



# **National Agromet Advisory Service Bulletin**

based on

**Extended Range Weather Forecast (ERFS)** 

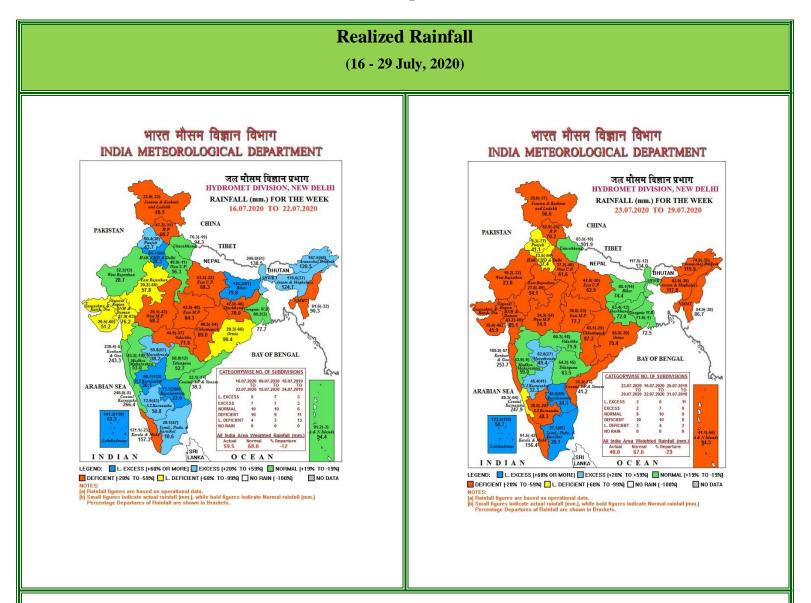
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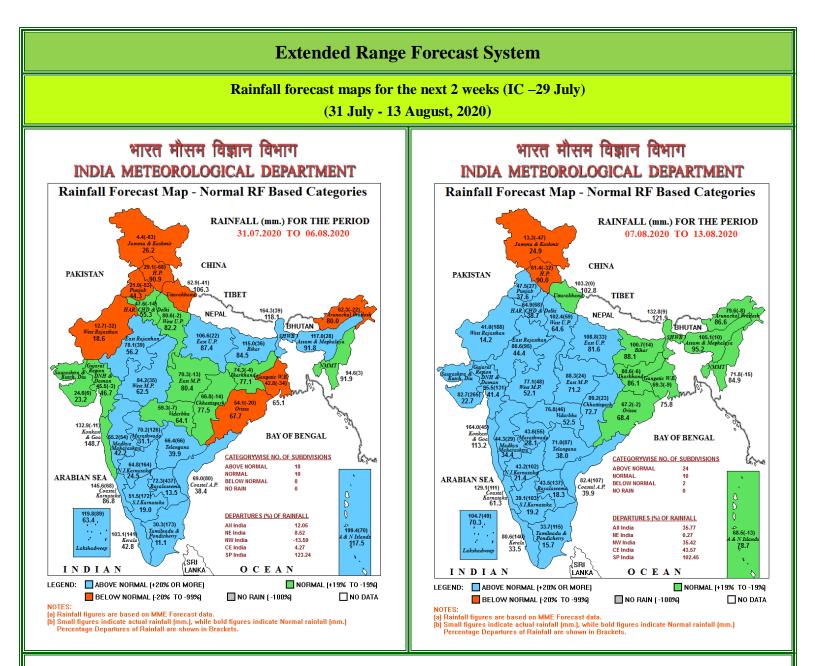
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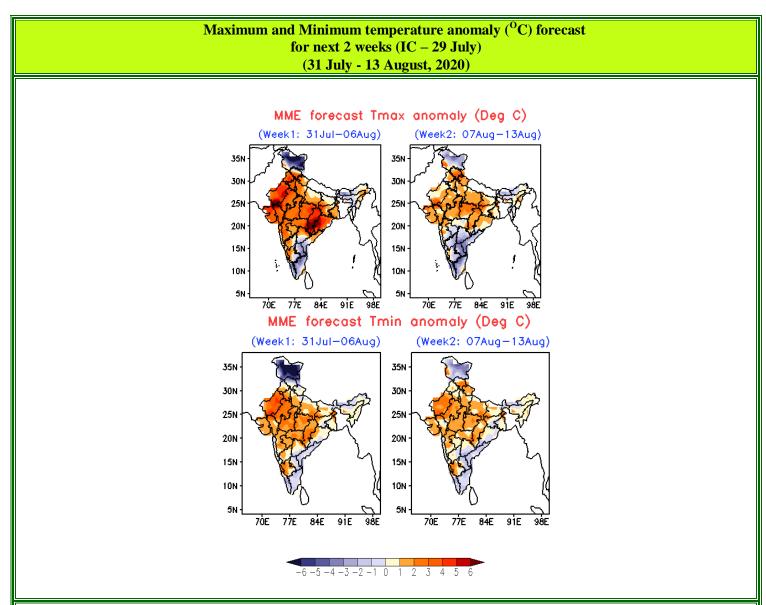
# **Realized Rainfall and Extended Range Forecast** (Rainfall and Temperatures)



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



- Week 1 (31.07.2020 to 06.08.2020): The regions of Odisha, Chhattisgarh, West Bengal, west Rajasthan, Jammu & Kashmir regions and Arunachal Pradesh regions are expected to get below normal rainfall, whereas, the south peninsula, adjoining central India and some parts of north India, Uttar Pradesh, Bihar will get normal to slightly above normal rainfall during the week.
- Week 2 (07.08.2020 to 13.08.2020): Rainfall over west-coast of India, parts of northern India and central India will increase. However, Odisha and adjoining region of West Bengal, Chhattisgarh and northeast India is likely to get normal to slightly below normal rainfall.



#### Maximum Temperature (Tmax)

- Week-1 (31.07.2020 to 06.08.2020): Odisha, Chhattisgarh, adjoining central India, Gujarat, Maharashtra extending upto north-west Rajasthan and Indo-Gangetic regions will have above normal Tmax during week-1 with Odisha and adjoining Chhattisgarh will have higher positive anomaly.
- Week-2 (07.08.2020 to 13.08.2020): During Week-2 the region of northern India and region of Indo Gangetic plain will remain above normal Tmax during the period.

#### **Minimum Temperature (Tmin)**

• Week-1 (31.07.2020 to 06.08.2020) and Week-2 (07.08.2020 to 13.08.2020): Except some parts of south-eastern coastal states of India, Tmin will be mostly above normal over Kerala and extreme north India during week-1 and week-2.

# **Agro-met Advisories**

# Kerala

Amount of rainfall received over Kerala is 1033.0 mm (-23% deficit) during the period of 01 June 2020 -30 July 2020. The extended range weather forecast for next two weeks (31 July - 06 August and 07 - 13 August 2020) is above normal for week-1 and week-2.

- Due to rainy weather condition, there is a chance of anthracnose disease in cowpea. As a precaution, apply 1% Bordeaux mixture or spray pseudomonas 20 g/litre of water.
- Under the prevailing weather condition, there is a chance of panama wilt in banana varieties viz., poovan, kadali. It is advised to drench the soil with 1 g of Carbendazim in one litre of water.

# Tamil Nadu

Amount of rainfall received over Tamil Nadu is 192.6 mm (51% excess) during the period 01 June 2020 - 30 July 2020. The extended range weather forecast for next two weeks (31 July - 06 August and 07 - 13 August 2020) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable for sucking pest incidence in chilly. It is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Present weather condition is favorable for thrip incidence in onion. To control, spray Dimethoate @ 0.06% or Profenofos @ 0.05%.

# Maharashtra

Rainfall received over Madhya Maharashtra is 439.3 mm (13% excess), over Marathwada is 447.0 mm (44% excess), Vidharbha is 422.0 mm (-10% deficit) and Konkan region 1779.1 mm (3% excess) during 01 June 2020 - 30 July 2020. The extended range weather forecast for next two weeks (31 July - 06 August and 07 - 13 August 2020) over Vidharbha and Konkan is normal and over Madhya Maharashtra and Marathwada is above normal for week-1 and over Konkan, Madhya Maharashtra, Vidharbha and Marathwada is above normal for week-2

# Madhya Maharashtra

• For control of army worm attack in crops, it is advised to use pheromone trap @ 5/ha or apply 50,000 eggs of *Trichogram pritiosum* or *Telenomus remus* parasite per acre three times in one week interval.

# Konkan

- Due to cloudy weather condition, there is a possibility of incidence of powdery mildew disease in cucurbitaceous crops. If incidence is noticed, spray Carbendazim @ 5 g or Zineb @ 20 g per 10 litre of water.
- There is a possibility of incidence of blue beetle in low land rice. If incidence is noticed, spray of Quinalphos 25% EC @ 20 ml or Triazophos 40% EC @ 12.5 ml or Lambda cyhalothrin 5% EC @ 5 ml per 10 litre of water is advised.

#### Marathwada

- Under rainy weather condition, it is advised to drain out excess amount of water from crop fields to avoid water stagnation.
- For management of sucking pest in cotton crop, farmers are advised to spray 5% NSKE or Thiamethoxam 25% @ 40 g and Clothianidin 50% @ 30 g per acre during clear weather condition.

#### Hisar

Amount of rainfall received over Hisar is 202.5 mm (2% excess) during 01 June 2020 - 30 July 2020. The extended range rainfall forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) over Hisar is normal for week-1 and above normal for week-2.

- Under prevailing weather conditions, farmers are advised to withhold irrigation in vegetable and fruits crops.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crops.
- Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep animals healthy.

#### Karnataka

Rainfall received during 01 June 2020 - 30 July 2020 over South Interior Karnataka is 350.4 mm (normal rainfall) and North Interior Karnataka is 338.6 mm (49% excess). The extended range weather forecast for next two weeks (31 July - 06 August and 07 - 13 August 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

# South Interior Karnataka

- Farmers are advised for pruning of dried twigs and branches in mango to facilitate the sunlight to bear more fruits in next season.
- Farmers may go for sowing of red gram as long duration mono crop with varieties TTB-7, BRG1, 2, 4 & 5, maize with varieties Ganga-11, Deccan -103, Vijaya composite, Composite NAC-6004, 6002, hybrid-Nityashree (NAH-2049), foxtail millet with varieties RS-118,K-221-1, PS-4, SIA-326.

# North Interior Karnataka

- Under prevailing rainy weather condition, sowing of *kharif* crops like greengram, redgram, bajra, navane and groundnut (bunch type), castor, onion, chilli is recommended.
- Farmers are also advised to sow the crops in rows across the slope to facilitate better soil moisture conservation.
- Farmers are advised to vaccinate livestock against foot and mouth disease (FMD vaccination), black quarter disease (BC vaccination) and *haemorrhagic septicaemia*.

#### Assam

Amount of rainfall received over Assam is 1303.3 mm (25% excess) during 01 June 2020 - 30 July

2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Assam is above normal for week-1 and normal for week-2.

- It is advised to maintain proper drainage facility in coconut, citrus, papaya, banana and other vegetable orchards to drain out excess amount of water.
- Due to heavy rainfall and strong wind condition, farmers are advised to go for stripping and propping in sugarcane crop to avoid mechanical damage and lodging.

# Uttar Pradesh

Rainfall received during 01 June 2020 - 30 July 2020 over East Uttar Pradesh is 458.2 mm (20% excess) and West Uttar Pradesh is 225.7 mm (-28% deficit). The extended range weather forecast for next two weeks (31 July - 06 August and 07 - 13 August 2020) over East Uttar Pradesh is above normal and West Uttar Pradesh is normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

- Under prevailing weather condition, there is a chance of downy mildew in cucurbits and other vegetables. To control, it is advised to spray Mancozeb @ 2g/ litre of water.
- Prevailing weather condition is favourable for sowing of pearl millet with recommended composite varieties viz., ICMB-155, WCC-75, ICTP-8203, Raj-171, NDFB-3 and hybrid varieties viz., Pusa-322, Pusa-23 and ICMH-451.
- For the fish seed production, it is advised to disinfect hatchery by using Potassium permanganate @ 5 mg/litre of water.

# Odisha

Amount of rainfall received over Odisha is 474.6 mm (-14% deficit) during 01 June 2020 - 30 July 2020. The extended range rainfall forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) over Odisha is below normal for week-1 and normal for week-2.

- It is the optimum time for mango planting. Recommended varieties are Baiganpalli, Totapuri, Bombay green, Suvarnarekha, Neelam, Himsagar, Langra, Dusheri, Amrapalli, Mallika, Ratna, Ramkella, Rummani, Sindhu, Alphanso and Keshar.
- There is a chance of top shoot borer infestation in sugarcane crop. To manage, spray Fipronil 5% SC (Reagent/Sergent) @ 600 ml/acre or Profenophos 50% EC (Profigan/Prahar) @ 400 ml/acre by mixing it in 200 litre of water.

# West Bengal

Amount of rainfall received over West Bengal is 556.5 mm (-4% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over West Bengal is below normal for week-1 and normal for week-2.

- Due to expected heavy rainfall, it is advised to complete the sowing and transplanting of Aman rice with recommended improved varieties IET-4786, Khitish, Swarna and IR-36.
- Under the prevailing weather condition, there is a chance of Bihar hairy caterpillar and semi looper in jute crop. It is advised to apply 1.5 ml Chlorpyriphos per litre of water.

• For the management of brinjal fruit borer and stem borer, farmers are advised to apply Triazophos 40 EC @ 1.5 ml or Spinosad 45 EC @ 0.2 ml or Cartap Hydrochloride @ 0.75 g/litre of water.

# Gujarat

Amount of rainfall received over Gujarat is 270.7 mm (-42% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Gujarat is normal for week-1 and above normal for week-2.

- Under assured irrigation and sufficient rainfall condition, it is advised to complete the transplanting of rice in the main field.
- For control of shoot and fruit borer of brinjal, it is advised to spray Chlorontraniliprole 18.5 SC 3 ml or DDVP 7 ml per 10 litre water.

#### Jammu

Amount of rainfall received over Jammu is 137.6 mm (-48% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Farmers are advised to monitor the incidence of thread worm in transplanted rice. If observed, application of Carbofuran 3G @ 20kg/ha during clear weather is advised.
- Farmers are also advised to monitor the incidence of cutworm in maize. If observed, apply Carbofuran 3G @ 1kg/kanal during clear weather.

#### Rajasthan

Amount of rainfall received over East Rajasthan is 183.8 mm (-34% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over East Rajasthan is above normal for week-1 and week-2.

- Due to dry spell and deficit rainfall condition, farmers are advised for mulching in *kharif* crops to minimize evaporation from crop fields.
- For the control of fall army worm in maize, spray Thiamethoxam 12.6 ml or Spinetoram 11.7 SC 250ml/ ha.

# Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 264.8 mm (-27% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather condition, nursery raising of medicinal plants viz. aswagandha, tulsi, digitalis, jangli bhindi and agarkara is advised.
- It is advised to maintain room temperature of 18-22°C and relative humidity around 85% for successful cultivation of mushrooms.
- The chance of ecto-parasite attack in dairy animal is very high. To control, spray Butox @

2ml/litre of water in cowshed.

#### Uttarakhand

Amount of rainfall received over Uttarakhand is 493.2 mm (-13% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Uttarakhand is below normal for week-1 and normal for week-2.

- For the control of insect infestation in the crop fields, it is advised to use pheromone/light traps or yellow strips.
- Under rainy weather condition, farmers must arrange to drain out excess rain water from vegetable fields.

#### Jharkhand

Amount of rainfall received over Jharkhand is 447.5 mm (-13% deficit) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Jharkhand is normal for week-1 and week-2.

- Farmers are advised for cultivation of green fodder crops like maize (African tall or J-100), lobia (PC 4200) or moth (Vidhaan-1).
- Intercultural operation is advised in the crop fields to conserve soil moisture and control of weed.

#### Punjab

Amount of rainfall received over Punjab is 229.7 mm (5% excess) during 01 June 2020 - 30 July 2020. The extended range weather forecast provided for next two weeks (31 July - 06 August and 07 - 13 August 2020) on rainfall over Punjab is below normal for week-1 and above normal for week-2.

- To manage fall armyworm on maize crop, it is advised to spray Coragen 18.5 SC @ 0.4ml/litre water or Delegate 11.7 SC (Spinetoram) @ 0.5ml/litre or Missile 5SG (Emamectin benzoate).
- Prevailing weather condition is favorable for fruit rot and die back disease in chilli crop. Farmers are advised to spray 250 ml Folicur/ 750 g Indofil M-45 /Blitox in 250 litre of water per acre at 10 days interval.

#### Disclaimer:

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