



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

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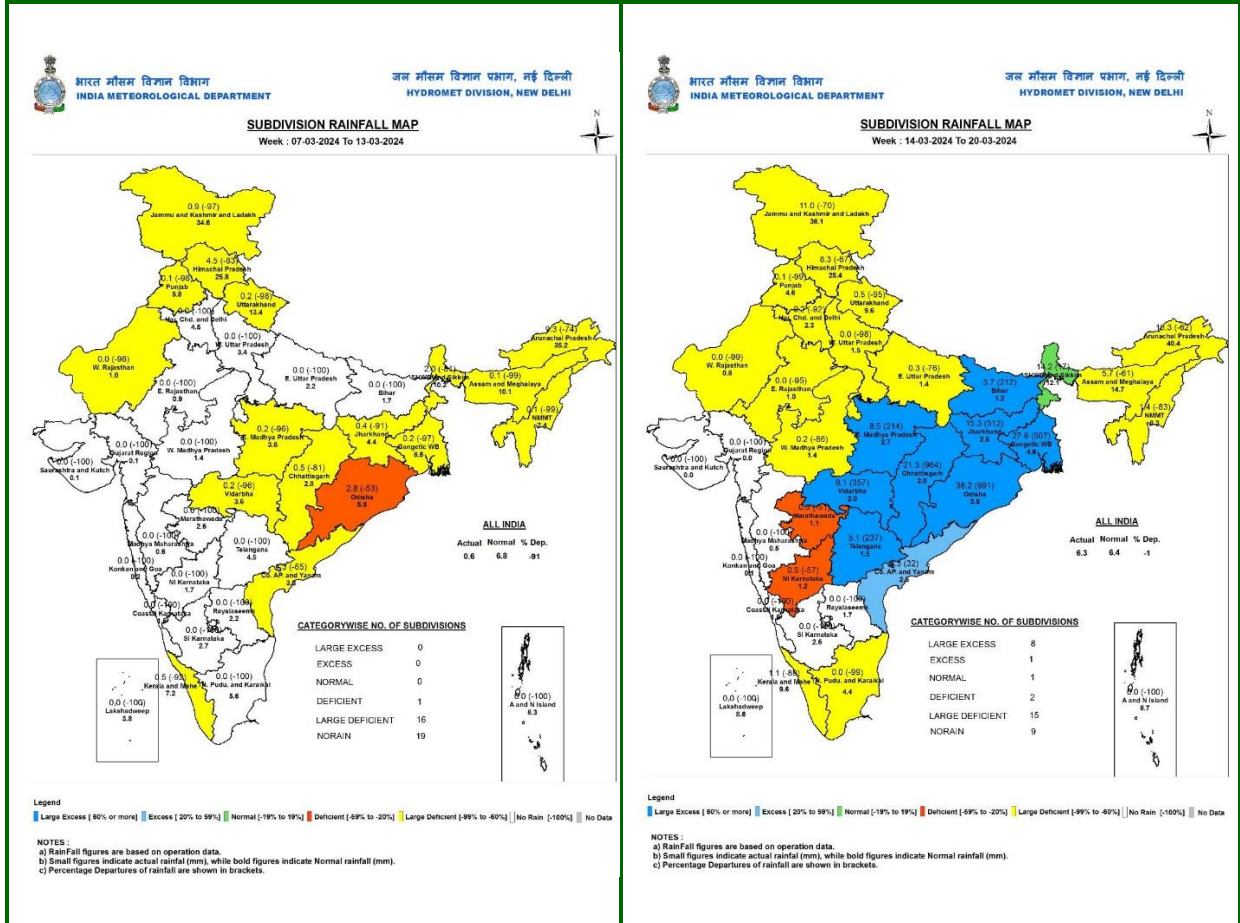
India Meteorological Department (IMD)

पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

Realized Rainfall and Extended Range Forecast

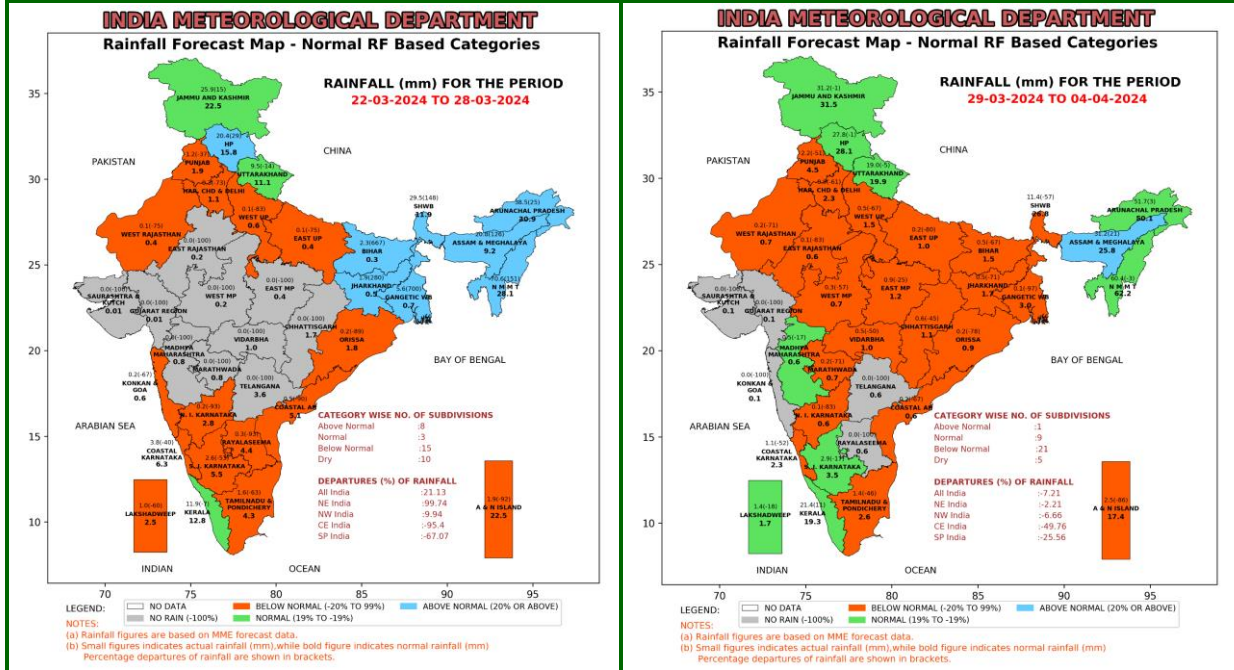
Realized Rainfall (07th to 20th March, 2024)



- Normal or above normal rainfall occurred in either of the two weeks over Bihar, Jharkhand, West Bengal & Sikkim, East Madhya Pradesh, Chhattisgarh, Odisha, Vidarbha, Telangana and Coastal Andhra Pradesh & Yanam.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 20th March, 2024) (22nd March to 04th April, 2024)



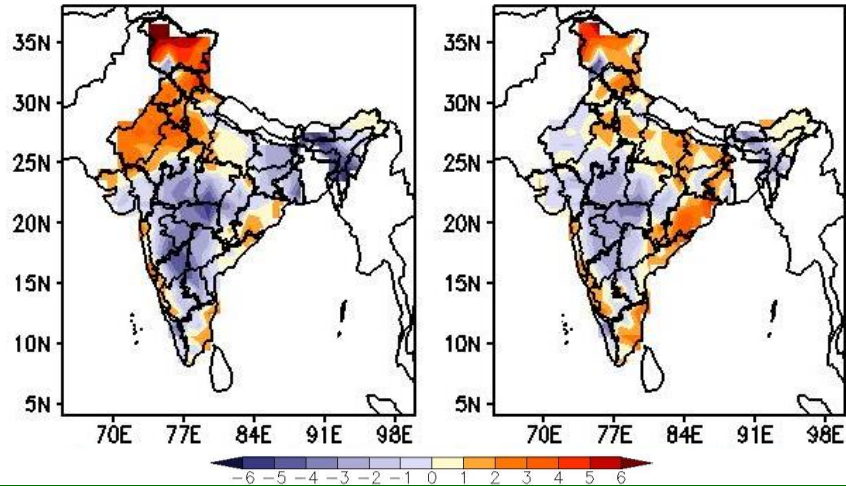
- **Week 1 (22.03.2024 to 28.03.2024) and Week 2 (29.03.2024 to 04.04.2024):** Rainfall is likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Northeast region and Kerala.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 20th March, 2024)
(22nd March to 04th April, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 22Mar–28Mar)

(Week2: 29Mar–04Apr)



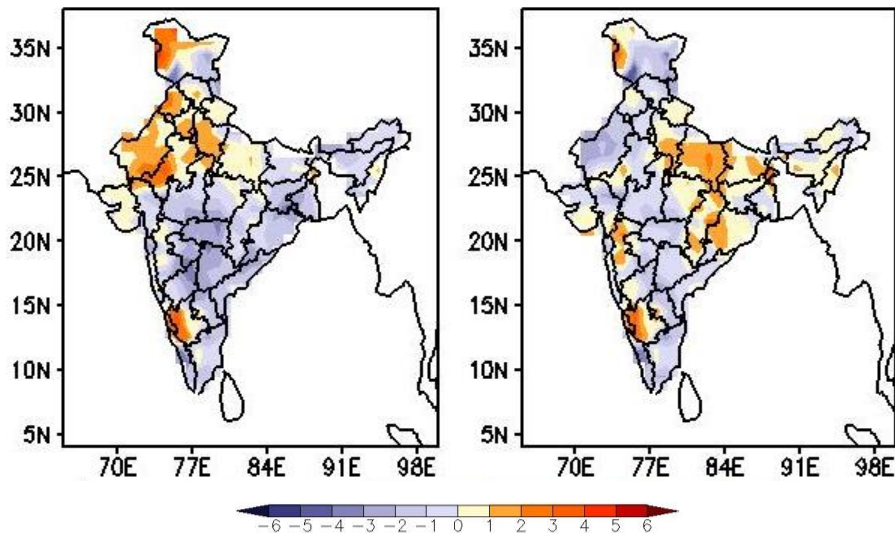
Maximum Temperature (Tmax)

- **Week 1 (22.03.2024 to 28.03.2024):** Maximum temperature is likely to be above normal over many parts of Northwest India and parts of Odisha, Tamil Nadu, Coastal Karnataka and Konkan & Goa.
- **Week 2 (29.03.2024 to 04.04.2024):** Maximum temperature is likely to be above normal over many parts of Northwest India, East India, Coastal Andhra Pradesh, Tamil Nadu, Coastal Karnataka and Konkan & Goa.

MME forecast Tmin anomaly (Deg C)

(Week1: 22Mar–28Mar)

(Week2: 29Mar–04Apr)



Minimum Temperature (Tmin)

- **Week 1 (22.03.2024 to 28.03.2024):** Minimum temperature is likely to be above normal over most parts of Northwest India and parts of Karnataka.
- **Week 2 (29.03.2024 to 04.04.2024):** Minimum temperature is likely to be above normal over East India, parts of Karnataka, Uttar Pradesh and Maharashtra.

Agromet Advisories

Uttar Pradesh

18 mm (111% large excess) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 13 mm (124% large excess) during 01 March - 22 March 2024. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is below normal over Western Uttar Pradesh and Eastern Uttar Pradesh during week 1 and; week 2.

Western Uttar Pradesh

- Due to the forecast of below-normal rainfall and higher maximum temperature forecast during this week, farmers are advised for light irrigation in wheat crop.
- Due to the clear weather forecast during this week farmers are advised to sow *zaid* maize crop in vacant fields with recommended composite varieties viz., *Novjoti, Pusa-2, Sweta and Azad Uttam* and hybrid varieties viz., *Hybrid Dakan-107, Malviya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2, DKC-9108, DKC-7074*

Eastern Uttar Pradesh

- Keeping view in weather, farmers are advised to start land preparation for early sowing of lady's finger with recommended varieties are *A-4, Parbhani Kranti and Arka anamika* cultivars. Ensure optimum moisture for proper germination before sowing of the crop.
- To prevent flower and fruit drop in mango crop, farmers are advised to spray NAA 0.0025 ml / litres (25 ppm) or Gibberellic acid (25 ppm).

Himachal Pradesh

110 mm (22% excess) rainfall was received over Himachal Pradesh during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Himachal Pradesh is above normal for week 1 and; normal for week 2.

Farmers can also prepare the nursery for vegetables in polytubes for planting in the coming days

- **Cucumber:** *Poinsette, Long Green and Hybrids: Malini, 243 Malav, Mathura, Maharaja, Amrit and US-6125.*
- **Summer Squash:** *Pusa Alankar and Australian Green*
- **Bitter Gourd:** *Solan Hara, Solan Safed and Hybrids: F1 Chaman and F1 Palli*
- **Bottle Gourd:** *Pusa Manjri, Pusa Meghdoot, PSPL and Warad*

Jammu

90 mm (-25% deficit) rainfall was received over Jammu during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Jammu is normal for week 1 and; week 2.

- Due to chances of normal rainfall, farmers are advised to postpone the irrigation in wheat crop (dough stage) and rabi pulses crop (pod formation stage) as irrigation before rainfall may cause lodging of the crop.
- To control red pumpkin beetle in cucurbits, especially cucumber and bottle gourd, incorporate Phorate granules 10 G in the pits during transplanting.

- To control white rust in the mustard crop at the siliqua development stage, farmers are advised to apply MetalaxylM4%+ Mancozeb64% WP (Ridomil-MZ) @ 2.0 g/litre of water or remove the affected branch/part of the plant, cover it properly and bury it in the earth to prevent the further spread of infection.

Rajasthan

4 mm (17% excess) rainfall was received over East Rajasthan during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over East Rajasthan is no rainfall for week 1 and; below normal for week 2.

- Under prevailing weather conditions, farmers are advised to transplant young seedlings of tomato, chilli and cole crops in this week.
- Also, keeping increasing temperature in view, farmers are advised for light irrigation in standing crops and vegetables as per requirement.
- Due to the forecast of no rainfall this week, farmers are advised to harvest wheat, timely sown gram crop and fenugreek crop.

Haryana

15 mm (18% excess) rainfall was received over Haryana during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Haryana is below normal for week 1 and; week 2.

- Due to the forecast of below-normal rainfall, farmers are advised for irrigation in wheat crop and application of fertilizers
- Due to the possibility of dry weather, farmers are advised to spray recommended chemicals to control mustard aphids, white rust and Alternaria blight diseases in the mustard crop.
- Under prevailing weather conditions, farmers are advised to harvest the cucurbits and other vegetables like tomato, chilli, brinjal and okra at regular intervals to get maximum yield.

West Bengal

40 mm (113% large excess) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 59.5 mm (67% large excess) during 01 March - 22 March 2024. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is above normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week 1; and below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week 2.

- Due to the forecast of above-normal rainfall in this week, farmers are advised that do not provide extra irrigation in *boro* rice this week.
- Due to the forecast of above-normal rainfall in this week, farmers are advised to stop fertilizer and pesticide applications in this week.

Jharkhand

31 mm (117% large excess) rainfall was received over Jharkhand during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Jharkhand is above normal for week 1 and; below normal for week 2.

- After harvesting of rabi crops, farmers are advised sowing summer maize. Recommended improved varieties are *BAUMH-05*, *Yellow flint*, *Prakash*, and *Vivek* hybrid maize. At the time of field preparation, apply 40 to 60 quintals FYM or compost per acre.
- Under assured irrigation facilities, farmers are advised to cultivate summer moong after harvesting of *rabi* crop. Use improved varieties-*MML-688*, *HUM-16*, *IPM-2*, 3. Use 8 to 10 kg seeds per acre
- Under prevailing weather conditions, there may be a chance of late blight infestation in tomato crops. it is advised to spray Azoxystrobin 23% SC @ 1ml or Captan 50% WP @ 2.5 gram per liter water at 10-day intervals.

Assam

21 mm (-49% deficit) rainfall was received over Assam during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Assam is above normal for week 1 and; week 2.

- In areas with heavy to medium textured soils and having assured irrigation facilities, farmers are advised to continue nursery sowing of *ahu* rice seeds. Select seeds of recommended semi-dwarf varieties like *IR-36*, *Lachit*, *Chilarai*, *Dishang* etc. for obtaining higher yield.
- Due to the forecast of above-normal rainfall in this week, farmers are advised to postpone the second topdressing of urea in *boro* rice till clear weather.
- Due to forecast of above-normal rainfall in this week, farmers are advised to postpone the sowing of seeds of okra in the main field till clear weather. To obtain higher yield farmers are advised to select seeds of recommended varieties like *Pusa Sawani*, *Arka Anamika*, *Parbhani Kranti* etc.

Chhattisgarh

29 mm (284% large excess) rainfall was received over Chhattisgarh during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Chhattisgarh is no rainfall for week 1 and; below normal rainfall for week 2.

- Prevailing weather is optimum for sowing/planting summer crops like bottle gourd, ridge gourd, bitter gourd, pumpkin, sponge gourd, watermelon, melon, and cucumber.
- As there is a forecast of no rainfall this week, farmers are advised to complete the harvesting work of timely sown rabi crops i.e. chickpea, pea, mustard, lentil, and lathyrus crops and keep the harvested crop in a safe place.
- Inter-culture, fertilizer application, and earthing followed by irrigation are advised in sugarcane crop at knee height stage.

Odisha

46 mm (214% large excess) rainfall received over Odisha during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) over Odisha is below normal for week 1 and; week 2.

- Due to heavy rainfall that occurred in the past week, farmers are advised to make bunds for conserving rainwater in the paddy field. Make bund higher and wider so that more rainwater can be conserved in the field.
- Drain out excess water from vegetable nurseries and non paddy fields by keeping drain ends open.
- There is a chance of infestation of swarming caterpillars in paddy. To control this, it is advised to spray Quinalphos 25 % EC 1ml or Lambda-cyhalothrin @ 2 ml per litre of water.

Maharashtra

0.4 mm (-83% large deficit) rainfall over Madhya Maharashtra; 12 mm (34% excess) rainfall over Vidarbha; 0.6 mm (-90% large deficit) rainfall over Marathwada; and no rainfall over Konkan region was recorded during 01 March - 22 March 2024. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is below rainfall over Konkan and no rainfall over Vidarbha, Madhya Maharashtra and Marathwada for week 1 and no rainfall over Konkan and normal over Madhya Maharashtra and below normal over Vidarbha and Marathwada for week-2, respectively.

Parbhani

- As per the forecast of no rainfall, dry weather and a gradual rise in maximum temperature during this week, irrigation management is advised in fruit orchards, summer sesame and sugarcane crops as per requirement. For moisture conservation and maintenance of soil temperature, mulching is advised in fruit orchards.
- Under prevailing weather conditions, farmers are advised to provide sheds to newly planted citrus plants to protect them from sun rays.

Vidarbha

- Due to the forecast of no rainfall during this week, farmers are advised to apply irrigation during the milk/grain stage in very late sown wheat crops to avoid soil moisture stress. And, harvest the matured earlier sown or timely sown wheat crop and store it at a safer place.
- Farmers are advised to undertake need-based inter-culture operations in groundnut crop to loosen the surface soil and keep the crop weed-free.

Madhya Maharashtra

- Farmers are advised to carry out deep ploughing of the field across the slope for effective weed control and to expose pupal stages of different insect pests.
- Due to the forecast of no rainfall this week, field bunding and repairing of damaged field boundaries is advised. Farm ponds, wells and bore well recharging is advised to be carried out during the summer season for water conservation.

Kerala

4 mm (-85% large deficit) rainfall received over Kerala during 01 March - 22 March 2024. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is normal for week 1 and; week 2.

- Since dry and hot weather is prevailing and forecast for normal rainfall during this week, farmers are advised to irrigate the crops as per need to ensure adequate soil moisture. Proper

mulching is advised to follow to conserve soil moisture. Adopt drip irrigation method for maximum water use efficiency.

- Due to the increase in atmospheric temperature, the attack of sucking pests was increased. To control, it is advised to apply 2% neem oil emulsion once a week or by spraying *Lecanicillium lecanii* at 20 gm per litre of water.
- During high temperatures, there is a chance of a brown plant hopper attack in rice. To manage, it is advised to spray Carbosulfan 25% EC @1 ml or Triflumezopyrim 10% w/w SC @0.5 ml per litre of water.

Tamil Nadu

1 mm (-94% large deficit) rainfall received over Tamil Nadu during 01 March - 22 March 2024. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is below normal for week 1 and; week 2.

- Due to the forecast of dry weather with high wind speed over Tamil Nadu, farmers are advised for irrigation as per soil moisture conditions in all irrigated crops.
- Due to heavy dew falls there is a possibility of rice blast disease occurrence. To control the rice blast disease, it is advised to spray Azoxystrobin 25 SC ml/litre.
- Dry weather may induce tobacco cutworm in chilli crops. To prevent this, it is advised to spray with Spinosad 45% SC 3.2 ml/10 litres of water or Emamectin benzoate 5% SG 4 g/10 litres.

Andhra Pradesh

No rainfall was received over Rayalaseema and 8 mm (-12% deficit) rainfall was received over Coastal Andhra during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is no rainfall over Rayalaseema and Coastal Andhra Pradesh for week 1 and; below normal over Coastal Andhra Pradesh and no rainfall over Rayalaseema for week-2.

- Given no rain in Andhra Pradesh during this week, farmers are advised to give frequent irrigations to all crops like mango (fruit formation stage) at 10-15 days intervals and banana (physiological maturity stage) at 3-4 days interval based on soil conditions.
- The farmers are also advised to cover the peduncle and whole bunch with dried banana leaves to protect them from direct sunlight.
- Current weather conditions are congenial for the incidence of powdery mildew and jassid in mango. For effective control, farmers are advised to spray Hexaconazole @ 2.0 ml or Carbendazim @1.0 g or Fipronil @2.0 ml or Imidacloprid @0.5 ml per litre of water.
- Farmers are advised to periodically spray water during peak hot hours to reduce the temperature and heat load on animals.

Karnataka

No rainfall was received over South Interior Karnataka, 2 mm (-70% large deficit) Coastal Karnataka and 0.6 mm (-90% large deficit) over North Interior Karnataka during 01 March - 22 March 2024. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 March 2024 and 29 March - 04 April 2024) is below normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week 1 and; below normal over North Interior Karnataka and Coastal Karnataka and normal over South Interior Karnataka for week-2.

South Interior Karnataka

- Mulching (residual crop residue after harvesting of *rabi* and other crops) and one or two protective irrigation is recommended for mango and other horticultural crops to conserve soil moisture due to high temperatures and dry weather persisting over long period
- Farmers are advised for one or two protective irrigation at the marble stage to protect fruit drop at this stage.
- Carry out threshing of the harvested crops, the grains should be dried by retaining the moisture percentage of cereals to 11-12 %.
- Periodically water spray during peak hot hours lowers the temperature and consequently reduces the heat load on animals. Maintain proper ventilation for free circulation of air in the sheds and also provide clean drinking water to animals and water troughs regularly cleaned.

North Interior Karnataka

- As the forecast of below normal during this week, farmers are advised to provide irrigation to horticultural crops.
- Complete the harvesting of matured crops like groundnut, sorghum, wheat, safflower, sunflower and sugarcane crops.
- Summer ploughing is advised across the slope to incorporate crop residues in the soil, to conserve runoff water of pre-monsoon rainfall and reduce soil erosion.

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