



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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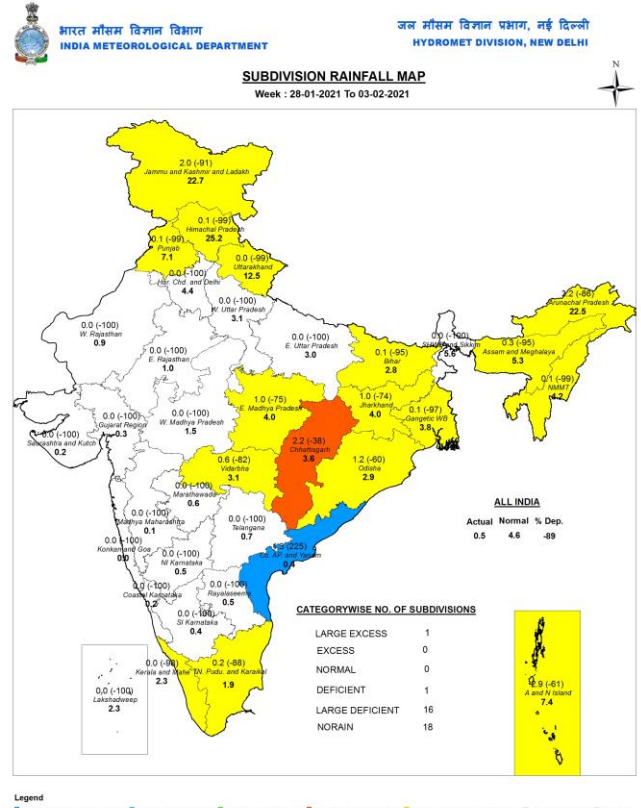
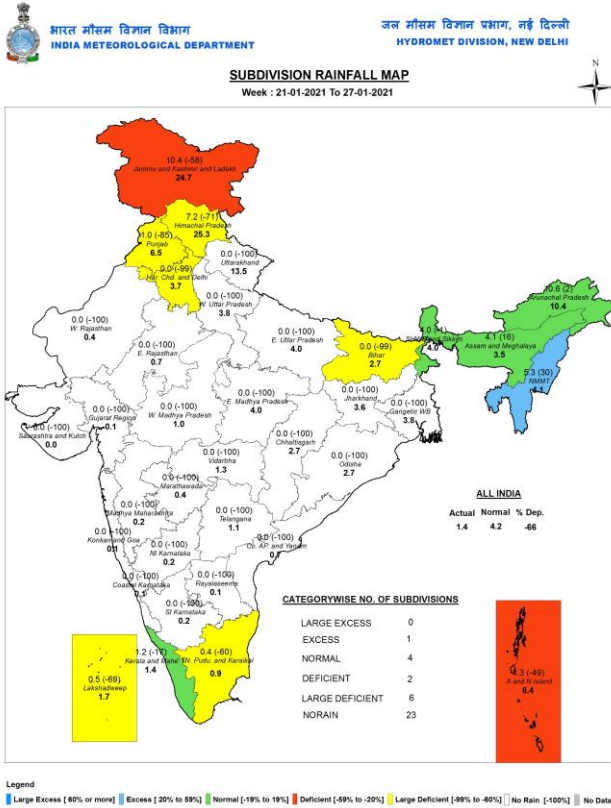
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (21st Jan. to 3rd Feb., 2021)



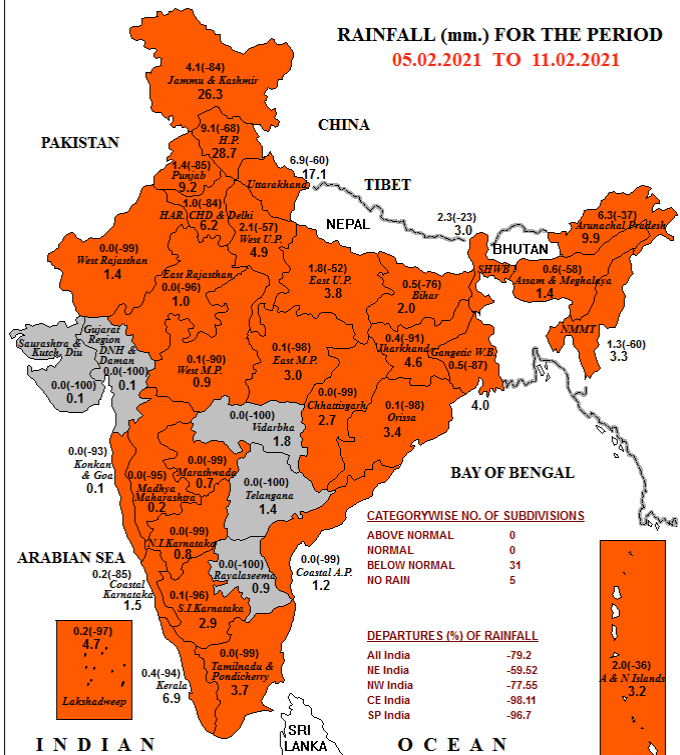
- Normal or above normal rainfall occurred in either of the two weeks in Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 03 Feb.) (5th to 18th Feb., 2021)

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Rainfall Forecast Map - Normal RF Based Categories

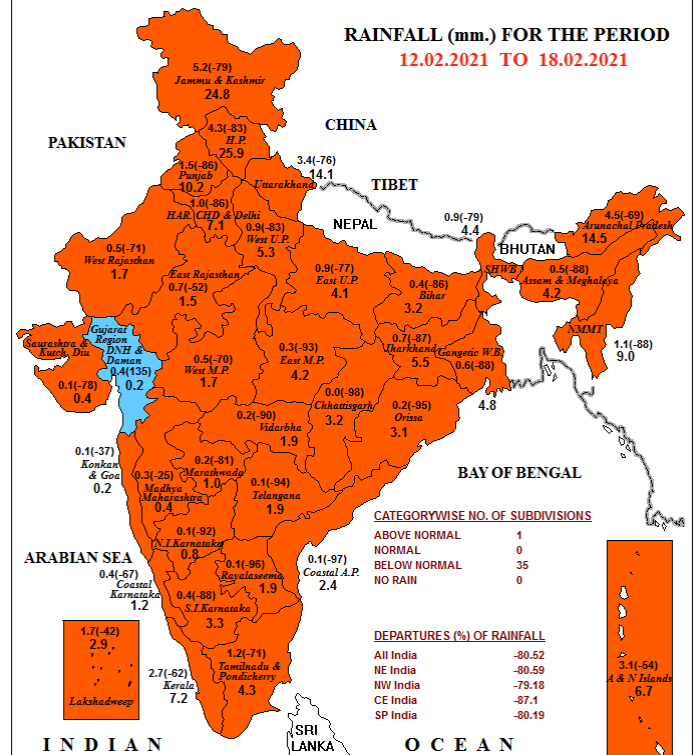


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) □ NO DATA

NOTES:
 (a) Rainfall figures are based on MME Forecast data.
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

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Rainfall Forecast Map - Normal RF Based Categories

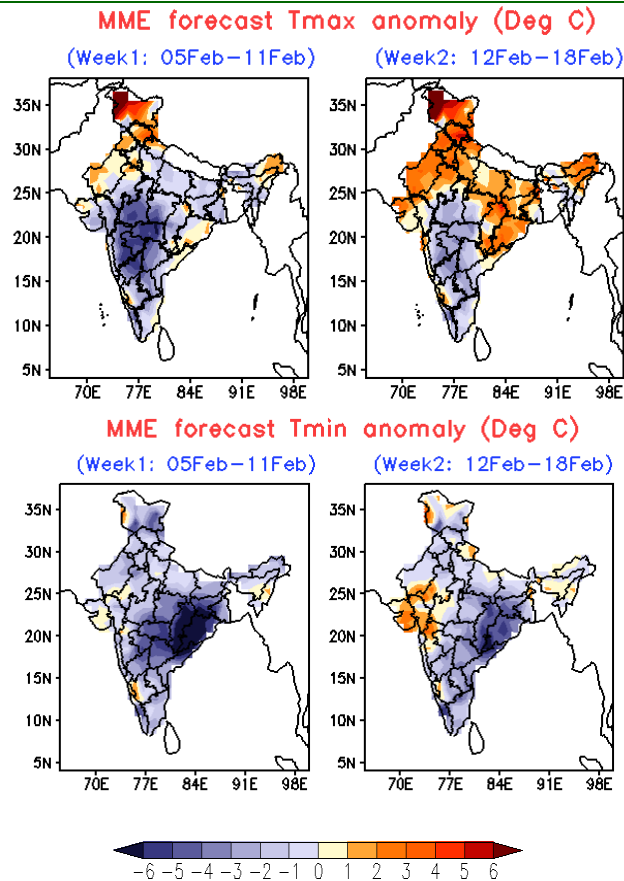


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- **Week-1 (05.02.2021 to 11.02.2021) and Week-2 (12.02.2021 to 18.02.2021):** Western Disturbance associated light rainfall is likely over extreme north (Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Himachal Pradesh) India during week-1, however, it will be below normal in Week-1 and week-2 over the region.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 03 Feb.)
(5th to 18th Feb., 2021)**



Maximum Temperature (Tmax)

- **Week-1 (05.02.2021 to 11.02.2021):** Below normal Tmax likely over the west-central parts, Indo-Gangetic region and parts of southern India in week-1. It will be slightly above normal over parts of North West India and North East India.
- **Week-2 (12.02.2021 to 18.02.2021):** Above normal Tmax likely over north-western, eastern and North Eastern belts of India in week-2.

Minimum Temperature (Tmin)

- **Week-1 (05.02.2021 to 11.02.2021):** Below normal Tmin likely over most parts of India in week 1 with large negative anomaly over Odisha and adjoining region.
- **Week-2 (12.02.2021 to 18.02.2021):** During Week 2 also, below normal Tmin likely over most parts of India with slight positive anomaly over western parts, North Eastern parts and extreme northern India.

Strategic Agricultural Planning based on rainfall during next two weeks till 18 February 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 105.5 mm (988% large excess) during 01 January 2021 - 04 February 2021. The extended range weather forecast for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of shoot borer attack in Lady's finger (bhindi). It is advised to spray 5% Neem Seed Kernel Extract or any *Bacillus thuringiensis* formulations along with jaggery.
- Under prevailing weather conditions, there is a chance of nematode attack in banana. It is advised to apply Carbosulfan 6G @ 20 g per pit at the time of planting.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 138.5 mm (724% large excess) during 01 January 2021 - 04 February 2021. The extended range weather forecast for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) is below normal for week-1 and week-2.

- Present weather condition is favorable for blast, smut & leaf folder incidence in paddy. To prevent, it is advised to spray Neem Seed Kernel Extract (NSKE) 5% or Neem oil 3% twice at 10 days intervals from initial disease appearance or spray Carbendazim @ 1g/litre or Wettable Sulphur @ 2.5 g/litre.
- Present weather condition is favorable for powdery mildew incidence in pulses. It is advised to spray Neem Seed Kernel Extract (NSKE) 5% or Neem oil 3% twice at 10 days intervals from initial disease appearance or Spray Carbendazim 1g/litre or Wettable Sulphur 2.5 g/litre.

Maharashtra

Rainfall received over Madhya Maharashtra is 18.5 mm (991% large excess), Marathwada is 3.0 mm (-33% deficit), Vidharbha is 0.8 mm (-92% large deficit) and Konkan region 5.6 mm (1029% large excess) during 01 January 2021 - 04 February 2021. The extended range weather forecast for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) over Madhya Maharashtra, Marathwada and Konkan is below normal and Vidharbha is no rain for week-1 and below normal over Madhya Maharashtra, Marathwada, Vidharbha and Konkan for week-2.

Marathwada

- For the management of pod borer in chickpea crop, it is advised to spray 5% NSKE or Quinalphos 25% EC @ 20 ml or Emamectin Benzoate 5% @ 4.5 g per 10 litres of water.
- If sucking pests in vegetable crops are noticed, it is advised to spray Pyriproxyfen 5% + Fenprothrin 15% @ 10 ml or Dimethoate 30% @ 13 ml per 10 litres of water.

Vidarbha

- Under prevailing dry weather condition, it is advised for need based protective irrigation in vegetable crops.

Madhya Maharashtra

- Suru sugarcane may be planted between 15 December to 15 February.

Konkan

- Due to the chances of decrease in humidity, there is a possibility of pre-mature fruit drops in mango. To prevent fruit drops, apply 150 to 200 litres of water per tree after fruit setting at 15 days intervals for 3 to 4 times. It is also advised to use straw mulch to reduce evaporation losses.
- Under the prevailing weather conditions, there is a possibility for incidence of leaf miner in cucurbitaceous crop. If incidence is noticed, spray 4% NSKE or Azadirachtin 10000 ppm @ 20 ml or Profenophos 50% EC @ 20 ml or Lambda cyhalothrin 5% EC @ 6 ml per 10 litres of water.

Hisar

Amount of rainfall received over Hisar is 22.6 mm (45% excess) during 01 January 2021 - 04 February 2021. The extended range rainfall forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to keep vigil on insect/pests in sugarcane crop and also go for need-based irrigation.
- Under prevailing cold conditions, it is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

Karnataka

Rainfall received during 01 January 2021 - 04 February 2021 over South Interior Karnataka is 26.6 mm (1007% large excess) and North Interior Karnataka is 8.1 mm (152% large excess). The extended range weather forecast for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and week-2.

South Interior Karnataka

- To protect pulse seeds from storage pests, it is advised to apply oils of castor/ linseed/ honge/ neem @ 3-5 ml per kg of seeds.
- To prevent birds from direct sunshine, it is advised to locate the poultry in such a way that long axis is in east-west direction.

Uttar Pradesh

Rainfall received during 01 January 2021 - 04 February 2021 over East Uttar Pradesh 0.3 mm (-98% large deficit) and West Uttar Pradesh is 13.1 mm (-4% deficit). The extended range weather forecast for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

Western Uttar Pradesh

- Due to chances of dry weather, farmers are advised to irrigate wheat crops.
- Due to cloudy weather conditions, aphid attack may occur in mustard crops. If observed, spray Chlorpyrifos 20% EC @ 1.0 litre/ha or Monocrotophos 36 % SL @ 500 ml/ha with 500-600 litres of water.

Jammu

Amount of rainfall received over Jammu is 95.7 mm (-8% deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Under prevailing weather conditions, monitoring is advised for wilt and blight attack in *rabi* pulses. If observed, apply Bavistin/Carbendazim @ 3g/litre of water.
- Due to favourable weather conditions, there is a chance of *alternaria* blight in mustard crop. If observed, spray Mancozeb @ 0.25%.

West Bengal

Amount of rainfall received over West Bengal is 0.1 mm (-99% large deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over West Bengal is below normal for week-1 and week-2.

- Under prevailing weather, late blight may appear in potato crop. It is advised to apply Mancozeb @ 4.0 g per litre of water.
- Transplanting of boro rice in the main field is advised.

Odisha

Amount of rainfall received over Odisha is 1.2 mm (-92% large deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Under prevailing weather, incidence of tikka disease may occur in groundnut. To manage, spray of Chlorothalonil 75% WP @ 400g/acre or Mancozeb 75% WP @ 600 g/acre or Hexaconazole 5% EC @ 300 ml/acre.
- For the management of whiteflies in tomato and brinjal crop, spray Neem-based pesticide

(Azadirachtin) 1500 ppm @ 600 ml/acre by mixing in 200 litres of water.

Assam

Amount of rainfall received over Assam is 8.8 mm (-54% deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Under prevailing weather, land may be prepared for cultivation of okra crop. Recommended varieties are Pusa Sawani, Arka Anamika and Parvati Kranti.
- For the management of red ant and soil insects in potato crop, apply Thimet 10G @ 2-3 kg per bigha in the soil during earthing up.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 42.9 mm (-57% deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Due to prevailing cold weather condition, it is advised to cover the young horticultural plants with grass to avoid damage from severe cold.
- Farmers are advised to add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature.
- Under prevailing weather, nursery preparation for chilies, tomato and brinjal crops in poly house is advised.

Gujarat

Amount of rainfall received over Gujarat is 2.5 mm (125% large excess) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Gujarat is no rainfall for week-1 and above normal for week-2.

- Prevailing weather is congenial for blight disease incidence in potato crop. To control, it is advised to spray Mancozeb 0.2% @ 30 g + 25 ml of concentrated desi soap solution in 10 litres of water.
- For the management of thrips in garlic, it is advised to spray Phosphamidon 3.0 ml or Dimethoate 10 ml or Methay-O-Demeton 10 ml in 10 litres of water at 10-12 days interval.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 22.8 mm (500% large excess) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11

February 2021 and 12 - 18 February 2021) on rainfall over Andhra Pradesh is no rainfall for week-1 and below normal for week-2.

- Current weather is congenial for leaf folder and stem borer incidence in rice in Srikakulam, Kadapa, Chittoor, Nellore, Krishna, West Godavari, Prakasam, Ananthapuramu and Kurnool districts. To control, spray Acephate @ 1.5g/litre or Chlorantraniliprole @ 0.4 ml/litre of water is advised.
- Present weather is also favorable for hopper damage in mango. To control, spray Dimethoate @ 2ml or Chlorpyrifos @ 2.5ml/litre of water.

Uttarakhand

Amount of rainfall received over Uttarakhand is 28.0 mm (-41% deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Due to the chances of light rainfall, it is advised to postpone the irrigation and use of chemicals/fertilizers in the crops.
- Under prevailing weather, it is advised to prepare the fields for summer vegetables like tomato, capsicum and bhindi etc., in lower hills areas.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 2.2 mm (-82% large deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Chhattisgarh is below normal for week-1 and week-2.

- Due to cloudy weather, there is a chance of aphid attack in mustard crop. It is advised to spray Imidacloprid 17.8 SL @ 250 ml per ha for 2 to 3 times at an interval of 10-15 days.
- Under prevailing cloudy weather, there may be aphid infestation in vegetables, fruit and shoot borer in brinjal. Hence, farmers are advised to keep a watch over the crops and adopt integrated pest management practices like light trap, pheromone trap, bird perch etc. for initial control.

Jharkhand

Amount of rainfall received over Jharkhand is 1.0 mm (-93% large deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Jharkhand is below normal for week-1 and week-2.

- Intercultural operation is advised to conserve the soil moisture in mustard field.
- Farmers may prepare pits and go for sowing of summer vegetable crops like sponge gourd,

bottle gourd, pumpkin, water melon, musk melon etc.

- To protect the field crops and vegetable from the adverse effect of low temperature, it is advised to maintain the soil moisture in the field and irrigate them at a regular interval.

Bihar

Amount of rainfall received over Bihar is 0.2 mm (-99% large deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Bihar is below normal for week-1 and week-2.

- To protect the mango and litchi from the infestation of powdery mildew disease, spraying of sulphur-based fungicide @1.0 ml/litre of water on the foliage of the trees is advised.
- Regular monitoring is advised for attack of cut worm in late sown potato crop. If infestation is observed, spray Chlorpyrifos 20 EC @ 2.5-3 ml per litres of water.

Punjab

Amount of rainfall received over Punjab is 12.6 mm (-46% deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Punjab is below normal for week-1 and week-2.

- Prevailing weather is favourable for the spread and development of white rust in oilseed crops. To protect, it is advised to spray Ridomil Gold @ 250 g/ 100 litres of water per acre.
- Prevailing weather condition is ideal time for planting of deciduous fruit plants such as pear, grapes, fig and phalsa.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 12.6 mm (-46% deficit) during 01 January 2021 - 04 February 2021. The extended range weather forecast provided for next two weeks (05 - 11 February 2021 and 12 - 18 February 2021) on rainfall over Madhya Pradesh is below normal for week-1 and week-2.

- Under prevailing weather condition, light irrigation is advised in cabbage, chilli, brinjal, tomato and cauliflower crops.

Disclaimer:

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