



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

Validity: (27th March to 09th April 2020)

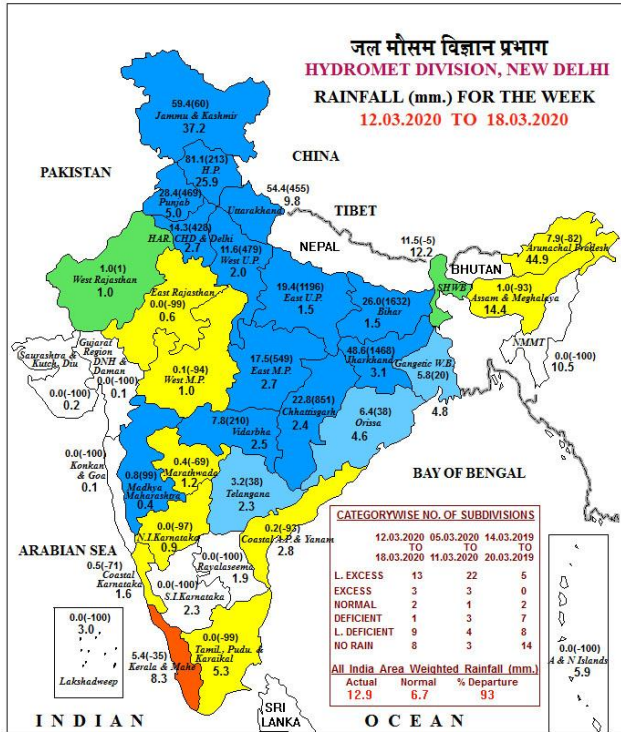
Date of issue: 27th March 2020

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All India Coordinated Research Project on Agro meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.
&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

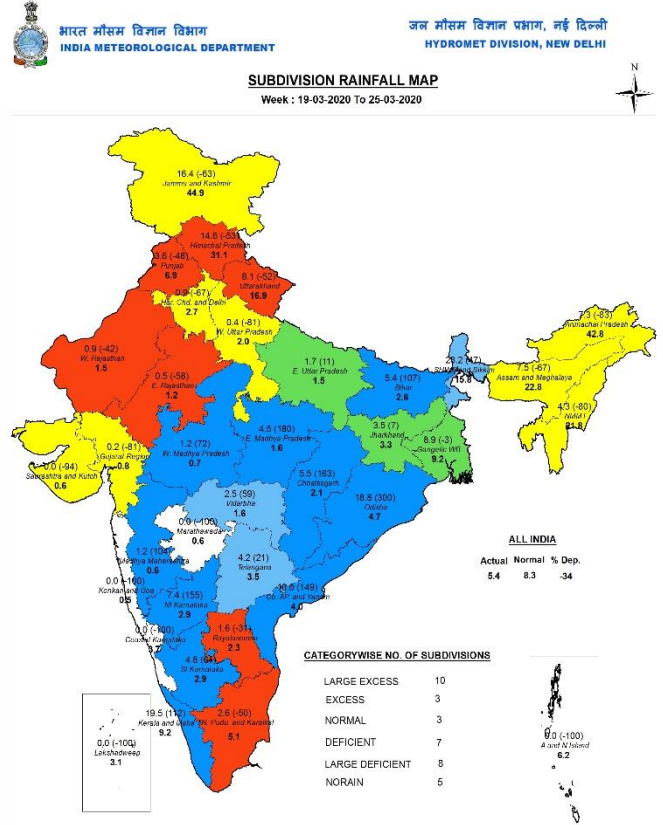
Realized Rainfall (12th to 25th March, 2020)

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.)
 [c] Percentage Departures of Rainfall are shown in Brackets.



LEGEND: Large Excess [60% or more] | Excess [20% to 59%] | Normal [19% to 19%] | Deficient [59% to -20%] | Large Deficient [60% to -99%] | No Rain [-100%] | No Data

NOTES:
 a) Rainfall figures are based on operation data.
 b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 c) Percentage Departures of rainfall are shown in brackets.

- Normal or above normal rainfall occurred in both the weeks in East Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, East Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Vidarbha and Telangana.
- Normal or above normal rainfall occurred in either of the weeks in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, West Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, North Interior Karnataka and South Interior Karnataka.
- Below normal rainfall/no rain occurred over rest of the country.

Extended Range Forecast System

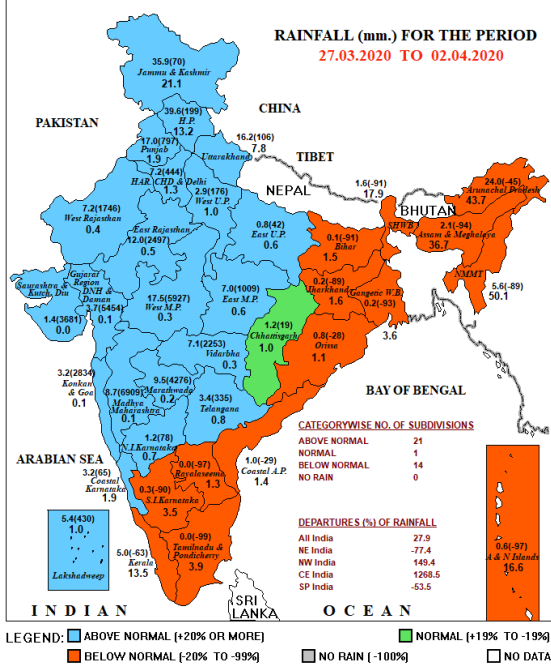
Rainfall forecast maps for the next 2 weeks (IC – 25 March)

(27th March to 9th April, 2020)

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Rainfall Forecast Map - Normal RF Based Categories

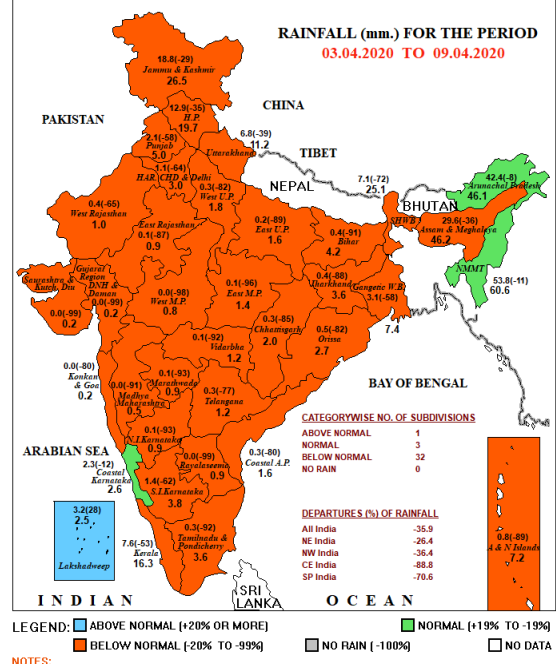


NOTES:
 (a) Rainfall figures are based on MME Forecast data.
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

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Rainfall Forecast Map - Normal RF Based Categories



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 (a) Rainfall figures are based on MME Forecast data.
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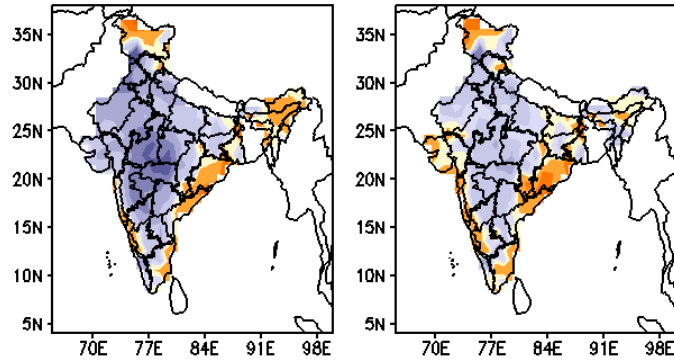
- Week 1 (27.03.2020 to 02.04.2020):** Western Disturbance associated rainfall likely over extreme north India, northwest India and adjoining central parts of India during week 1. Some parts of northeast India are also likely to get rainfall during the period. Rainfall over isolated region of Kerala is likely during week 1.
- Week 2 (03.04.2020 to 09.04.2020):** Rainfall over northeast India is likely to increase during this period. Isolated Western Disturbance associated rainfall over extreme north India will continue during the period.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 25 March)
(27th March to 9th April, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 27Mar–02Apr)

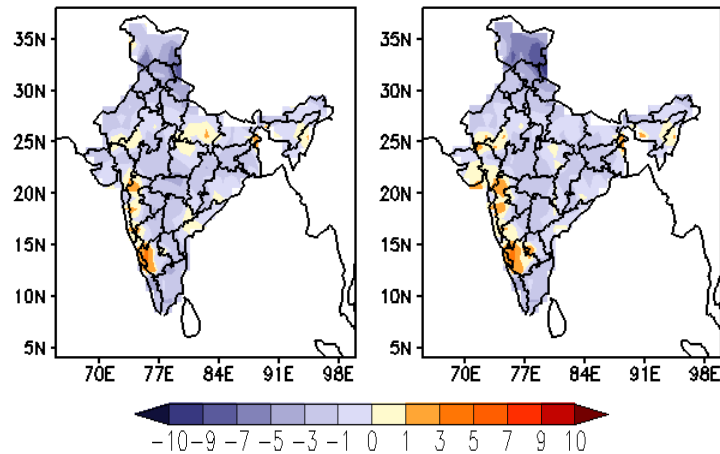
(Week2: 03Apr–09Apr)



MME forecast Tmin anomaly (Deg C)

(Week1: 27Mar–02Apr)

(Week2: 03Apr–09Apr)



Maximum Temperature (Tmax)

- **Week 1 (27.03.2020 to 02.04.2020) and Week 2 (03.04.2020 to 09.04.2020):** Tmax anomaly is mostly negative over India except parts of extreme north India, northeast India and south-eastern coastal region.

Minimum Temperature (Tmin)

- **Week 1 (27.03.2020 to 02.04.2020) and Week 2 (03.04.2020 to 09.04.2020):** Except some isolated regions over western parts of India and Indo-Gangetic region, Tmin anomalies will be negative. Tmin anomalies will remain as normal to very weak over major parts of India.

Strategic Agricultural Planning based on rainfall during next two weeks till 09th April 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 676.4 mm (25% excess) during the period of 01 Oct. 2019 – 09 April 2020. The extended range weather forecast for next two weeks (27 March - 02 April and 03 - 09 April 2020) is below normal for week-1 and week-2.

- Because of increase in temperature, there is chance of sucking pest in vegetable crops. To control, application of 2% neem oil emulsion once in a week or spray of *Lecanicillium lecani* at 20 g per litre of water is advised.
- Present weather condition is ideal to prepare planting material for black pepper. Apply mulch and protect the plants from the scorching sun.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 467.1 mm (-5% deficit) during the period of 01 Oct. 2019 – 09 April 2020. The extended range weather forecast for next two weeks (27 March - 02 April and 03 - 09 April 2020) is below normal for week-1 and week-2.

- Prevailing weather condition is favorable for canker disease incidence in citrus. To control, spray of Streptomycin sulphate 500-1000 ppm or Phytomycin 2500 ppm or Copper oxychloride 0.2% at fortnight interval is advised.
- Prevailing weather condition is favorable for die back in chilli. To control, three sprayings with Wettable Sulphur or Copper Oxy Chloride 0.25% or Zineb 0.15% is advised.
- Prevailing weather condition is favorable for black headed caterpillar incidence in coconut. To control, it is advised to spray the under surface of the fronds with Dichlorovos 100EC 0.02%, Malathion 50 EC 0.05% @ 1ml/litre.

Maharashtra

Rainfall received over Madhya Maharashtra is 235.1 mm (118% large excess), over Marathwada is 267.0 mm (139% large excess), Vidharbha is 113.1 mm (4% excess) and Konkan region 281.5 mm (99% large excess) during 01 Oct. 2019 – 09 April 2020. The extended range weather forecast for next two weeks (27 March - 02 April and 03 - 09 April 2020) over Marathwada, Vidharbha, Konkan and Madhya Maharashtra are above normal for week-1 and below normal over Marathwada, Konkan, Vidharbha and Madhya Maharashtra for week-2.

Madhya Maharashtra

- It is advised to complete the sowing of fodder crops for livestock in March.
- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.

Marathwada

- Due to unseasonal rain, gusty wind and hail storm, it is advised to harvest mature citrus crops as early as possible.
- It is advised to harvest safflower crop and collect and cover it by plastic paper and store at safe place.

Konkan

- Due to light rainfall, there is a chance of incidence of anthracnose disease in cashewnut. It is advised to spray 0.2% Mancozeb @ 20 g per 10 litre of water.
- There are chances of incidences of shoot and fruit borer in okra. If incidence is noticed then collect and destroy all infected shoots and fruits and spray Cypermethrin 25%EC @ 3ml or Lambda cyhalothrin 5%EC @ 6 ml per 10 litre of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 384.2 mm (2% excess) during 01 Oct. 2019 – 09 April 2020. The extended range weather forecast provided for next two weeks (27 March - 02 April and 03 - 09 April 2020) on rainfall over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- Due to prevailing weather condition, there are chances of aphid in mustard crop. Farmers are advised to spray Rogor or Quinalphos @ 2.0 ml/litre of water.
- Farmers are advised to monitor the yellow powder/stripes on the leaves of susceptible varieties and spray the recommended fungicides during calm and clear weather as soon as the symptoms appear.

Hisar

Amount of rainfall received over Hisar is 117.6 mm (92% large excess) during 01 Oct. 2019 – 09 April 2020. The extended range weather forecast provided for next two weeks (27 March - 02 April and 03 - 09 April 2020) on rainfall over Hisar is above normal for week-1 and below normal week-2.

- Farmers were advised to complete the sowing of green gram and black gram with certified seed during this month.
- Due to variable weather condition, there is a chance of pod borer infestation in the chickpea. Farmers are advised to spray Carbaril 50 W.P. or 200 ml Monocrotophas 36 S.L /100 litre water/acre.
- Farmers are advised to monitor yellow rust in wheat. If observed, application of 200 ml Tilt 25% EC (Propiconazole 25% EC) in 200 litre water per acre is advised.

Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.