



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

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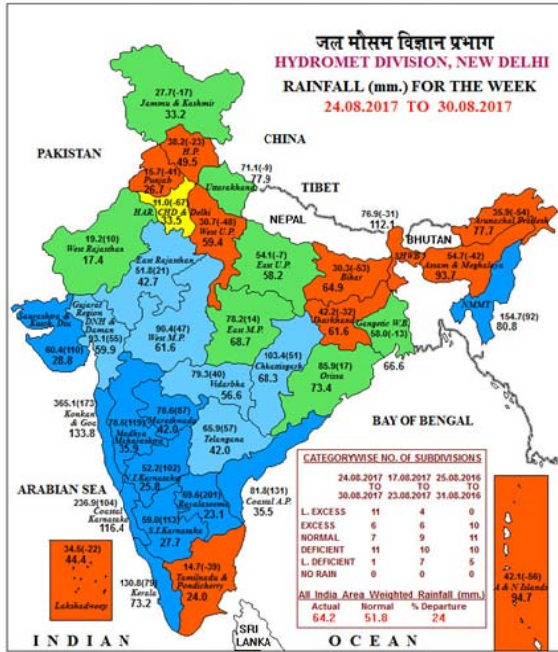
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&
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India Meteorological Department

Realized Rainfall and Extended Range Forecast

Realized Rainfall

(24th August to 6th September 2017)

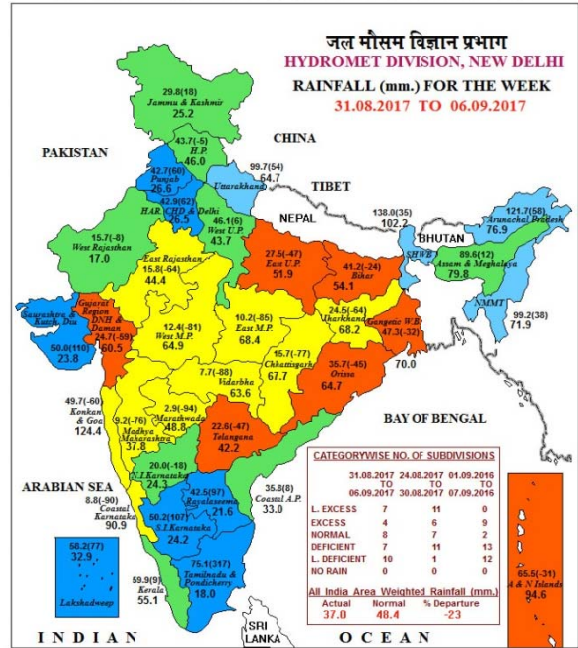
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%) DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) 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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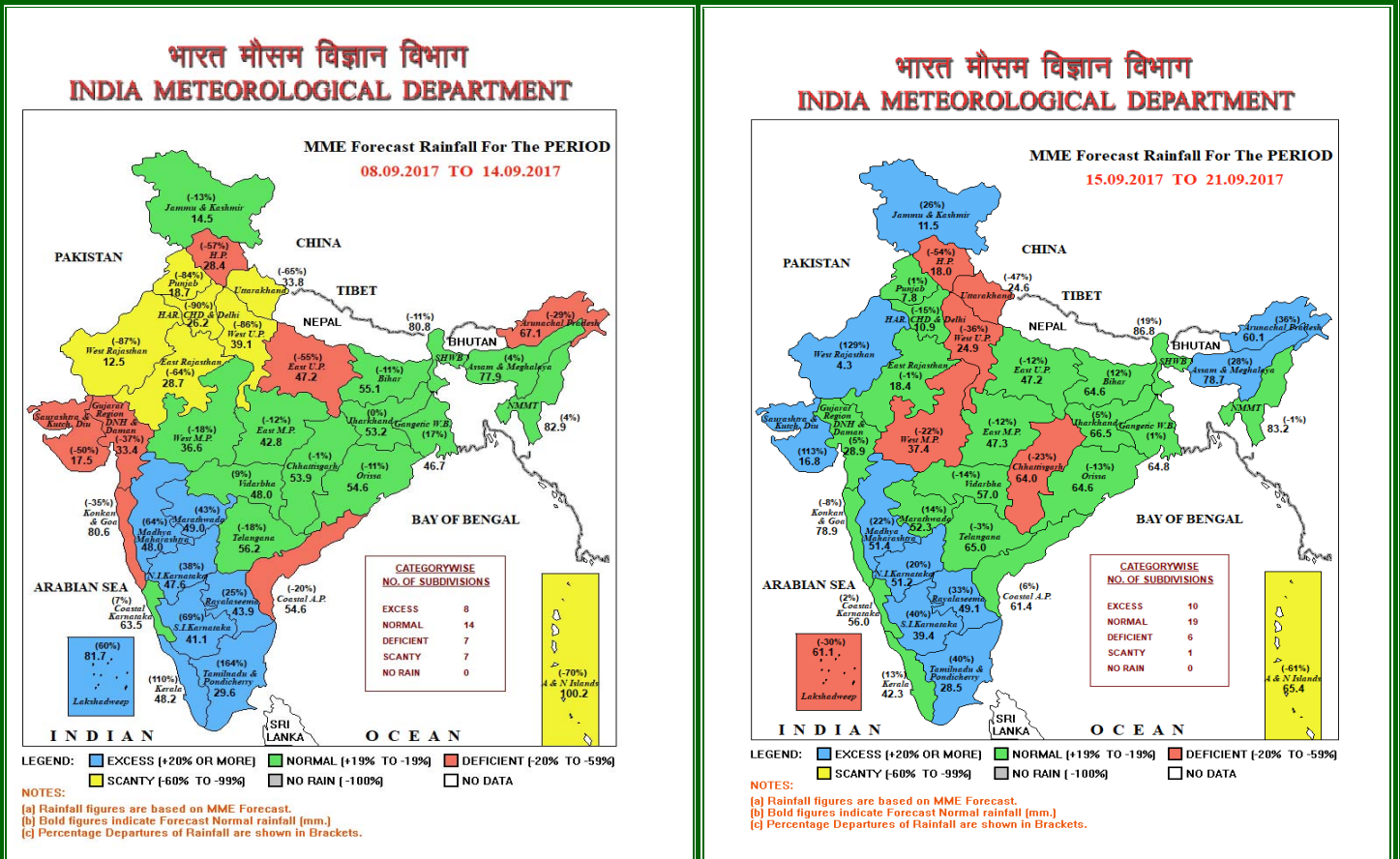
NOTES:
[a] Rainfall figures are based on operational data.
[b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

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

Below normal rainfall occurred in the last two weeks over Bihar, Jharkhand and Andaman & Nicobar Islands.

Extended Range Forecast System

Subdivision-wise rainfall forecast maps for the next 2 weeks (IC – 06 September) (8th to 21st September 2017)



- Extended Range Forecast (ERF) indicates that, during week 1 (08 – 14 September), above normal rainfall is expected over southern Peninsula (mainly over Tamil Nadu, Rayalaseema, Kerala, Karnataka), Maharashtra and southern parts of north-eastern states with normal rainfall likely over Chhattisgarh, Odisha, Gangetic West Bengal and Jharkhand. The remaining parts of central India, western India and northern India are likely to witness subdued rainfall activity. For the country as a whole it is expected to be close to normal with tendency of slight negative departure.
- During week 2 (15 – 21 September), there is indication of formation of a circulation over north Bay of Bengal crossing Odisha coast around 15-16 September, 2017. The monsoon condition is likely to improve during the week compared to previous week with southern peninsula and north-east India is expected to get above normal rainfall and the Northwest India and Central India is expected to get normal rainfall and above normal in some isolated region.

Strategic Agricultural Planning based on rainfall during next two weeks till
21st September 2017
Agromet Advisories

Deficit rainfall areas

Kerala

The state as a whole has received 1482 mm rainfall so far during the season, which is 20% deficit compared to the normal rainfall during the season. According to the extended range weather forecast, above normal and normal rainfall is predicted over Kerala during September 8-14 and September 15-21, respectively. The following advisories may be followed after the occurrence of forecasted rainfall spell.

- Paddy is in milk stage. There are chances of infestation by rice bug. Apply neem based pesticides (3ml per liter of water). Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect the pollination
- Banana: Ensure proper drainage, as above normal rainfall is forecasted in coming week. To avoid erwinia rot, apply lime in the banana basin or bleaching powder in the irrigation channels as a precaution
- Coconut: Apply fertilizers @ 250g Urea, 285g Rock phosphate, 350g Potash, 500 g MgSO₄ and 2 kg lime per plant. As a prophylactic measure to control bud rot apply 1% Bordeaux mixture in the tender leaf axils

Maharashtra

Rainfall received in major meteorological sub-divisions of the state are as follows:

Vidarbha – 606 mm (28% deficit); Marathwada – 498 mm (12% deficit); Madhya Maharashtra - 668 mm (9% surplus) and Konkan - 2692 mm (equal to normal)

The extended range weather forecast provided for next two weeks (8-14 September and September 15-21) for different subdivisions of Maharashtra are: Vidarbha (normal for both weeks); Marathwada (above normal and normal); Madhya Maharashtra (above normal for both the weeks) and Konkan (below normal and normal).

Vidarbha

- Undertake harvesting of matured green gram crop with protected drying and storage of the harvested produce from rains
- Undertake intercultural operations (weeding/hoeing) in cotton/pigeonpea to control weeds and improve surface tilth for better rain water conservation. At last hoeing, open furrow between two rows by tying the ropes to hoe for better *in-situ* conservation of rainwater, particularly in late sown condition

Following pest control measures are recommended after the forecasted normal rainfall spell.

- Continued cloudy weather followed by subdued rainfall activity has increased sap sucking pest infestation in cotton, for control of aphids/jassids undertake application of Azadirachtin 0.03% @ 30 ml OR Acetameprid 20% SP@ 4.0 g OR Thiamethoxam 25 wg @ 4.0 g per 10 litres of water. For controlling white fly infestation undertake application of Triazophos 40% EC @30 ml OR Diafenthiuron 50 % WP 12.0 g OR Deltamethrin 1% + Triazophos 35% EC @ 16.6 ml per 10 litres of water
- In soybean, to manage the initial incidence of leaf eating caterpillar undertake spraying of Azadirachtin 300 ppm @50 ml OR if needed undertake application of Dichlorvos 76%EC @ 5.5 to 7.5 ml per 10 litres of water.
- In soybean, to manage incidence of green semilooper and girdle beetle undertake application of Profenofos 50% EC @ 20 ml OR Chlorantraniliprole 18.5% SC @ 3ml per 10 litres of water.

Madhya Pradesh

East Madhya Pradesh has received 666 mm rainfall (28% deficit) and West Madhya Pradesh has received 595 mm rainfall (23% deficit) so far during the season.

The extended range weather forecast provided for next two weeks (8-14 September and September 15-21) for different subdivisions of Madhya Pradesh are: East Madhya Pradesh (normal for both weeks); West Madhya Pradesh (normal and below normal). The following advisories may be followed after the forecasted spell of normal rainfall.

- Soybean: The crop is in pod development stage and incidence of semi looper, girdle beetle, white fly and hairy caterpillar is reported in many places due to prolonged dry spell. Farmers are advised to increase frequency of insecticides, like Thiomethoxam, Imidacloprid, Triazophos. Also rogue out the mosaic plants from the field.

- Paddy: The crop is in anthesis stage. Farmers are advised to keep soil moist at this stage in irrigated areas. To control blast, apply Carbendazim at 2g/liter water in the field.

Uttar Pradesh

West UP has received 666 mm (34% deficit) and East UP has received 589 mm (22% deficit) rainfall so far during the season.

The extended range weather forecast provided for next two weeks (8-14 September and September 15-21) for different subdivisions of Uttar Pradesh are: West UP (below normal for both the weeks); East UP (below normal, normal)

- As subdued rainfall has caused moisture stress, provide irrigation wherever possible to paddy and maize.
- Wherever root weevil infestation is noticed in paddy, apply Forate-10 G @ 10 kg/ha.

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