



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 01-14 July 2022

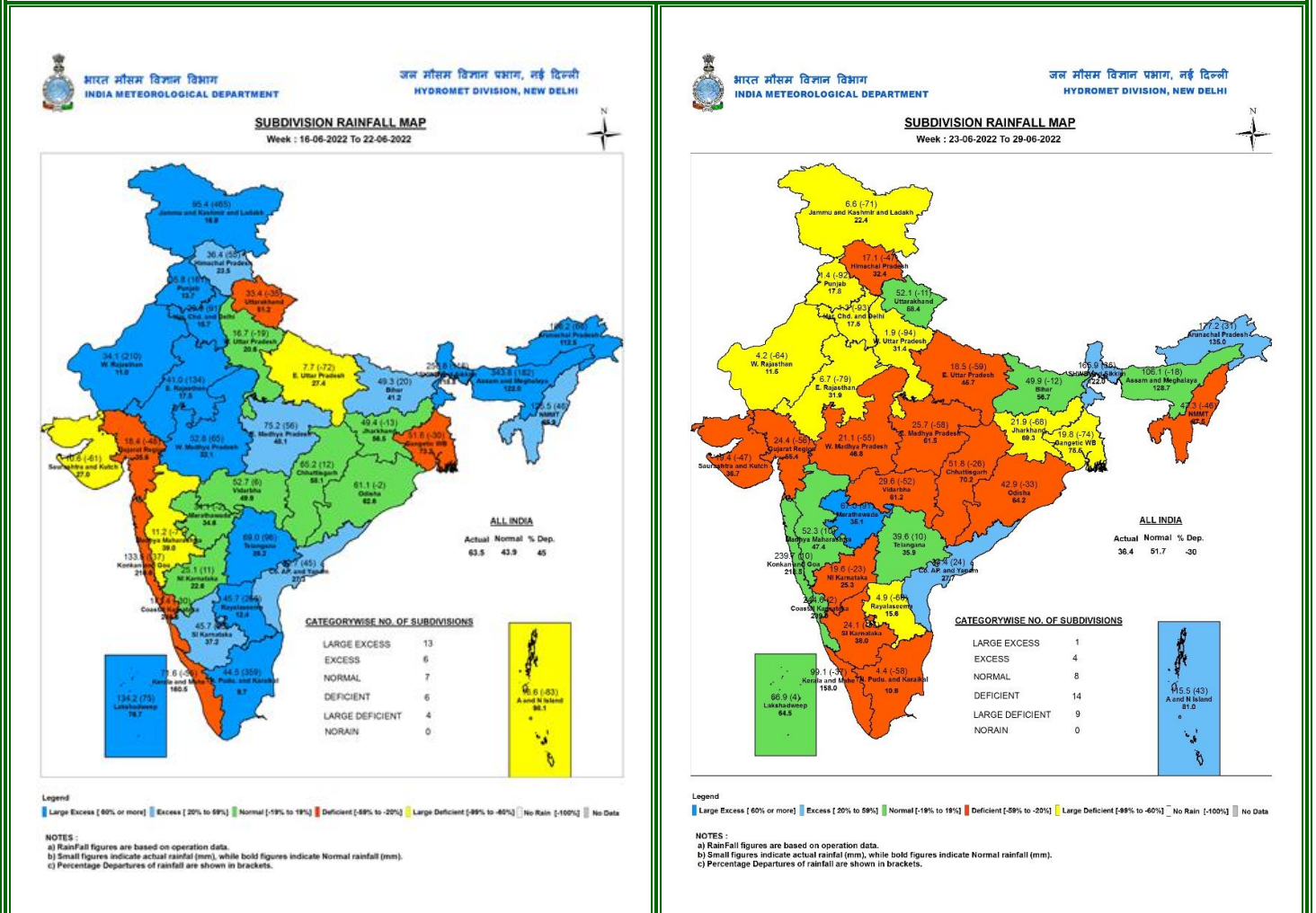
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Central Research Institute for Dryland Agriculture (CRIDA)
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&
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Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

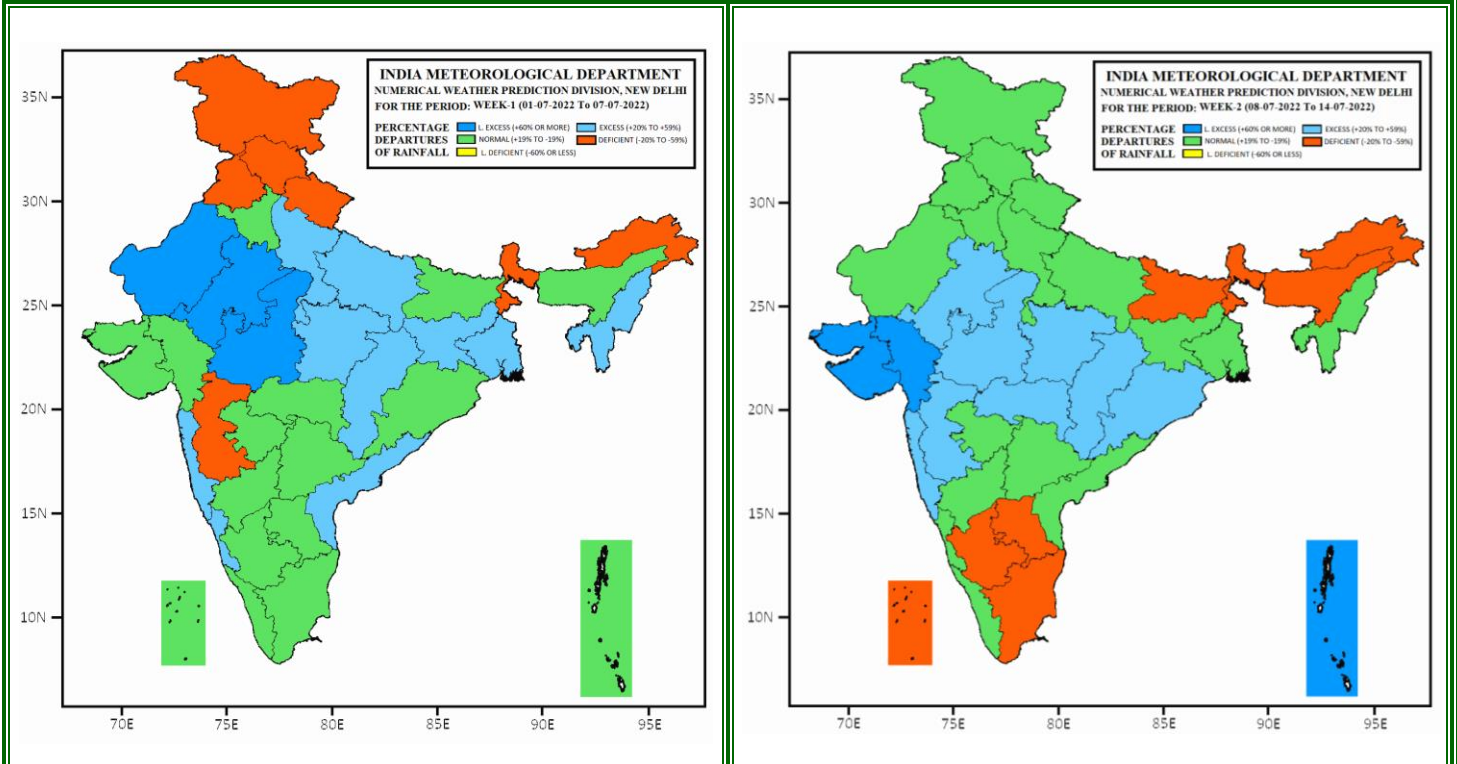
Realized Rainfall (16th to 29th June, 2022)



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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC 29th June) (1st to 14th July 2022)



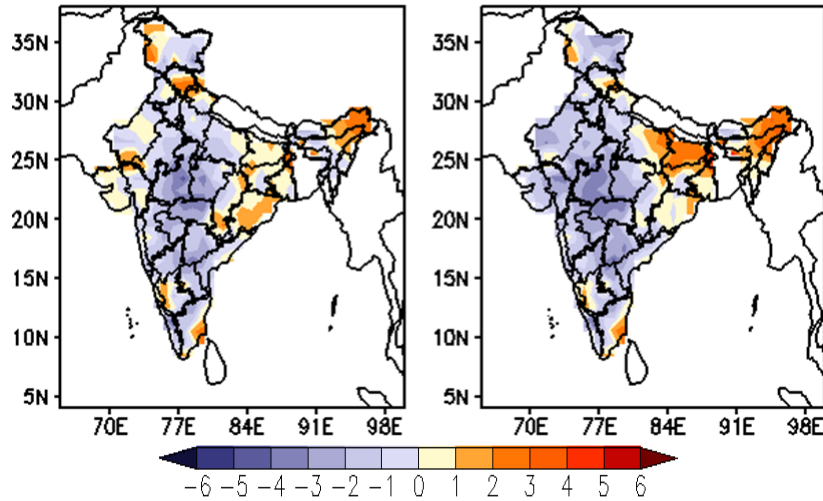
- **Week 1 (01.07.2022 to 07.07.2022):** Rainfall is likely to be above normal over northern plain regions covering UP, Bihar, Jharkhand, Haryana, Rajasthan, adjoining central parts of India (Odisha, Madhya Pradesh and Chhattisgarh) and western coastal region in week 1. Parts of extreme north India, northeast India and south peninsular India will have normal to slightly below normal rainfall in week 1.
- **Week 2 (08.07.2022 to 14.07.2022):** Rainfall over the central and northwest parts of India will be above normal, whereas, rainfall over northeast India and south peninsula is likely to be below normal.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 29th June)
(1st to 14th July 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 01Jul–07Jul)

(Week2: 08Jul–14Jul)



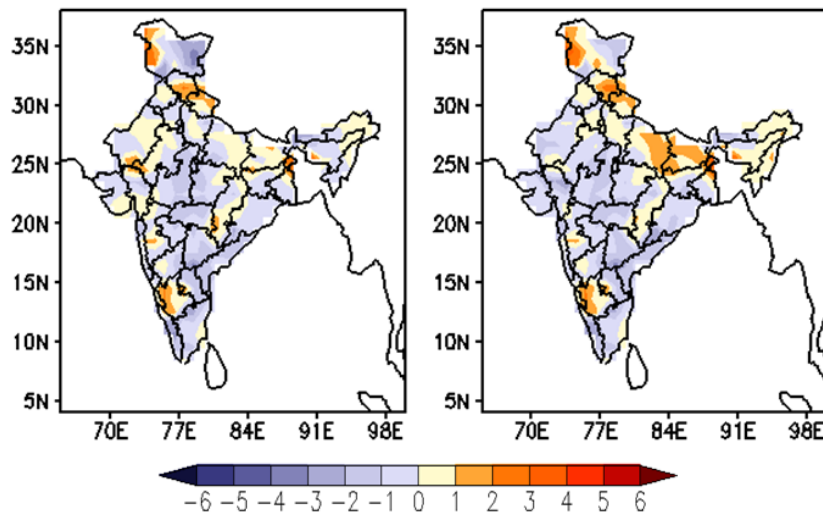
Maximum Temperature (Tmax)

- **Week 1 (01.07.2022 to 07.07.2022) and Week 2 (08.07.2022 to 14.07.2022):** Some parts of eastern coastal region of Odisha, Gangetic West Bengal, adjoining Jharkhand and North-eastern parts of India will have slightly above normal Tmax in week 1 and week 2. However, over rest of the region, Tmax will be slightly below normal.

MME forecast Tmin anomaly (Deg C)

(Week1: 01Jul–07Jul)

(Week2: 08Jul–14Jul)



Minimum Temperature (Tmin)

- **Week 1 (01.07.2022 to 07.07.2022) and Week 2 (08.07.2022 to 14.07.2022):** Parts of Uttar Pradesh, Bihar, Jharkhand, Odisha, Gangetic West Bengal and adjoining North-eastern parts of India will have slight above normal Tmin in week 1 and week 2. However, over rest of the region, Tmin will be normal to slightly below normal.

Strategic Agricultural Planning based on rainfall during the next two weeks till 14 July 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 349 mm (-48% deficit) during 1 June - 1 July 2022. The extended range weather forecast (rainfall) for the next two weeks (1 - 7 July 2022 and 8 - 14 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 *Pseudomonas* 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 84 mm (60% excess) during 1 June - 1 July 2022. The extended range weather forecast (rainfall) for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) is normal for week-1 and below normal for 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

100 mm (-39% deficit) rainfall over Madhya Maharashtra; 148 mm (7% excess) in Marathwada; 604 mm (-18% deficit) in Konkan region and 116 mm (-37% deficit) over Vidarbha was observed during 1 June - 1 July 2022. The extended range weather forecast (rainfall) for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Konkan is above normal, Madhya Maharashtra is below normal, Marathwada and Vidarbha is normal for week-1 and; above normal over Konkan, Vidarbha and Madhya Maharashtra and over Marathwada is normal 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.

Konkan

- Due to cloudy and humid weather condition, there is possibility of shoot borer infestation 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 litre of water during clear weather.
- During rainy season, goat shows symptoms like diarrhoea, reduction in feed intake and weight loss due to worms, if infection of worms is observed, it is advised to give Albendazole @7.5 mg per kg weight of goat.

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)*.
- There is a forecast of rains and thunderstorm/ lightning at isolated places, it is advised to keep farm animals indoor during thunderstorm/lightning.

Hisar

The amount of rainfall received over Hisar was 68 mm (17% excess) during 1 June - 1 July 2022. The extended range weather forecast (rainfall) for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) is normal for week-1 and week-2.

- In view of dry weather condition, farmers are advised to apply irrigation in planted vegetable crops and fruits.
- 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 61 mm (-47% deficit) and 45 mm (-46% deficit) rainfall observed over West Uttar Pradesh during 1 June - 1 July 2022. The extended range weather forecast (rainfall) for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) is above normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; 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*.
- There is a rainfall forecast during this week, therefore, farmers are advised to pick up mature fruits on standing vegetables crops and transplanting of new seedlings is advised as early as possible.

Eastern Uttar Pradesh

- Under optimum soil moisture condition, sowing of pigeon pea with improved varieties such as *Paras*, *UPAS 120*, *Type-21*, *Sharad* and *ICPL* etc. is advised.
- 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

119 mm of rainfall (49% excess) was received over Jammu during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Jammu is below normal for week-1 and normal for week-2.

- After receiving sufficient rainfall, transplanting of chilli, tomato and brinjal from nursery to field area is advised.
- Due to chances of rainfall, transplanting of normal as well as basmati rice is advised.

Assam

The amount of rainfall received over Assam during 01 June - 01 July 2022 was 874 mm (73% large excess). The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Assam is normal for week-1 and below normal for week-2.

- Provide mechanical support to the crops like banana, citrus, papaya etc. and make arrangements to drain out excess water from the fields. Harvest the matured vegetable and fruits and transfer it to a safer location.
- 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 145 mm (-27% deficit) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Chhattisgarh is above normal for week-1 and week-2.

- According to the weather forecast, keeping in view the possibility of light to moderate rainfall in the coming days, farmers are advised to make arrangements for proper drainage in the fields planted with vegetables.
- Vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

Karnataka

Rainfall received during 01 June - 01 July 2022 over South Interior Karnataka was 144 mm (-7% deficit) and 98 mm (-10% deficit) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) is normal over South Interior Karnataka and North Interior Karnataka for week-1 and; below normal over South Interior Karnataka and 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 133 mm (-29% deficit) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 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.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 111 mm (-2% deficit) and over Rayalaseema 109 mm (47% excess) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Coastal Andhra Pradesh above normal and Rayalaseema is normal for week-1 and; below normal over Rayalaseema and normal over Coastal Andhra Pradesh for week-2.

- In Ananthapuramu, Kurnool, Kadapa, Chittoor and Prakasam districts, farmers cultivating redgram are advised to select the varieties like *LRG-41*, *LRG-52*, *PRG-176*, *ICPL 85063* and *ICPL 87119*.
- 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 60 mm (3% excess) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Punjab is below normal for week-1 and 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.
- To protect the fruit pants from summer heat, it is advised to apply light irrigations at regular intervals especially to citrus, pear, litchi, mango orchards bearing fruit in this season.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 76 mm (-28% deficit) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, farmers are a advised for picking in tea at 8-10 days interval to maintain the quality and productivity.

Gujarat

The amount of rainfall received over Gujarat was 79 mm (-45% deficit) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Gujarat is normal for week-1 and above normal for week-2.

- Earthing up is advised in sugarcane before onset of monsoon. In poorly drained field, dig 1 m deep drainage around field before rain start.
- 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.

Madhya Pradesh

The amount of rainfall received over Madhya Pradesh was 135 mm (-15% deficit) during 01 June - 01 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (1 - 7 July 2022 and 8 - 14 July 2022) over Madhya Pradesh is above normal for week-1 and week-2.

- Farmers are advised to complete the construction of bunds and other land configuration for conserving soil and water in the monsoon season.

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