



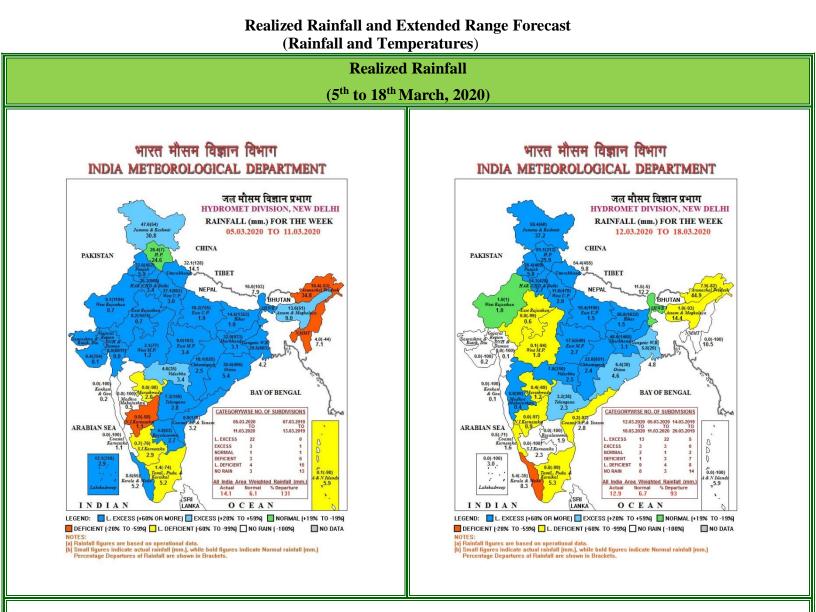
National Agromet Advisory Service Bulletin Based on Extended Range Weather Forecast (ERFS)

Validity: (20th March to 2nd April 2020)

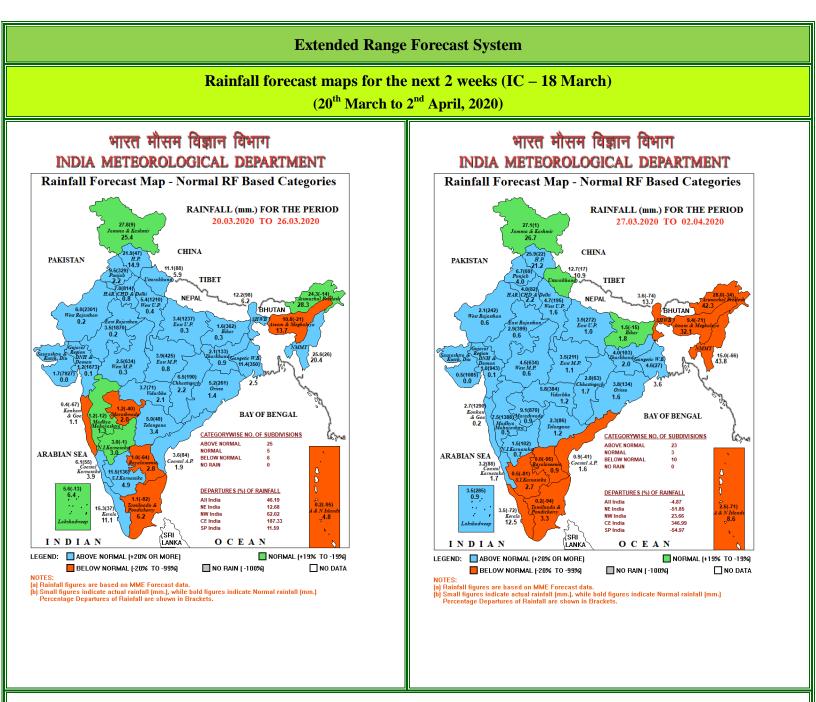
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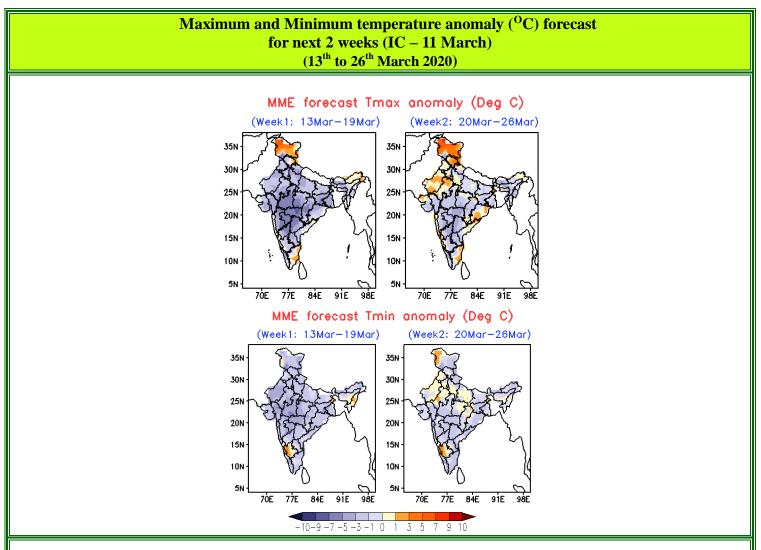
Earth System Science Organization India Meteorological Department



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



• Week 1 (20.03.2020 to 26.03.2020) and Week 2 (27.03.2020 to 02.04.2020): Rainfall associated with Western Disturbance is likely over extreme north India and rainfall over isolated region of Kerala is likely during week 1. Some parts of northeast India are also likely to get rainfall during both the weeks.



- Maximum Temperature (Tmax)
- Week 1 (13.03.2020 to 19.03.2020): Tmax (Maximum temperature) is likely to be above normal over small parts of extreme north India. However, over the remaining parts of India, including most parts of central India and south peninsula, Tmax will be below normal.
- Week 2 (20.03.2020 to 26.03.2020): Tmax will be above normal over eastern & north-western belt of India. However, very weak anomalies of Tmax are likely over central and north-west India during the period.
- Minimum Temperature (Tmin)
- Week 1 (13.03.2020 to 19.03.2020): Tmin anomaly is mostly negative over south-eastern coast, central India and south peninsula during week 1.
- Week 2 (20.03.2020 to 26.03.2020): Tmin anomaly is mostly negative over India during week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 2nd April 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 654.2 mm (23% excess) during the period of 01 Oct. 2019 - 19 March 2020. The extended range weather forecast for next two weeks (20 - 26 March and 27 March - 02 April 2020) is above normal for week-1 and below normal for week-2.

- There is a chance of white fly attack in chilli. It is advised to apply 2% Neem oil garlic emulsion or spray 20g Lecanicillium lecanii/litre of water in ten days intervals.
- Due to dry weather condition, there is a chance of whitefly attack in coconut leaves. To control, application of 2% Neem oil emulsion on the leaves is advised.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 464.5 mm (-5% deficit) during the period of 01 Oct. 2019 - 19 March 2020. The extended range weather forecast for next two weeks (20 - 26 March and 27 March - 02 April 2020) is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for sucking pest in chilli. To control, spray of Imidacloprid 17.8% SL 3.0 ml/10 litre or Dimethoate 30% EC 1.0 ml/litre is advised.
- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using Casuarinas poles.

Maharashtra

Rainfall received over Madhya Maharashtra is 230.5 mm (115% large excess), over Marathwada is 264.9 mm (138% large excess), Vidharbha is 106.7 mm (normal rainfall) and Konkan region 281.5 mm (100% large excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast for next two weeks (20 - 26 March and 27 March - 02 April 2020) over Marathwada and Konkan is below normal, over Madhya Maharashtra is normal and Vidharbha is above normal for week-1 and above normal over Marathwada, Konkan, Vidharbha and Madhya Maharashtra for week-2.

Madhya Maharashtra

- Irrigation for Suru Sugarcane is advised at 75 mm CPE. In summer, interval of surface irrigation is about 8 to 10 days. and in ration sugarcane irrigation at 50 mm CPE.
- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.

Konkan

- There is possibility of incidence of tea mosquito bugs on the inflorescence of cashewnut. To protect, spray Profenophos 50% EC @10 ml/10 litre of water.
- Due to increase in temperature, it is advised to irrigate the coconut orchard at 5-6 days interval and

use of straw mulch to reduce evaporation losses.

Vidharbha

- To control tobacco leaf eating caterpillar and leaf webber in groundnut, spraying of Diflubenzuron 25% WP @ 400 gm in 500 litre of water/ha is advised.
- For control of powdery mildew in mango, spray of Carbendazim 46.27% SC @ 10g or Azoxystrobin 23% SC @ 10g/10 litre of water is advised.

Marathwada

- Under water stress condition in sugarcane crop, it is advised to remove lower mature dry leaves and use it as mulch.
- For management of citrus butterfly larva in citrus, spray of Quinolphos 25 % @ 20 ml per 10 litre of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 370.6 mm (7% excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Himachal Pradesh is above normal for week-1 and 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 116.6 mm (98% excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Hisar is above normal for week-1 and week-2.

- 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 spray is advised.
- Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.

Karnataka

Rainfall received during 01 Oct. 2019 - 19 March 2020 over South Interior Karnataka is 311.4 mm

(44% excess) and North Interior Karnataka is 252.8 mm (74% large excess). The extended range weather forecast for next two weeks (20 - 26 March and 27 March - 02 April 2020) over South Interior Karnataka is above normal and over North Interior Karnataka is normal for week-1 and over South Interior Karnataka is below normal and over North Interior Karnataka is above normal for week-2.

South Interior Karnataka

- To protect the pulse grains from storage pests, application of oils of castor/linseed/honge/neem oil @ 3-5 ml per kg of grains is advised.
- Proper ventilation in the sheds of animals is advised to maintain free circulation of air.
- There are chances of leaf hopper and powdery mildew disease incidence in mango before flowering and immediately after fruit formation. To control, spray Carbaryl, 50 WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water.

Assam

Amount of rainfall received over Assam is 258.6 mm (-5% deficit) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Assam is below normal for week-1 and week-2.

- Due to favourable weather condition, there is a chance of infestation of cutworm in okara. To control, apply Malathion 50 EC @ 5 ml/3 litre of water at seven days interval on clear weather.
- Vaccination of 4-7 days old and 35 days old birds with F1/Lasota vaccine @ 1 drop through eye and nostril is advised.

Jharkhand

Amount of rainfall received over Jharkhand is 270.4 mm (112% large excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Jharkhand is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of blight disease in potato. It is advised, to spray fungicide Redomyl M. Z. @ 1.5 g/litre.
- There are chances of stem and fruit borer in brinjal crop. To control, use pheromone trap without use of chemical insecticides. 10 pheromone trap may be installed in one acre for effective control of the insects.

Uttar Pradesh

Rainfall received during 01 Oct. 2019 - 19 March 2020 over East Uttar Pradesh is 121.5 mm (57% excess) and West Uttar Pradesh is 141.6 mm (111% large excess). The extended range weather forecast for next two weeks (20 - 26 March and 27 March - 02 April 2020) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

• Farmers are advised for top dressing of N fertilizer in late sown wheat under optimum moisture condition.

- Under optimum moisture condition, digging of potato is advised.
- Intercultural operation is advised to check the evapo-transpiration losses and proper utilization of nutrient by the crop.

Odisha

Amount of rainfall received over Odisha is 291.6 mm (68% large excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Odisha is above normal for week-1 and week-2.

- To prevent wilting in vegetable crops, it is advised to apply 2 g Captan in 1 litre of water.
- Present moderate temperature favours infestation of thrips in groundnut crop. Spray 400 ml Dimethoate or 50 ml Imidacloprid in 200 litre water per acre.

West Bengal

Amount of rainfall received over West Bengal is 326.2 mm (61% large excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

- For the control of stem borer in boro rice, application of Cartap 4G @ 25 kg/ha or Phorate 10G @ 10 kg/ha or Fipronil 0.3G @ 25 kg/ha or Chlorpyriphos 10G @ 10kg/ha at 21 DAS during top dressing is advised.
- For the control of attack of mango hopper, apply of 2 g Carbaril or 1.5 g Monocrotophos/litre of water.

Bihar

Amount of rainfall received over Bihar is 118.9 mm (23% excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Bihar is above normal for week-1 and normal for week-2.

- It is advised to spray Imidachlor@1.0 ml/ litre of water in the mango orchards against the infestation of insect-pest. To prevent fruit drop, application of Planofix @ 1.0 ml/3litre of water is advised.
- Under prevailing weather condition, it is advised to start the land preparation and sowing of green gram & black gram. Recommended varieties for green gram viz., Pusa Vishal, Samrat, SML-668, HUM-16 and Sona varieties for green gram and Pant Urd-19 and Pant Urd-31, Uttra and Navin varieties of black gram for sowing in North Bihar.

Punjab

Amount of rainfall received over Punjab is 177.2 mm (100% large excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Punjab is above normal for week-1 and week-2.

• To control aphid in wheat, spray of 20 g of Actara/Taiyo @ 25WG/ 80-100 litre of water per acre is advised. Before applying insecticide, it is also advised to check the population of aphid as due to

rains in previous days their population might have decreased below ETL.

• To control aphid in mustard, it is advised to spray Actara 25 WG @ 40g or Metasystox 25 EC or Rogor 30 EC @400 ml or Dursban/Coroban 20 EC @ 600 ml using 80-125 litre of water.

Gujarat

Amount of rainfall received over Gujarat is 84.6 mm (169% large excess) during 01 Oct. 2019 - 19 March 2020. The extended range weather forecast provided for next two weeks (20 - 26 March and 27 March - 02 April 2020) on rainfall over Gujarat is above normal for week-1 and week-2.

- For the management of mango hopper, spray of Deltamethrin 2.8EC@ 3ml or Cypermethrin 25EC@ 2ml/10 litre water is advised. In case of severe incidence, spray Imidacloprid 17.8 SL @ 3 ml or Fenobucarb 50 EC @ 20 ml or Buprofezin 25 EC @ 10 ml per 10 litre water.
- Farmers are advised to keep animal shed hygienic and clean to avoid flies and mosquitoes. Regular check-up for infectious disease like FMD, tuberculosis and Brucellosis is advised. Strictly follow the vaccination schedule.

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