainfall during week-1. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply cow dung @ 20-25 tonnes per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare.

Gujarat

Amount of rainfall received over Gujarat region is 5.9 mm (89% deficit) and Saurashtra and Kutch is 1.4mm (96% deficit) during 01 - 20 June 2018. The extended range weather forecast provided for two weeks (22 - 28 June and 29 June to 05 July) for Gujarat region and Saurashtra and Kutch is below normal for week-1 and above normal for week-2.

- Early-sowing of groundnut is advised to farmers which are having irrigation facility.
- Timely sowing of groundnut and cotton crop is advised after receipt of adequate rainfall receipt and Seed to be treated with Thiram or Captan before sowing.
- To control whitefly in vegetables, spray neem seed extract 500 ml or neem oil 40 ml and Acetamiprid 20% SP@5 g per 10 litres of water at 15 days interval during week-1.

Madhya Pradesh

Amount of rainfall received over West Madhya Pradesh is 41.3 mm (11% deficit) and East Madhya Pradesh is 56.5 mm (7% excess) during 01 - 20 June 2018. The extended range weather forecast provided for two weeks (22- 28 June and 29 June to 05 July) for West Madhya Pradesh and East Madhya Pradesh is below normal for week-1 and above normal for week-2.

- **Rice** : In irrigated areas, the sowing of seeds in the nursery to be done with fungicide treated seeds.
- **Soybean** : Prepare fields with broad-bed and furrows system along with proper water drainage system. Seeds should be treated with Thiamethoxam 30 FS (10 ml/kg seed) or Imidacloprid 48 FS (1.25 ml/kg seed) for preventing yellow mosaic virus disease.

Assam

Rainfall Situation

Rainfall received over Assam is 245.3 mm rainfall (26% deficit) during 01 June to 20 June 2018. The extended range weather forecast provided for (22 to 28 June and 29 June to 05 July) is normal for week-1 and week-2.

- **Rice:** Farmers are advised to sow the seeds of Sali rice in the nursery bed. The nursery bed should be of 10 m length and 1.25 m wide in levelled well puddled soil. About 6-7 such beds required to transplant one bigha of land.
- **Banana :** During this monsoon period, farmers may observe small spindle shaped spots on foliage with greyish centre running parallel to veins. To control this disease, spray Carbendazim at first appearance followed by 4 sprays at 30 days interval.

Punjab

Rainfall received over Punjab is 48.4 mm rainfall (130% excess) during 01 - 20 June 2018. The extended range weather forecast provided for (22 - 28 June and 29 June to 05 July) is below normal for week-1 and normal for week-2.

- Farmers are advised to start transplanting of Paddy. Before transplanting, treat the paddy nursery with Azorhizobium for 45 minutes and transplant immediately.
- Brinjal fruit and shoot borer attack can be checked by spraying 800 ml Quinalphos or 500 ml Triazophos in 100-125 ml of water per acre.
- Due to dry weather during week-1, mite may damage the fruit quality in pear and citrus, spray Fosmite @ 2.0 ml @ 1.5 ml or Rogor @ 1.33 ml per litre of water.

Haryana

Haryana has received 26.2 mm of rainfall during 01 - 20 June 2018, which is 18% excess. The extended range weather forecast provided for next two weeks (22 - 28 June and 29 June to 05 July) is below normal for week-1 and above normal for week-2.

- **Rice:** Apply frequent need based irrigation in rice nursery. Prepare the field for rice transplanting.
- **Moong:** Farmers are advised to harvest the crop before shattering of seeds in moong.

Jammu

Rainfall received during 01 - 20 June 2018 over Jammu is 41.2 mm, which is 7% excess. The extended range weather forecast provided for next two weeks (22 to 28 June (week-1) and 29 June to 05 July (week-2) over Jammu is above normal for week-1 and below normal for week-2.

- Initiate land preparation of the fields where rice seedlings are to be transplanted and also apply the recommended quantity of well rotten FYM/Compost @ 15 tonnes/ha with the first ploughing for its better mixing.

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