



## **National Agromet Advisory Service Bulletin**

based on

### **Extended Range Weather Forecast (ERFS)**

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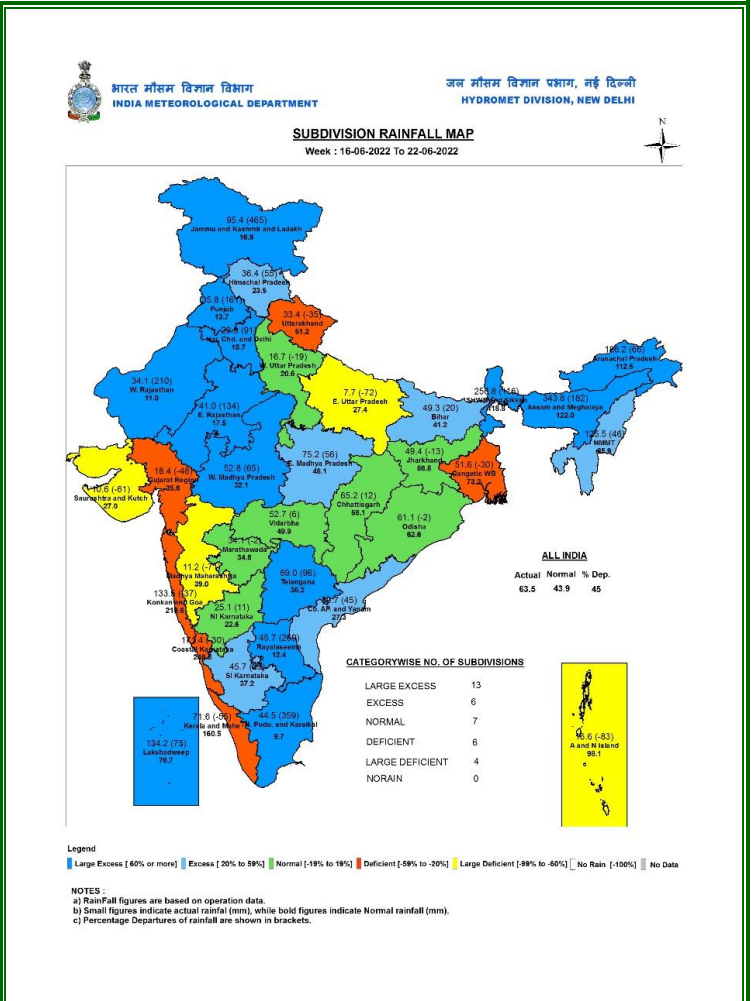
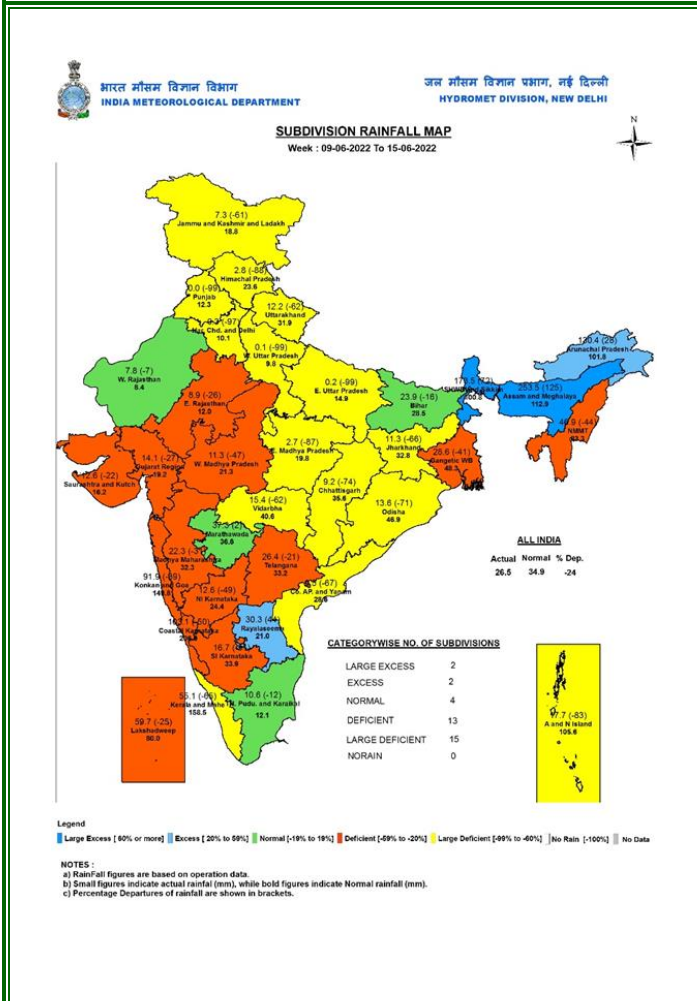
**AICRP on Agro-Meteorology (AICRPAM)  
Central Research Institute for Dryland Agriculture (CRIDA)  
Indian Council of Agricultural Research (ICAR)**

**&**

**India Meteorological Department (IMD)  
Earth System Science Organization**

**Realized Rainfall and Extended Range Forecast  
(Rainfall and Temperature)**

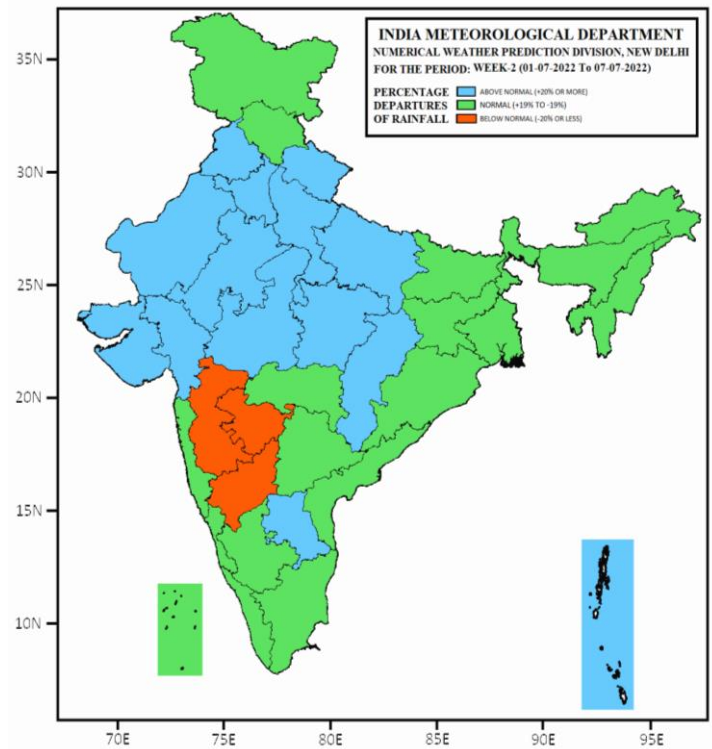
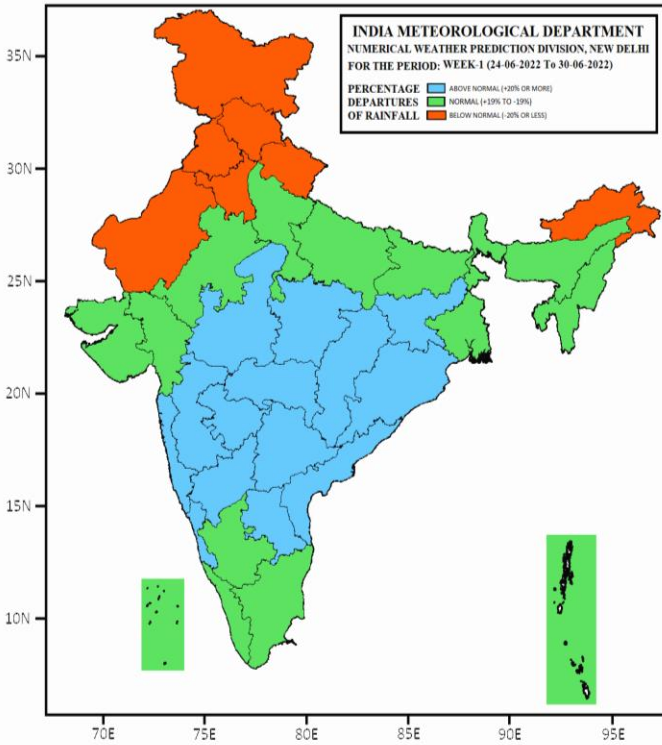
## Realized Rainfall (9<sup>th</sup> to 22<sup>th</sup> June, 2022)



- Normal or above normal rainfall occurred in both the weeks in Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, West Rajasthan, Marathwada, Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu-Kashmir & Ladakh, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Nagaland-Manipur-Mizoram-Tripura (NMMT), Odisha, Chhattisgarh, Madhya Pradesh, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, South Interior Karnataka and Lakshadweep.
- Below Normal rainfall/no rain occurred over rest of the States & UTs.

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 22<sup>nd</sup> June) (24<sup>th</sup> June to 7<sup>th</sup> July 2022)



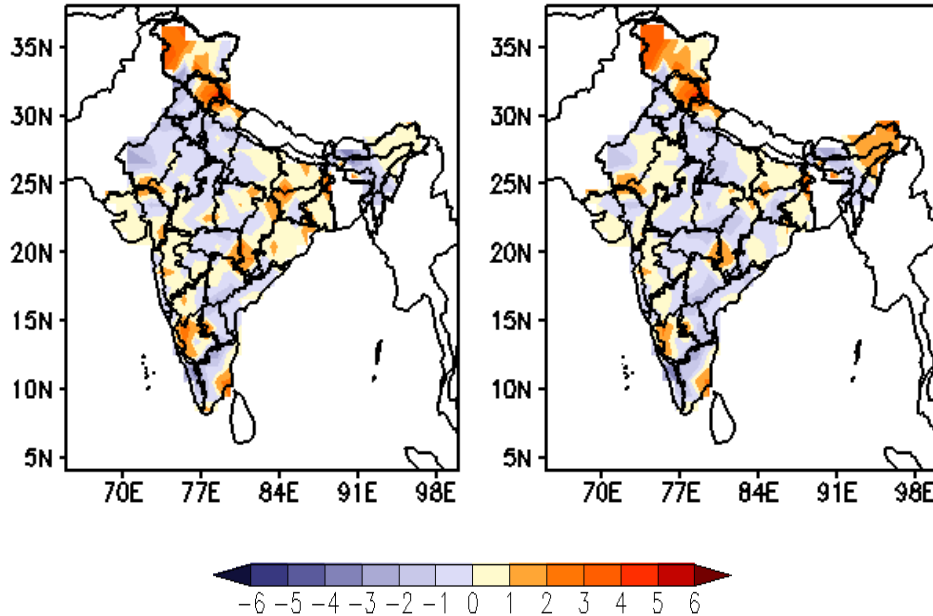
- **Week 1 (24.06.2022 to 30.06.2022):** Normal to slightly above normal rainfall is likely over the regions of Odisha, adjoining Chhattisgarh, Maharashtra, MP, north-western coastal areas etc. However, the rest of the regions will receive normal to slightly below normal rainfall.
- **Week 2 (01.07.2022 to 07.07.2022):** Monsoon rainfall over northwest and adjoining central India is likely to increase.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 22<sup>th</sup> June)  
(24<sup>th</sup> June to 7<sup>th</sup> July 2022)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 24Jun–30Jun)

(Week2: 01Jul–07Jul)



**Maximum Temperature (Tmax)**

- **Week 1 (24.06.2022 to 30.06.2022):** Maximum temperatures are very likely to rise by 2-4 $^{\circ}\text{C}$  over most parts of northwest India during 1<sup>st</sup> half of the week and no significant change in maximum temperatures very likely over rest parts of the country during the week.
- **Week 2 (01.07.2022 to 07.07.2022):** Maximum temperatures are likely to be below normal to near normal over the country.

## Strategic Agricultural Planning based on rainfall during the next two weeks till 07 July 2022

### Agromet Advisories

#### Kerala

The amount of rainfall received over Kerala is 221 mm (-57% deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) is normal for week-1 and week-2.

- During the rainy season, it is advised to provide proper drainage facilities to prevent rhizome rot in crops like ginger and turmeric. The incidence of this disease can be prevented by applying *Psuedomonas* solution.
- During rainy season, there is a chance of Anthracnose disease in cowpea and chilli. As a prophylactic measure, it is advised to apply 1% Bordeaux mixture or spray *pseudomonas* 20 g per litre.

#### Tamil Nadu

The amount of rainfall received over Tamil Nadu is 74 mm (76% large excess) during 01 - 24 June 2022. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) is 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/lit.
- Under prevailing hot weather condition, farmers are advised to provide adequate clean water and light to the fowls to avoid heat stroke.

#### Maharashtra

61 mm (-47% deficit) rainfall over Madhya Maharashtra; 97 mm (-7% deficit) in Marathwada; 280 mm (-44% deficit) in Konkan region and 77 mm (-36% deficit) over Vidarbha was observed during 01 - 24 June 2022. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is above normal for week-1 and; over Konkan and Vidarbha is normal and below normal over Madhya Maharashtra and Marathwada for week-2.

#### *Madhya Maharashtra*

- To reduce rate of evapotranspiration in fruit crops like grape, pomegranate, mango and sapota and to maintain soil temperature in fruit orchards, mulching with sugarcane trash or farm waste @ 5 to 7 tons per ha is recommended.
- In citrus fruit crop for the control of mealy bug, it is advised to spray of Rogar @ 2 ml per litre.

#### *Konkan*

- There is a forecast for heavy rainfall at most places of Konkan region, hence, it is advised to make proper arrangement to drain out excess water from arecanut orchard and avoid stagnation of rainwater near stem portion of newly planted palm.

- Due to forecast for heavy rainfall at most places, it is advised to postpone new plantation of mango, cashewnut, sapota, jackfruit, aonla etc. fruit crops.

#### *Vidarbha*

- Under prevailing weather condition, sowing of green gram and black gram is advised. Recommended green gram varieties are *PKV-green gold*, *PKV mug-8802*, *PKV-AKM-4* and for black gram *PKV udid 15*, *TAU-1*, *TAU-2* and *PDKV black gold (AKU-10-1)*.

#### *Marathwada*

- After receiving rainfall, plantation of new orchards of sapota and pomegranate is advised.
- For cultivation of maize as a fodder crop select varieties like *African Tall*, *Manjri*, Composite varieties like *Ganga safed*, *Vijay* etc.

#### **Hisar**

The amount of rainfall received over Hisar was 30 mm (-19% deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) is below normal for week-1 and above normal for week-2.

- In view of variable weather forecast, farmers are advised to do the sowing of *kharif* crops.
- 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 13 mm (-80% large deficit) and 17 mm (-65% large deficit) rainfall observed over West Uttar Pradesh during 01 - 24 June 2022. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; above normal for week-2.

#### *Western Uttar Pradesh*

- Under assured irrigation facilities, farmers are advised for sowing of kharif maize varieties such as *Hybrid Dakan-107*, *Malveya-2*, *JH-3459*, *Prakash*, *PSM-5*, *Pro-303*, *KH-510*, *MMH-113* and composite varieties *Novjoti*, *Pusa-2*, *Prabhat* and *Azad uttam*.
- Farmers are advised to follow regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

#### *Eastern Uttar Pradesh*

- Under prevailing weather condition, farmers are advised for nursery raising of late maturity paddy varieties such as *Sabha Mahsuri*, *Swarna*, *Swarna sub-1*, *Jallahri* and *Jal Priya* etc. at an earliest.
- Due to changing weather and increasing day temperature, farmers are advised that, keep the animals inside the shade and clean the area around the shed to avoid infestation of house flies and others.



## **Jammu**

111 mm of rainfall (103% large excess) was received over Jammu during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Jammu is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, farmers may go for transplanting of rainy seasonal annuals (gaillardia, balsam, cosmos, portulaca, kochia, sunflower, morning glory, gomphrena, celosia etc.) during week-2.
- To control the fruit borer, in tomato, it is advised to install pheromone traps @ 2/kanal along with spray of neem oil @ 3ml/litre.

## **Assam**

The amount of rainfall received over Assam during 01 - 24 June 2022 was 745 mm (97% large excess). The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Assam is normal for week-1 and week-2.

- High humidity coupled with water stagnation due to continuous rainfall may aggravate the incidence of 'Gummosis' disease in the citrus crops. As preventive measure against the disease, proper drainage facilities should be provided to remove the excess water from the orchard.
- 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 90 mm (-30% deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Chhattisgarh is above normal for week-1 and week-2.

- Under prevailing weather condition, drainage channels in the orchards is advised to maintain in good condition.
- Vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

## **Karnataka**

Rainfall received during 01 - 24 June 2022 over South Interior Karnataka was 110 mm (-6% deficit) and 76 mm (-11% deficit) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) is normal over South Interior Karnataka and above normal over North Interior Karnataka for week-1 and; normal over South Interior Karnataka and below normal over North Interior Karnataka for week-2.

### *South Interior Karnataka*

- Take up land preparation and strengthen the bund with fodder grass which will facilitate conservation of rainwater due to pre-monsoon showers.
- Farmers are advised to take up ploughing in areas where rainfall received, to improve

infiltration and conservation of rain water but also avoids soil erosion.

### **Uttarakhand**

The amount of rainfall received over Uttarakhand was 47 mm (-62% large deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Uttarakhand is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to cover the fruit plant to protect from hails.

### **Andhra Pradesh**

The amount of rainfall received over Coastal Andhra Pradesh was 71 mm (-17% deficit) and over Rayalaseema 102 mm (-66% large deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Coastal Andhra Pradesh and Rayalaseema is above normal for week-1 and; above normal over Rayalaseema and normal over Coastal Andhra Pradesh for week-2.

- Farmers growing castor in Kurnool and Ananthapuramu districts are advised to select the varieties suitable for dryland conditions viz., *Kranthi, Jwala, Jyothi, Kiran, PCH-111, DCH-519, DCH-177* and *ICH-66*.
- Present weather conditions are favourable for the incidence and spread of sigatoka leaf spot disease in banana grown in Vizianagaram, Nellore and Kadapa districts. To control the spread of this disease, spraying of Propiconazole @ 0.1% (or) Tebuconazole + Trifloxystrobin @ 1ml/litre for 2-3 times in 25 days interval is recommended.

### **Punjab**

The amount of rainfall received over Punjab was 36 mm (normal rainfall) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Punjab is below normal for week-1 and above normal for week-2.

- Harvest the cucurbits and other vegetables like tomato, chilli, brinjal and okra at regular intervals to get maximum yield and irrigate crops regularly at the interval of 4-5 days to avoid water stress.
- For the management of root-knot nematode in rice crop, it is advised to apply mustard cake @ 40 g per square metre 10 days before sowing of nursery.

### **Rajasthan**

The amount of rainfall received over Rajasthan was 51 mm (15% excess) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Rajasthan is normal for week-1 and above normal for week-2.

- 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 Pratap hybrid maize-1, Pratap Makka-9 and Pratap hybrid Makka-3.*

- For the control of shoot fly in sorghum, sowing of crop should be completed within the week after receiving of first monsoon rainfall. Improved varieties of sorghum are *CSV-15, CSV-17, Pratap sorghum-1430, CSV-23*, fodder purpose (Multicut) are *MP charri, SSG-59-3* for Single cut *Rajasthan charri-1, Rajasthan charri-2, Pratap charri-1080*.

### **Himachal Pradesh**

The amount of rainfall received over Himachal Pradesh was 41 mm (-43% deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- High temperature is expected in the next few days, therefore, farmers are advised for harvesting of mature vegetables at morning and evening hours and keep it in the shade. If no rains are received then apply light and frequent irrigation in morning and evening hours which other-wise lead to poor pollination and thus drop in yield of the crop.

### **Gujarat**

The amount of rainfall received over Gujarat was 45 mm (-44% deficit) during 01 - 24 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 June 2022 and 1 - 7 July 2022) over Gujarat is normal for week-1 and above normal for week-2.

- With the onset of monsoon, sowing of *kharif* pearl millet is advised.
- Keep animal indoor in rainy condition. Keep fodder at safe place to avoid spoilage from rainfall. Spray phenyl in the animal shed to avoid flies and mosquitoes.

### **Disclaimer:**

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