



National Agromet Advisory Service Bulletin
Based on
Extended Range Weather Forecast (ERFS)

Validity: (14th February to 27th February 2020)

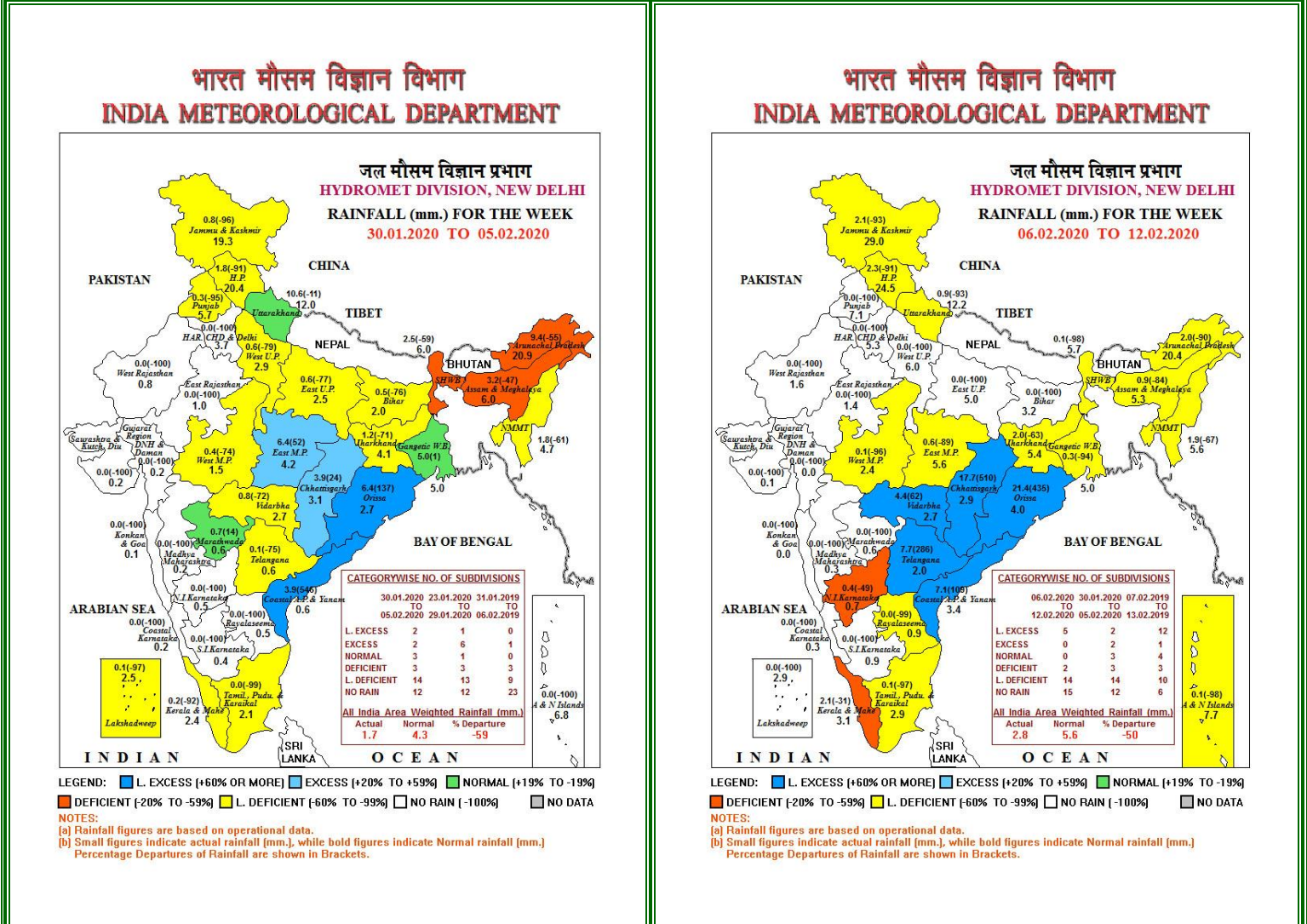
Date of issue: 14th February 2020

Issued by
Indian Council of Agricultural Research (ICAR)
All India Coordinated Research Project on Agro meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.
&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

(30th January to 12th February, 2020)



- Normal or above normal rainfall occurred in both the weeks in Chhattisgarh, Odisha and Coastal Andhra Pradesh.
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, East Madhya Pradesh, Gangetic West Bengal, Marathwada, Vidarbha and Telangana.
- Below normal rainfall/no rain occurred over rest of the country.

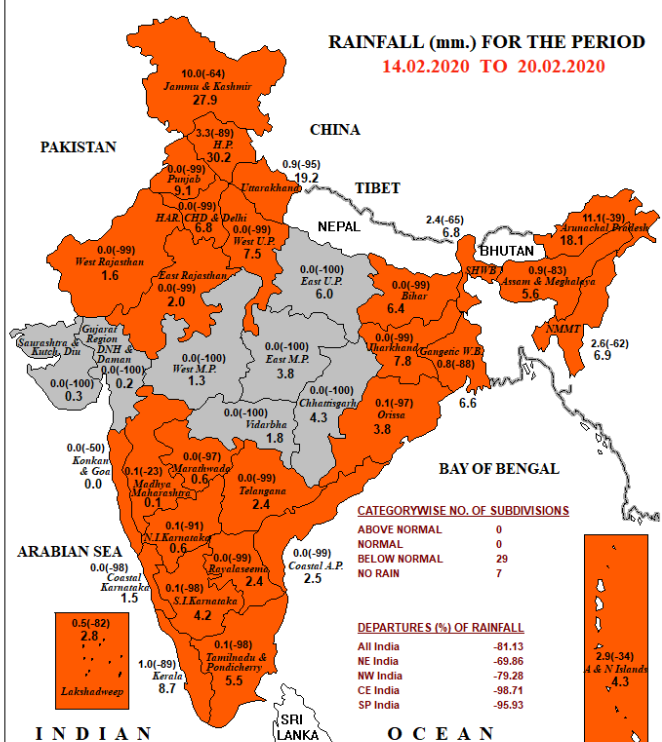
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 12 February)

(14th to 27th Feb. 2020)

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Rainfall Forecast Map - Normal RF Based Categories

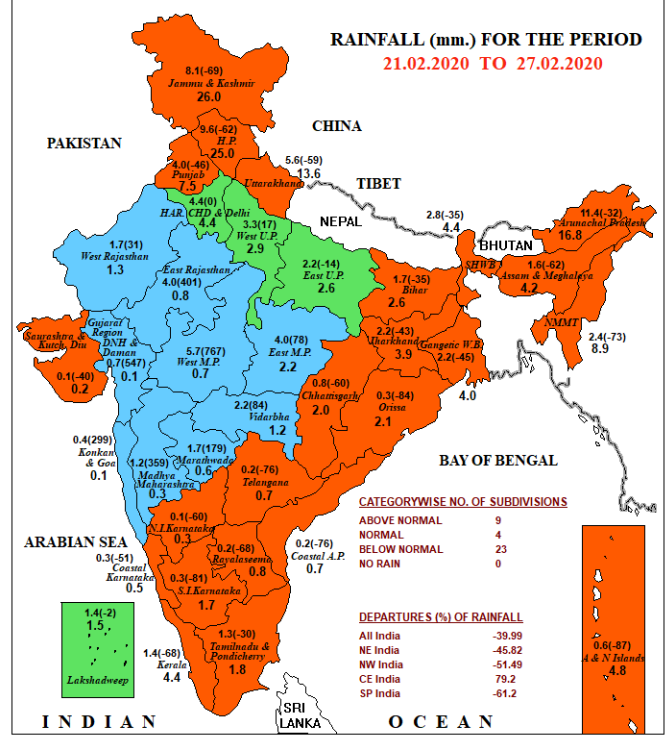


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN [-100%] NO DATA

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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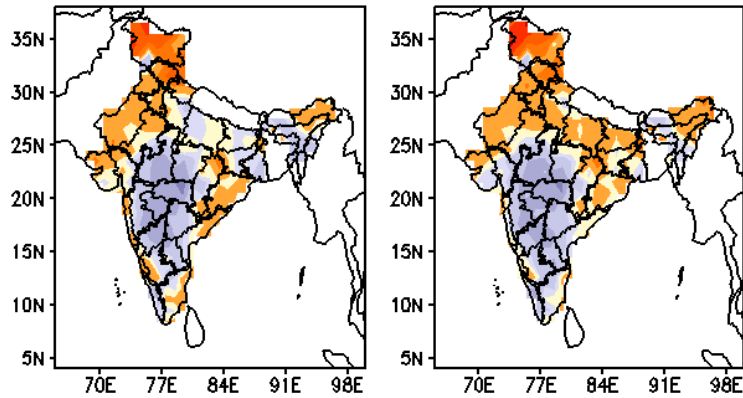
- **Week 1 (14.02.2020 to 20.02.2020) and Week 2 (21.02.2020 to 27.02.2020):** Mostly normal rainfall during week 1 and week 2 with no significant anomalies.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 12 February)
(14th to 27th Feb. 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 14Feb–20Feb)

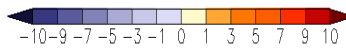
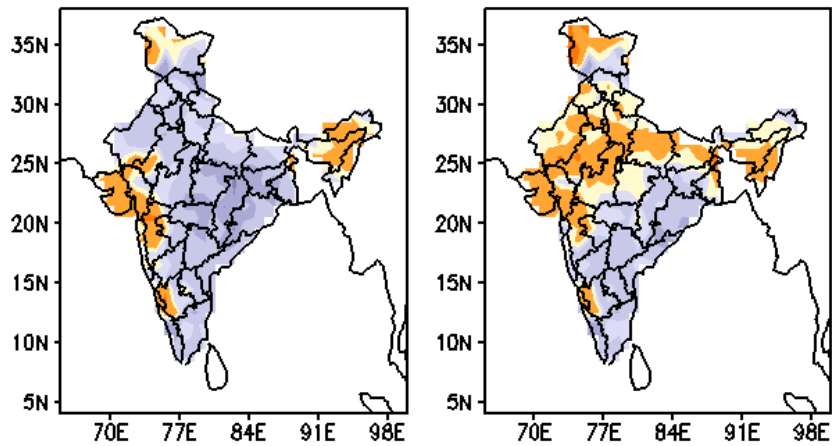
(Week2: 21Feb–27Feb)



MME forecast Tmin anomaly (Deg C)

(Week1: 14Feb–20Feb)

(Week2: 21Feb–27Feb)



Ma Maximum Temperature (Tmax)

- **Week 1 (14.02.2020 to 20.02.2020) and Week 2 (21.02.2020 to 27.02.2020):** Tmax anomaly is becoming positive over northwest and north India from week 1 onwards. Week 2 onward the Tmax anomaly is becoming positive over more parts of north and north east India.

Mi Minimum Temperature (Tmin)

- **Week 1 (14.02.2020 to 20.02.2020) and Week 2 (21.02.2020 to 27.02.2020):** Tmin anomaly is mostly negative over most parts of India except some parts of south peninsula in week 1. During week 2, the Tmin anomaly becomes positive over parts of northern and northwest India.

Strategic Agricultural Planning based on rainfall during next two weeks till 27th February 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 633.2 mm (25% excess) during the period of 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) is below normal for week-1 and week-2.

- There is a chance of infestation of pseudostem weevil in banana. Spray 2.5 ml of Chlorpyrifos or 2 ml of Quinalphos per one litre of water in leaf axils.
- There is a chance of appearance of rice bug in paddy. To control, spray 2 ml Malathion per one litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 462.0 mm (-1% deficit) during the period of 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for die back in chilli. To control, three sprayings with Wettable Sulphur or Copper Oxy Chloride 0.25% or Zineb 0.15% is advised.
- For protecting banana from high wind speed, It is advised to mount the soil around the base of the tree and give support by using Casuarinas poles.
- To arrest excessive vegetative growth in gram, nipping followed by spray of NAA @30 ppm is advised.

Maharashtra

Rainfall received over Madhya Maharashtra is 228.6 mm (117% large excess), over Marathwada is 260.3 mm (147% large excess), Vidharbha is 91.6 mm (-4% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) over Marathwada, Konkan, Madhya Maharashtra are below normal and no rainfall over Vidharbha for week-1 and above normal over Marathwada, Konkan, Vidharbha and Madhya Maharashtra for week-2.

Vidharbha

- Under prevailing weather condition, cultivation of summer vegetables like okra, cluster bean, cowpea, cucumber, gourd is advised.
- Under assured irrigation facility, it is advised for sowing of summer sesame up to first fortnight of February with recommended varieties viz. AKT-101 / PKV.

Madhya Maharashtra

- Spray of 1% KNO₃ is advised during flowering stage of chickpea crop.

- Planting of Suru sugarcane is advised from 15 December to 15 February. Apply 25 kg N, 60 kg P and 60 kg K at the time of planting.

Konkan

- Weather is congenial for the incidence of pod borer in lablab. To control, spray Dimethoate 30% EC @ 12 ml per 10 litre of water.
- There is possibility of incidence of rugose spiraling white fly in coconut. If incidence is noticed, spray 30 ml Neem oil 0.5% @30 ml per 10 litre of water.

Marathwada

- For management of gummy stem blight in cucurbits, spray of Chlorothalonil 75 % WP @ 25 g per 10 litre of water is advised.
- It is advised to avoid further extended growth in cotton after multiple picking. Remaining plant destroy properly as early as possible.

Rajasthan

Rainfall received during 01 Oct. 2019 - 13 Feb. 2020 over East Rajasthan is 40.4 mm (25% excess). The extended range weather forecast for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) over East Rajasthan is below normal for week-1 and above normal for week-2.

- It is advised to start nursery preparation for chili, tomato and brinjal in poly house. Prepare seedling of early cucurbitaceous crops in small polythene bags in poly houses.
- The present weather condition is favorable for incidence of powdery mildew in mustard. Spray of Carbendazim 12% + Mancozeb 62% @ 2g /litre of water is advised.
- The present weather is favorable for powdery mildew and leaf blight in opium poppy. Foliar spray of Propiconazole 0.2 ml/litre of water or Ridomil MZ 72% (Mentalaxyl 8% + Mancozeb 64 %) with 0.2 ml/litre at 15 days interval

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 250.5 mm (12% excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Nursery preparation is advised for chili, tomato and brinjal crops in poly houses.
- It is advised to cover horticulture saplings with grass to avoid frost injury.

Hisar

Amount of rainfall received over Hisar is 51.4 mm (21% excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on

rainfall over Hisar is below normal for week-1 and above normal for week-2.

- It is advised to maintain good amount of water in pond to save fishes from low temperature.
- Farmers are advised to keep vigilance on hairy caterpillar and mustard sawfly in mustard crop. Apply need based irrigation and intercultural operations to conserve the soil moisture.
- It is advised to protect the animals from variable weather conditions and provide clean and dry bedding. Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.

Gujarat

Amount of rainfall received over Gujarat is 83.8 mm (171% large excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Gujarat is no rainfall for week-1 and above normal for week-2.

- Farmers are advised to install pheromone traps @ 3-4 traps per acre for monitoring of fruit borer population in tomato. In heavy incidence, spray of Chlorantraniliprole 18.5 SC 3 ml 0 litre water is advised.
- For control of mites in chilli, foliar spray of Neem oil @ 40 ml/10 litre of water is advised. If infestation is severe, apply Fenazaquin 10% EC 10 ml/10 litre of water or Diafenthiuron 50% WP 10 gm/10 litre of water or Propergite 57% EC 10 ml/10 litre of water is advised.

Karnataka

Rainfall received during 01 Oct. 2019 - 13 Feb. 2020 over South Interior Karnataka is 307.8 mm (48% excess) and North Interior Karnataka is 245.8 mm (73% large excess). The extended range weather forecast for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) over South Interior Karnataka and North Interior Karnataka are below normal for week-1 and week-2.

South Interior Karnataka

- Due to continuous dry spell, there is chance of termite attack in horticulture, forest tree and shrubs. To control termite, application of Aldrin termiticides is advised.
- To protect the pulse grains from storage pests, application of oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains is advised.
- It is advised to prepare silage from the harvested maize and other pulse crops to overcome shortage of green fodder.

Assam

Amount of rainfall received over Assam is 223.4 mm (normal rainfall) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Assam is below normal for week-1 and week-2.

- It is advised to prepare land for growing ridge and sponge gourd. Recommended varieties viz.

AAUJ-1, AAUJ-2, AAUJ-3 etc. for ridge gourd and Pusa Chikni or other local varieties for sponge gourd cultivation.

- Farmers are advised to go for irrigation in the onion crop at 7 days interval. Farmers are also advised to spray Ridomil @ 2.5g/litre at an interval of 10 days against of downy mildew disease.

Jammu

Amount of rainfall received over Jammu is 401.1 mm (45% excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- The weather condition is congenial for aphids in late sown mustard crop. If aphid is noticed, spray of Imidacloprid @ 0.3 ml / litre of water or Dimethoate 30 EC @ 1ml/litre of water.
- It is advised to rogue out the disease affected plants such as virus affected plants of tomato and black rot of cauliflower and cabbage.

Odisha

Amount of rainfall received over Odisha is 230.2 mm (53% excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Odisha is below normal for week-1 and week-2.

- Due to rise in temperature, there is a chance of leaf eating caterpillar and leaf minor in summer sunflower. Spray of 400 ml Endosulphan/acre is advised.
- The current temperature favors the infestation of *heliathis*, American leaf minor and mites in marigold. It is advised to spray 600 ml Dicofol per acre.

Uttar Pradesh

Rainfall received during 01 Oct. 2019 - 13 Feb. 2020 over East Uttar Pradesh is 72.7 mm (8% excess) and West Uttar Pradesh is 86.2 mm (60% large excess). The extended range weather forecast for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) over East Uttar Pradesh is no rainfall and over West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

- Farmers are advised to harvest early sown potato crop. Spray of Copper oxichloride 3.0 kg/ha with 700-800 litre of water is advised against late blight and aphid in potato crop.
- Under prevailing weather conditions, there is a possibility for attack of fruit borer in brinjal. Hence, farmers are advised to take suitable plant protection measures.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 157.9 mm (69% large excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Chhattisgarh is no rainfall for week-1 and below normal for week-2.

- Prevailing cloudy weather and slight increase in temperature favours the incidence of *Heliothis* in

gram. Hence, farmers are advised to adopt pest management practices like light trap, pheromone trap, bird perch. if infection is severe, spray Profenophos 50% E.C.1 litre/ha.

- Prevailing temperature is suitable for sowing and germination of summer vegetables like pumpkin, bitter gourd, bottle gourd, okra etc.

Punjab

Amount of rainfall received over Punjab is 108.3 mm (82% large excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Punjab is above normal for week-1 and below normal for week-2.

- Prevailing weather is favourable for spread and development of white rust in oilseed crops. Protect the crop by spraying Ridomil Gold @ 250g in 100 litre of water per acre.
- It is advised to check physiological fruit drop in ber. Spray of Naphthlene Acetic Acid (NAA) @ 15g per 500 litre of water per acre is advised.

Jharkhand

Amount of rainfall received over Jharkhand is 173.1 mm (55% excess) during 01 Oct. 2019 - 13 Feb. 2020. The extended range weather forecast provided for next two weeks (14 - 20 Feb. and 21 - 27 Feb. 2020) on rainfall over Jharkhand is below normal for week-1 and week-2.

- Early to medium duration varieties of potato matures within 80-120 days. Farmers are advised to stop irrigation and remove the upper leaves/parts (Dehaulming) of the crop, before 7 – 10 days of digging.
- It is advise to check the attack of pumpkin beetle in cucurbitaceous plant. Hence, wet the soil near the root zone of the plant with the insecticide Chlorpyrifos 4 ml/liter of water and on plant @ 2 ml/liter of water.

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