



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 11 - 24 February 2022

Date of issue: 11 February 2022

Issued by

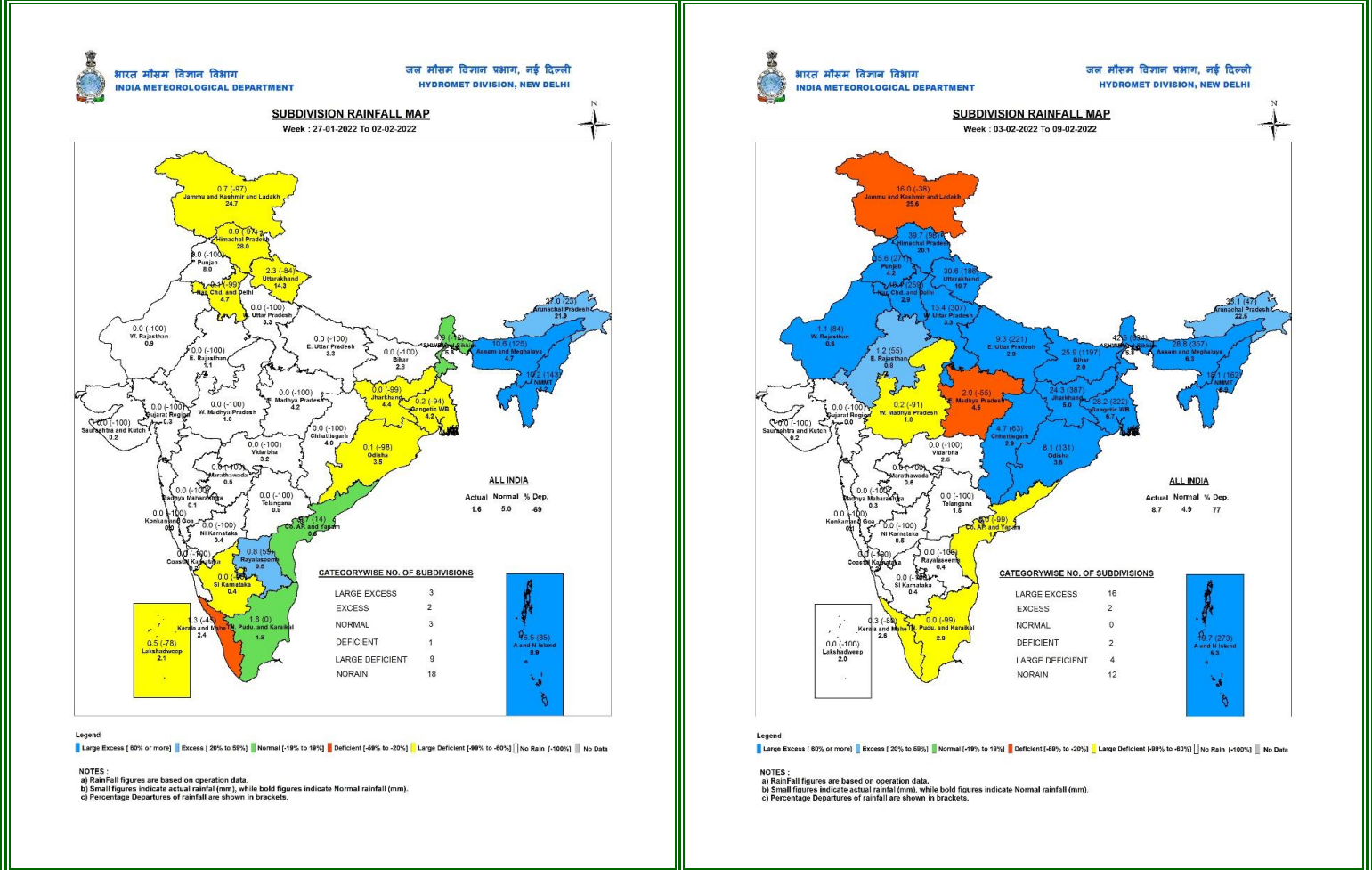
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (27th Jan. to 09th Feb., 2022)



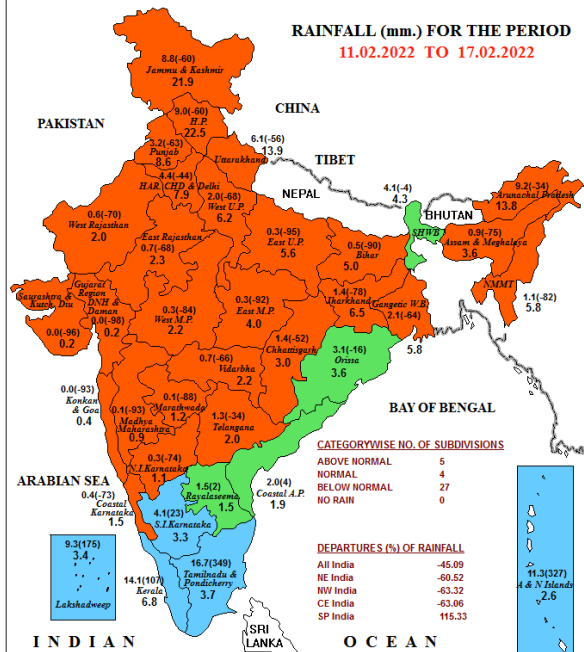
- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT) and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, Rajasthan, Bihar, Jharkhand, Odisha, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam. Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- 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 – 09 Feb.) (11th to 24th Feb., 2022)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

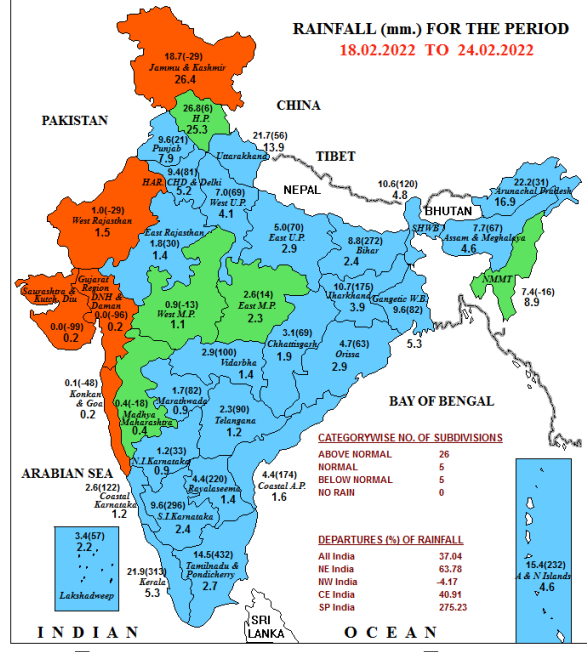


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

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.

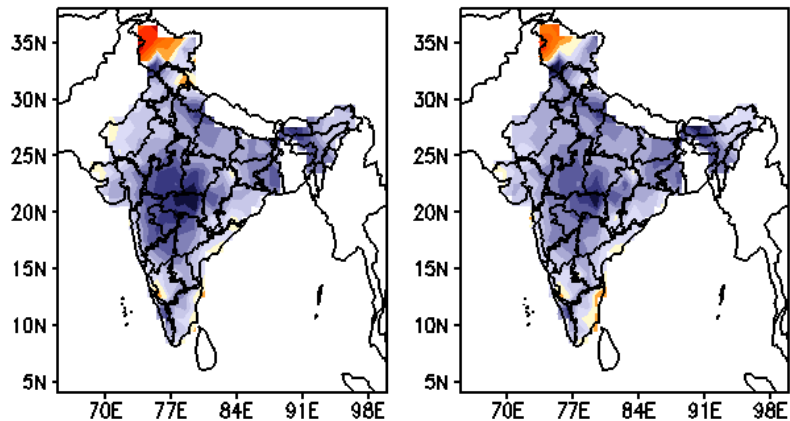
- **Week 1 (11.02.2022 to 17.02.2022):** The south peninsula (Tamil Nadu and Kerala) will be under the influence of easterly wind and expected to get rainfall.
- **Week 2 (18.02.2022 to 24.02.2022):** Western Disturbance will have an impact over north and northeast India, as a result rainfall is expected over the region. The South peninsula will also be slightly active.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 09 Feb.)
(11th to 24th Feb., 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 11Feb–17Feb)

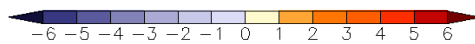
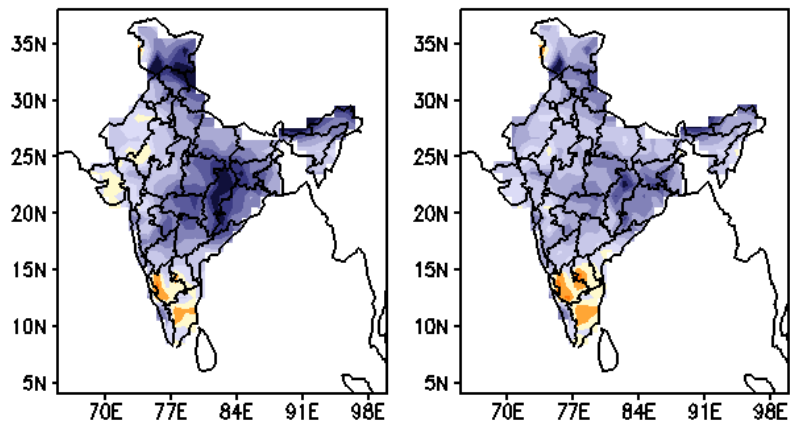
(Week2: 18Feb–24Feb)



MME forecast Tmin anomaly (Deg C)

(Week1: 11Feb–17Feb)

(Week2: 18Feb–24Feb)



Maximum Temperature (Tmax)

- **Week 1 (11.02.2022 to 17.02.2022) and Week 2 (18.02.2022 to 24.02.2022):** Mostly below normal Tmax likely over India except some parts of extreme north India and southeast coastal regions of India.

Minimum Temperature (Tmin)

- **Week 1 (11.02.2022 to 17.02.2022):** More parts of India will have negative Tmin anomalies with a large negative anomaly (-4 to -5 deg. C) is expected over east central parts of India covering Odisha, Chhattisgarh adjoining region in week 1.
- **Week 2 (18.02.2022 to 24.02.2022):** Similar Tmin anomalies like week 1 however with likely weaker anomalies compared to week 1.

Strategic Agricultural Planning based on rainfall during next two weeks till 24 February 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 4 mm (-72% large deficit) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) is above normal for week-1 and week-2.

- Due to increase in atmospheric temperature, there is a chance of sucking pest infestation in vegetables. To control, it is advised to spray neem oil emulsion 2%, once in a week or spray *Lecanicillium lecanii* @ 20 g per litre of water under clear weather conditions.
- Cover the young pepper plants with dry arecanut leaves, coconut leaves or twigs of trees until summer months are over.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 35 mm (78% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) is above normal for week-1 and week-2.

- Prevailing weather conditions are congenial for shoot fly incidence in sorghum. Farmers are advised to spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha under clear weather conditions.
- Prevailing weather conditions are congenial for shoot weevil incidence in cotton. Farmers are advised for basal application of FYM @ 25 t/ha or 250 kg/ha of neem cake.

Maharashtra

Rainfall received over Madhya Maharashtra is 0.7 mm (-62% deficit); Marathwada is 0.3 mm (-94% large deficit); Vidarbha is 27 mm (104% large excess) and Konkan region is 3 mm (321% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and; over Marathwada and Vidarbha is above normal, Madhya Maharashtra is normal and Konkan is below normal for week-2.

Vidarbha

- Because of prevailing dry weather condition, it is advised to apply irrigation in late sown chick pea crop.
- Under assured irrigation facility, it is advised to complete the sowing of summer groundnut (var. TAG - 24, TAG -73) by this week.

Madhya Maharashtra

- For the management of leaf curl in chilli, spraying of Dimethoate @15 to 20 ml per litre of

water is advised.

- Under prevailing weather condition, it is advised to give protective irrigation at flag leaf stage and flowering stage in late sown sorghum crop for getting higher yield.

Hisar

Amount of rainfall received over Hisar is 81 mm (332% large excess) during 01 January - 10 February 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Hisar is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to apply need-based irrigation during week-1 and chemical spray and also keep vigil for yellow rust in wheat.
- Under prevailing variable weather condition, it is advised to maintain good amount of water in pond to save fishes from low temperature.

Karnataka

Rainfall received during 01 January - 10 February 2022 over South Interior Karnataka is 0.5 mm (-83% large deficit) and North Interior Karnataka is 0.4 mm (-89% large deficit). The extended range weather forecast (rainfall) for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over South Interior Karnataka is above normal and below normal over North Interior Karnataka for week-1 and above normal over South Interior Karnataka and North Interior Karnataka for week-2.

South Interior Karnataka

- Due to continuous dry spell in January month, the termite attack is common in horticulture and forestry tree and shrubs. Hence, to control it is advised to apply Aldrin termiticide.
- To protect the pulse grains from storage pests it is advised to apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.

North Interior Karnataka

- Under prevailing weather condition, harvesting/threshing and drying of matured chickpea and other crops is advised and also plucking of cotton and chili may be taken up.

Uttar Pradesh

Rainfall received during 01 January - 10 February 2022 over East Uttar Pradesh is 38 mm (121% large excess) and West Uttar Pradesh is 77 mm (330% large excess). The extended range weather forecast (rainfall) for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under prevailing weather condition, sowing of *Zaid* maize is advised. Recommended composite varieties are *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*.
- For the management of aphids in mustard crop, it is advised to spray Imidacloprid 17.8% SL @ 300 ml/ha with 500 to 600 litres.

Eastern Uttar Pradesh

- In present weather condition, constant monitoring of the wheat crop against rust disease is advised. If symptoms appear, spraying of Dithane M-45 @ 2.5 g/litre of water is recommended.
- For the management of semi looper in chickpea/pea/lentil, it is advised to spray *Bacillus thuringiensis*, or Azadirachtin 0.03 % EC 2.5 to 5 litres in 500 to 600 litres of water.

Jammu

Amount of rainfall received over Jammu is 185 mm (46% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Jammu is below normal for week-1 and week-2.

- Due to sufficient moisture in soil, farmers are advised to prepare nursery bed for tomato /brinjal/ chillie crops.
- Under prevailing weather condition, there is a chance of dieback, gummosis, anthracnose and canker disease in citrus. For management, it is advised to spray Copper oxychloride @ 3g/litre.

Assam

Amount of rainfall received over Assam is 59 mm (138% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Assam is below normal for week-1 and above normal for week-2.

- Due to favourable weather condition, late blight disease may appear in the potato crops. For management, two spraying with Cymoxanil 8% + Mancozeb 64% @ 2 g/litre of water at an interval of 10-12 days.
- For the management of aphid attack in rapeseed & mustard crop, it is advised to spray Dimethoate 30 EC or Chlorpyrifos 20 EC 0.5 litre/ha with a spray volume of 500-700 litres of water/ha.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 49 mm (220% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Chhattisgarh is below normal for week-1 and above normal for week-2.

- Looking into the present weather conditions, there is a chance of aphid infestation in vegetable crops. Therefore, farmers are advised for continuous monitoring and spray neem-based pesticides when initial outbreak is seen.
- Prevailing temperature is suitable for growing of summer vegetables like pumpkin, bitter gourd, bottle gourd, okra etc. Hence, the sowing of these vegetables should be completed at the earliest.

Gujarat

Amount of rainfall received over Gujarat is 1 mm (-11% deficit) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Gujarat is below normal for week-1 and week-2.

- For the control of citrus canker, it is advised to spray Copper oxychloride 40g or Streptocycline 1.5 g in 10 litres of water under clear sky.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 213 mm (81% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Prevailing weather condition is congenial for yellow rust in wheat. For management, it is advised to spray Tilt (Propiconazole 25 EC) @ 1 ml/litre of water or Bayleton 0.1% and repeat the spray at 15 days interval.
- Farmers are advised to cover the small horticulture plants with grass to frost injury.

West Bengal

Rainfall received during 01 January - 10 February 2022 over Gangetic West Bengal is 56 mm (163% large excess) and Sub-Himalayan West Bengal is 67 mm (166% large excess). The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Gangetic West Bengal below normal and Sub-Himalayan West Bengal is normal for week-1 and; above normal over Sub-Himalayan West Bengal and Gangetic West Bengal for week-2.

- For preventive measure of late blight in potato, spraying of Mancozeb or Chlorothalonil or Copper Oxychloride is useful.

Punjab

Amount of rainfall received over Punjab is 120 mm (332% large excess) during 01 January - 10

February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Punjab is below normal for week-1 and; above normal for week-2.

- Under prevailing weather condition, farmers are advised to prepare fields for the sowing/transplanting of spring/summer season crops like cucurbits, okra, tomato, chilli and brinjal etc.
- For the management of army worm, it is advised to spray Coragen 18.5 SC @ 40 ml/acre in 80-100 litres of water per acre in the evening.

Uttarakhand

Amount of rainfall received over Uttarakhand is 142 mm (148% large excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Uttarakhand is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, it is advised to prepare nursery beds in polyhouses for early seedling raising of tomato, brinjal, chilli, capsicum etc.
- In view of low temperatures, provide lukewarm water and warm feed to all domestic animals. Protect cattle from cold weather, cover the sides of animal shed with gunny bags. Floor should be covered with thick dry litter.

Andhra Pradesh

Amount of rainfall received over Coastal Andhra Pradesh is 30 mm (140% large excess) over Rayalaseema is 10 mm (134% excess) during 01 January - 10 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 February 2022 and 18 - 24 February 2022) over Coastal Andhra Pradesh and Rayalaseema is normal for week-1 and above normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- Prevailing weather conditions are favourable for *helicoverpa* infestation in chickpea grown in Nellore, Guntur, Prakasam, Ananthapuramu and Kurnool districts. To control, spraying of Quinalphos @ 2.0 ml or Thiodicarb @ 1.0 g or Novaluron @ 1 ml/litre of water is recommended.
- In Ananthapuramu, Kurnool and Kadapa districts, present weather conditions are favourable for Spodoptera incidence in groundnut. To control, spraying of Thiodicarb @ 1 g or Novaluron@ 1 ml or Flubendiamide @ 0.2 ml/litre of water is recommended.

Disclaimer:

The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information presented in this bulletin.