



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 15-28 July 2022

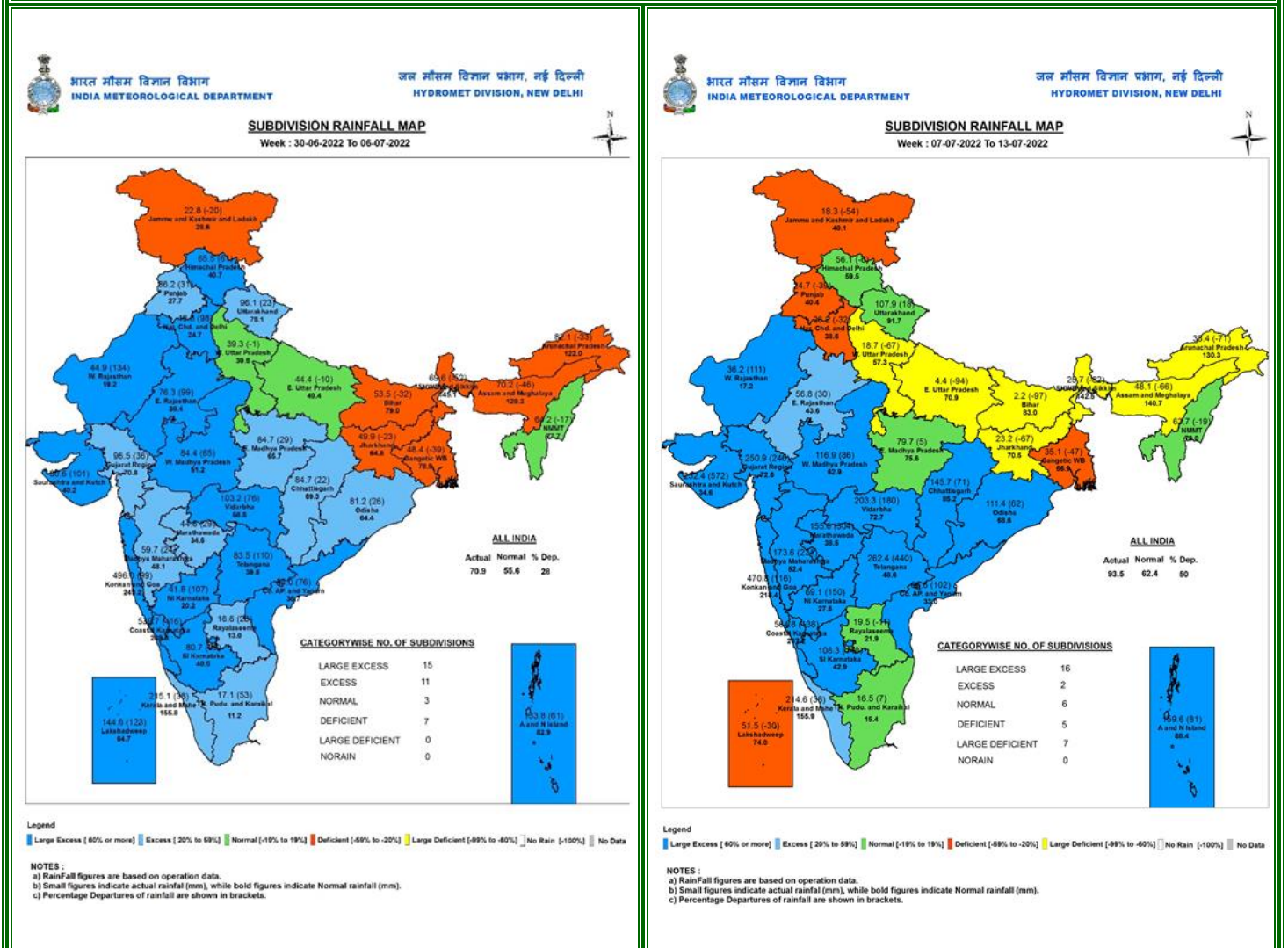
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**AICRP on Agro-Meteorology (AICRPAM)
Central Research Institute for Dryland Agriculture (CRIDA)
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Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

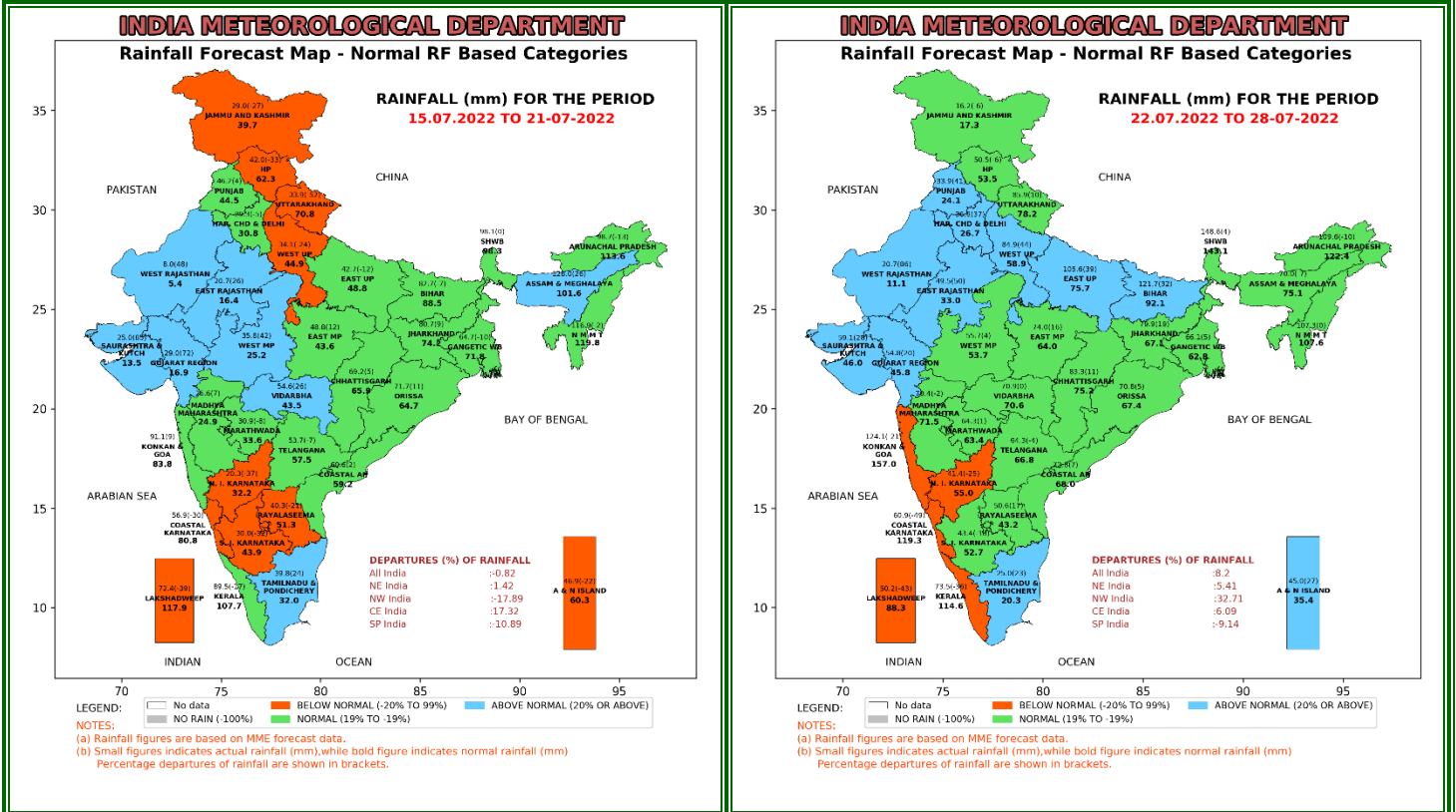
Realized Rainfall (30th June to 13th July, 2022)



- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Himachal Pradesh, Rajasthan, Madhya Pradesh, Gujarat, Maharashtra, Chhattisgarh, Odisha, Nagaland Manipur Mizoram & Tripura (NMMT), Andhra Pradesh, Telangana, Karnataka, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh and Lakshadweep.
- Below Normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 13th July) (15th to 28th July 2022)



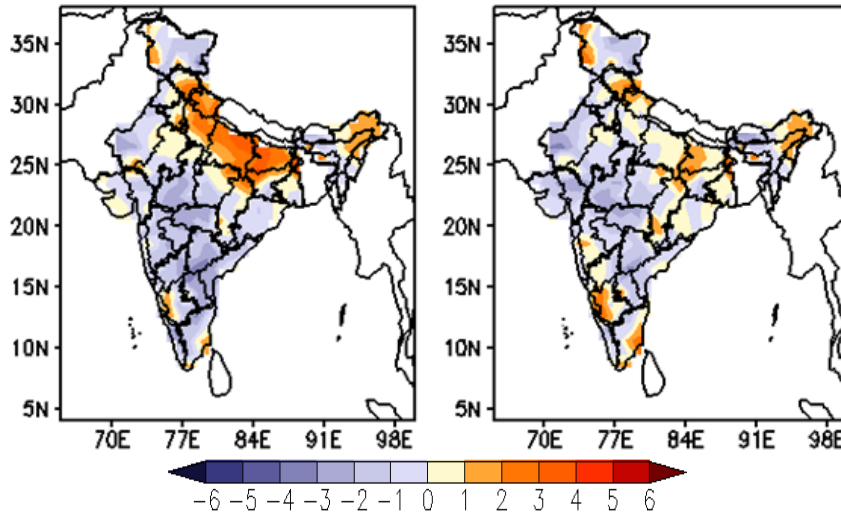
- **Week 1 (15.07.2022 to 21.07.2022):** Rainfall over central India is likely to be normal and it will be slightly above normal over the western parts. Rainfall over Uttar Pradesh, Bihar and parts of northeast India will be slightly below normal.
- **Week 2 (22.07.2022 to 28.07.2022):** Rainfall over northern India including Uttar Pradesh and Bihar will be normal to slightly above normal and it will be normal over central India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 13th July)
(15th to 28th July 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 15Jul–21Jul)

(Week2: 22Jul–28Jul)



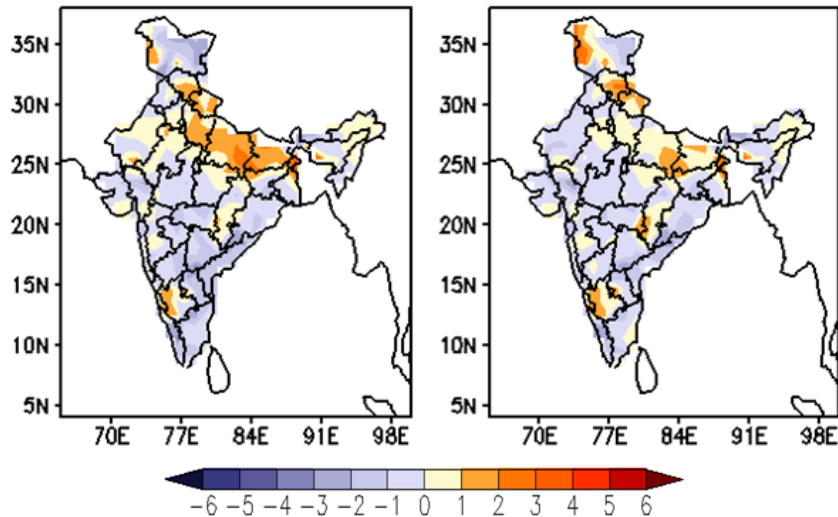
Maximum Temperature (Tmax)

- **Week 1 (15.07.2022 to 21.07.2022) and Week 2 (22.07.2022 to 28.07.2022):** Tmax will be above normal over Uttar Pradesh, Bihar and some parts of Jharkhand and normal to slightly below normal over rest of the regions.

MME forecast Tmin anomaly (Deg C)

(Week1: 15Jul–21Jul)

(Week2: 22Jul–28Jul)



Minimum Temperature (Tmin)

- **Week 1 (15.07.2022 to 21.07.2022) and Week 2 (22.07.2022 to 28.07.2022):** Tmin will be above normal over Uttar Pradesh, Bihar and some parts of Jharkhand and normal to slightly below normal over rest of the regions.

Strategic Agricultural Planning based on rainfall during the next two weeks till 28 July 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 793 mm (-18% deficit) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) is normal for week-1 and below normal for week-2.

- Due to high relative humidity, there is a chance of downy mildew incidence in cucurbitaceous vegetables. To manage, it is advised to spray Mancozeb @ 2.5 g/litre of water under the leaves during clear weather condition.
- Because of high moisture content in the atmosphere, there is a chance for the development of mahali disease in arecanut and coconut. For managing this, spraying of Copper oxy chloride @ 3g per litre of water during clear weather condition is advised.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 120 mm (48% excess) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable for bud worm incidence in Jasmine. Farmers are advised to spray Thiocloprid (Alanto) 240 SC 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/litre.
- Under prevailing hot weather condition, farmers are advised to provide adequate clean water and light to the fowls to avoid heat stroke.

Maharashtra

381 mm (44% excess) rainfall over Madhya Maharashtra; 391 mm (84% large excess) in Marathwada; 1603 mm (34% excess) in Konkan region and 116 mm (-37% deficit) over Vidarbha was observed during 1 June - 15 July 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Konkan, Madhya Maharashtra and Marathwada is normal and Vidarbha is above normal for week-1 and; below normal over Konkan and normal over Vidarbha, Madhya Maharashtra and Marathwada for week-2.

Madhya Maharashtra

- In areas where soil is affected with white grub and termites, application of phorate granules @ 15 kg per ha is recommended.
- If sufficient moisture is available in the field, then it is advised to go for sowing of dry land crops. In case of intercropping Bajra + Tur (2:1) and Sunflower + Tur (2:1) is recommended.

Konkan

- Due to cloudy and humid weather condition, there is possibility of incidence of shoot borer on vegetative flush of mango. To protect, it is advised to spray Lambda cyhalothrin 5%EC @ 6ml or Quinalphos 25% EC @ 25 ml per 10 litres of water during clear weather.
- Due to rainfall during last week, it is advised to make arrangement to drain out excess water

from coconut and arecanut orchard and avoid water stagnation near base of stem.

Vidarbha

- In view of forecast of widespread moderate to heavy rainfall during coming week, it is advised to postpone spraying of pesticide, insecticide, and weedicides.
- Due to continuous rainy weather condition, it is advised to drain out excess water in waterlogged areas from standing crop field immediately.

Hisar

The amount of rainfall received over Hisar was 121 mm (-2% deficit) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) is normal for week-1 and above normal for week-2.

- Farmers were advised to apply need-based irrigation in planted vegetable crops and fruits plants.
- Under prevailing weather condition, farmers are advised for sowing of sorghum, maize and lobia as a fodder crop.

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 77 mm (-68% large deficit) and 76 mm (-59% deficit) rainfall observed over West Uttar Pradesh during 1 June - 15 July 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) is normal over East Uttar Pradesh and above normal over West Uttar Pradesh for week-1 and; above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under assured sufficient moisture, sowing of sorghum composite varieties like *Varsha*, *CSV-13*, *15*, *SPB -1388*, *Vijeta* and hybrid varieties like *CSH-16*, *9*, *14*, *18*, *13* and *CSH-23* is advised.
- Under prevailing weather condition, farmers are advised to pick up mature fruits from standing vegetables and transplant the new seedlings to the main field as early as possible.

Eastern Uttar Pradesh

- Under prevailing weather condition, to prevent yellow vein mosaic disease in okra, it is advised to spray Dimethoate 30 EC @ 1.5 ml/litre of water.
- Due to changing weather and increasing day temperature, farmers are advised to keep the animals inside the shade and clean the area around the shed to avoid infestation of house flies and others.

Jammu

177 mm of rainfall (16% excess) was received over Jammu during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Jammu is below normal for week-1 and normal for week-2.

- Due to rainy weather condition in past week, farmers are advised to make bund in their fields for *in situ* storage of rain water and utilize the same for puddling.

Assam

The amount of rainfall received over Assam during 1 June - 15 July 2022 was 957 mm (24% excess). The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Assam is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised to continue land preparation for cultivation of sesamum. Recommended varieties to obtain higher yield are *ST 1683*, *Punjab Til No. 1*, *AST-1* etc.
- To protect the sugarcane crop from lodging due to heavy rain and strong wind, farmers are advised to go for stripping and propping operation i.e. mechanical support to the crop.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 401 mm (12% excess) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Chhattisgarh is normal for week-1 and week-2.

- Under prevailing weather condition, intercultural operations are advised in tomato, brinjal, chilli, okra and other vegetable crops.
- Vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

Karnataka

Rainfall received during 1 June - 15 July 2022 over South Interior Karnataka was 358 mm (49% excess) and 213 mm (36% excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) is below normal over South Interior Karnataka and North Interior Karnataka for week-1 and; below normal over North Interior Karnataka and normal over South Interior Karnataka for week-2.

South Interior Karnataka

- In long duration field crops like pigeon pea, earthing up is advised for better availability of soil moisture to the crop rows.

Uttarakhand

The amount of rainfall received over Uttarakhand was 323 mm (-12% deficit) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Uttarakhand is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised to maintain proper drainage in the field to drain out excess water to avoid water stagnation.

Punjab

The amount of rainfall received over Punjab was 121 mm (-6% deficit) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022

and 22 - 28 July 2022) over Punjab is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, it is advised to start transplanting of basmati rice varieties (*CSR 30* and *Pusa Basmati 1509*) during 16-31 July.
- For the control of fruit rot and die back in chilli, it is advised to spray Folicur @ 250 ml or Indofil M 45 @ 750 g per acre at 10 days interval.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 211 mm (normal rainfall) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Farmers are advised for sowing of pulse crops with recommended varieties *Him mash 1*, *Pant U 19*, *UG 218* and *Palampur 93* of mash, *Shining Moong No. 1* and *Suketi* of moong and *Baizu* of kulth.

Gujarat

The amount of rainfall received over Gujarat was 472 mm (64% large excess) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over Gujarat is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to postpone chemical spray and fertilizer application activity and arrange drainage facility to remove excess rain water.

Rajasthan

The amount of rainfall received over East Rajasthan was 225 mm (34% excess) during 1 June - 15 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 July 2022 and 22 - 28 July 2022) over East Rajasthan is above normal for week-1 and week-2.

- There is a forecast of rain during coming weeks. Therefore, farmers are advised to postpone insecticide and weedicide sprays in vegetables and crops and also prepare bunds around the field to conserve moisture in the fields.
- Where the sufficient moisture is available in the field, farmers are advised to complete the sowing of maize. Improved varieties of maize are *Pratap QPM-1*, *HQPM-1*, *HQPM-5*, *PEHM-2* and hybrids are *Pratap hybrid maize-1*, *Pratap Makka-9*, *Pratap hybrid Makka-3*.

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