



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 04 - 17 February 2022

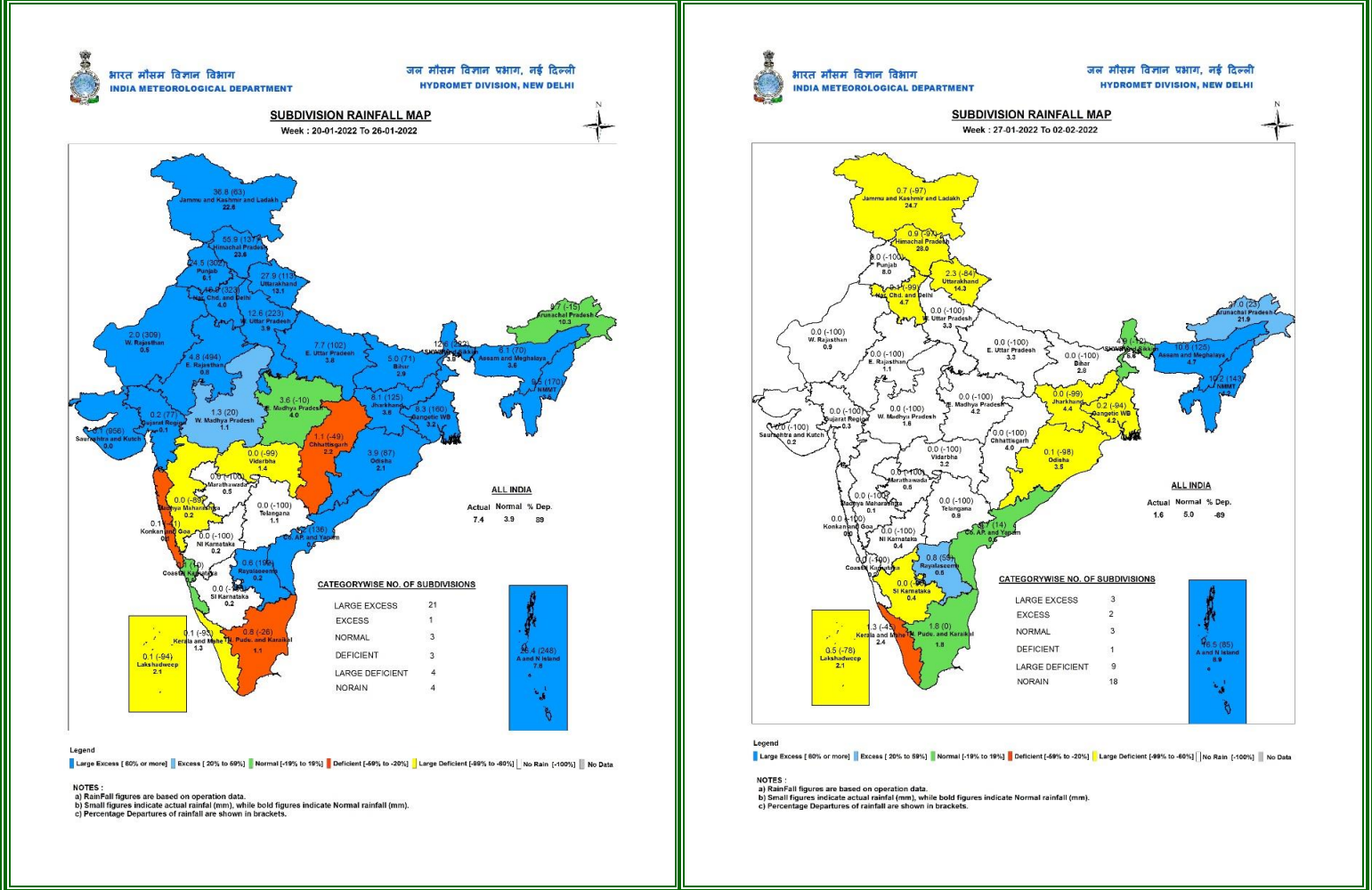
Date of issue: 04 February 2022

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 (20th Jan. to 02nd Feb., 2022)



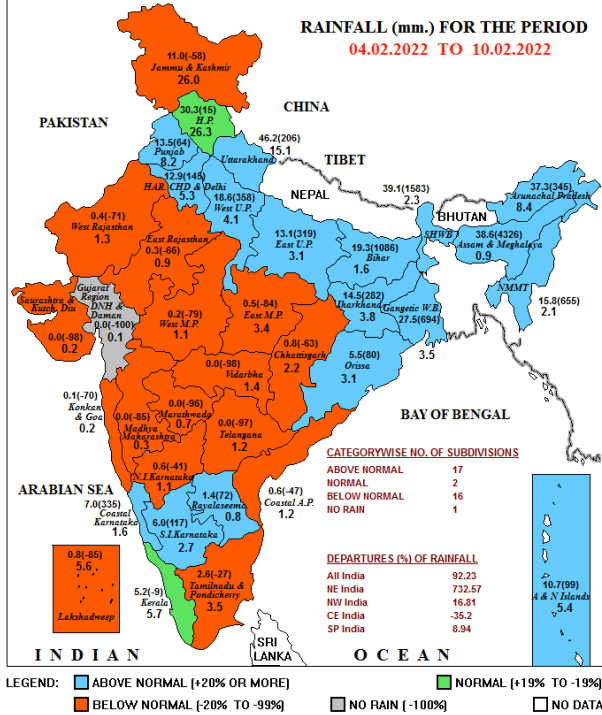
- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Rayalaseema, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, Rajasthan, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Gujarat, Madhya Pradesh, Coastal Karnataka 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 – 02 Feb.) (4th to 17th Feb., 2022)

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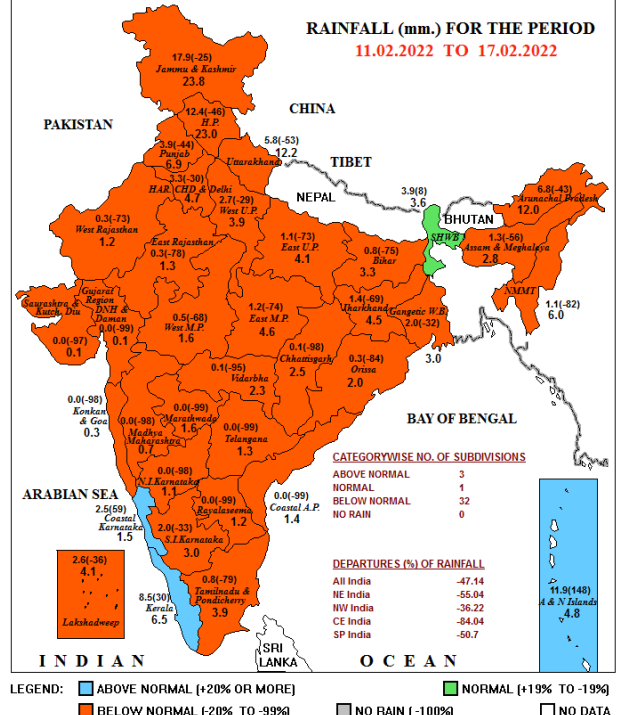
Rainfall Forecast Map - Normal RF Based Categories



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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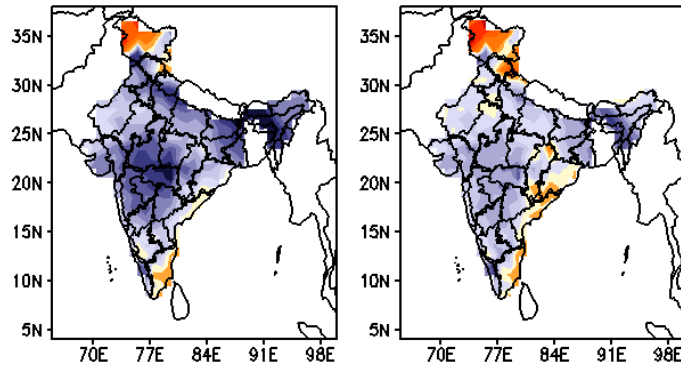
- **Week 1 (04.02.2022 to 10.02.2022):** Western Disturbance associated rainfall/snowfall is likely over some parts of northern India (Uttarakhand, Himachal Pradesh, Haryana, Punjab, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal and northeast states in week 1.
- **Week 2 (11.02.2022 to 17.02.2022):** Mainly normal rainfall likely in week 2 with no significant anomaly.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 02 Feb.)
(4th to 17th Feb., 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 04Feb–10Feb)

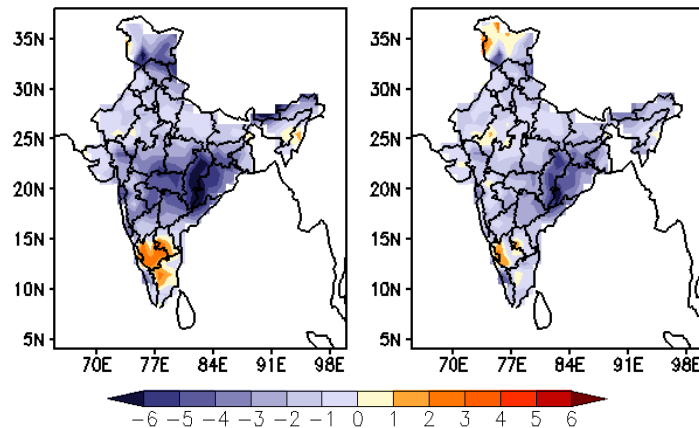
(Week2: 11Feb–17Feb)



MME forecast Tmin anomaly (Deg C)

(Week1: 04Feb–10Feb)

(Week2: 11Feb–17Feb)



Maximum Temperature (Tmax)

- **Week 1 (04.02.2022 to 10.02.2022):** Mostly below normal Tmax likely over the entire India except some parts of extreme north India and southeast coastal regions of India. A large negative anomaly of Tmax is expected over central India in week 1.
- **Week 2 (11.02.2022 to 17.02.2022):** Below normal Tmax is also expected over major parts of India, however with weaker negative anomaly compared to week 1 except the regions over northern India, parts of northwest India and eastern coastal states of India.

Minimum Temperature (Tmin)

- **Week 1 (04.02.2022 to 10.02.2022):** 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 (11.02.2022 to 17.02.2022):** Similar Tmin anomalies like week 1 expected, however with weaker anomalies compared to week 1.

Strategic Agricultural Planning based on rainfall during next two weeks till 17 February 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 3 mm (-69% large deficit) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) is normal for week-1 and above normal for week-2.

- Due to prevailing dry weather condition, there is a chance of mite attack in arecanut. To manage, it is advised to apply wettable sulphur @ 2 g per one 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 (107% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) is below normal for week-1 and week-2.

- Current weather condition is favorable for fall army worm incidence in maize. To prevent, it is advised to spray Azadirachtin 1 EC @ 2 ml/litre or Thiodicarb 75 WP @ 2 g/litre or Emamectin benzoate 5 SG @ 0.4 g/litre or Spinetoram 12 SP @ 0.5 ml /litre.
- 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 (-58% deficit); Marathwada is 0.3 mm (-93% large deficit); Vidarbha is 27 mm (148% large excess) and Konkan region is 3 mm (405% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and week-2.

Vidarbha

- Because of prevailing cold and dry weather condition, it is advised to apply light irrigation in *rabi* crops during evening hours to protect them from cold injury.
- During the cold weather, there is a chance of red mites infestation in orange fruit. For management, it is advised to spray Abamectin 1.9 EC @ 3.6 ml or Propargite 57% EC @ 10 ml or Diafenthuron 50 WP @ 20 g in 10 litres of water alternately at an interval of 20 days.

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, sowing of summer groundnut and sunflower is advised.

Konkan

- Due to decrease in minimum temperature, it is advised to provide irrigation to nursery of new fruit crop plantation and vegetable crops during evening hours.
- Under prevailing weather condition, there is a possibility of tea mosquito bug and thrips on inflorescence and nut of cashewnut. If incidence is noticed, spray Profenophos 50% EC @ 10 ml at inflorescence stage and Lambda cyhalothrin 5% EC @6 ml per 10 litres of water at nut stage.

Parbhani

- Due to decrease in minimum temperature, flower dropping may observed in chickpea crop. To manage, it is advised to spray Urea @ 2% @ 200 g per 10 litres of water.
- For the management of powdery mildew disease in grapes, it is advised to spray sulphur 40 SC formulation @ 3 ml per litre of water.

Hisar

Amount of rainfall received over Hisar is 78 mm (400% large excess) during 01 January - 04 February 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Hisar is above normal for week-1 and below normal for week-2.

- To protect the vegetable crops from frost and low temperature, it is advised to apply need-based irrigation in evening hours.
- 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 - 04 February 2022 over South Interior Karnataka is 0.5 mm (-79% large deficit) and North Interior Karnataka is 0.4 mm (-87% large deficit). The extended range weather forecast (rainfall) for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over South Interior Karnataka is above normal and below normal over North Interior Karnataka for week-1 and below normal over South Interior Karnataka and North Interior Karnataka for week-2.

South Interior Karnataka

- Due to sudden drop in minimum temperature affects the floral induction in Mango. To manage, it is advised to spray Paclobutrazol as plant growth retardant which restrict the vegetative growth.
- 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.

Uttar Pradesh

Rainfall received during 01 January - 04 February 2022 over East Uttar Pradesh is 33 mm (140% large excess) and West Uttar Pradesh is 69 mm (403% large excess). The extended range weather forecast (rainfall) for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and below normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to cloudy weather and high temperature, there is a chance of aphids in mustard crop. If seen, it is advised to spray Imidacloprid 17.8% SL @ 300 ml/ha with 500 to 600 litres.
- To protect the chickpea crop from frost and fog, it is advised to spray 2% Potash solution.

Eastern Uttar Pradesh

- Under prevailing weather condition, there is a possibility of late blight disease in potato crop. Therefore, it is advised to keep monitoring and spray Mancozeb @ 2.5 g/litre of water.
- To protect the animals from the cold, it is advised to tie them in the animal house. Keep the windows and doors of the stockyard closed at night.

Jammu

Amount of rainfall received over Jammu is 182 mm (76% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Jammu is below normal for week-1 and week-2.

- Monitoring is advised for wilt and blight attack in rabi pulses, if observed, it is advised to apply Bavistin/Carbendazim @ 3g/litre of water.
- Prevailing high relative humidity and low day temperature is congenial for alternaria blight in mustard crop. If observed, it is advised to spray Mancozeb @ 0.25%.

Assam

Amount of rainfall received over Assam is 32 mm (64% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Assam is above normal for week-1 and below normal for week-2.

- Due to congenial weather condition, attack of rice borer may be observed in the *boro* rice crop. To manage, it is advised to spray Flubendiamide 39.35SC @ 1.23 ml per 10 litres of water.
- 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 48 mm (274% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Chhattisgarh is below normal for week-1 and week-2.

- Looking into the present weather conditions, there is a chance of aphid attack in vegetable crops. Therefore, farmers are advised for continuous monitoring and spray neem-based pesticides when initial outbreak is seen.
- For the management of aphid insect in mustard crop, it is advised to spray Imidacloprid 17.8 SL @ 250 ml per hectare, 2 to 3 times at an interval of 10-15 days as required.

Gujarat

Amount of rainfall received over Gujarat is 1 mm (-11% deficit) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Gujarat is no rainfall for week-1 and below normal for week-2.

- For the management of powdery mildew disease in mustard crop, it is advised to spray wettable sulphur 80% WP @ 25 g or Hexaconazole 5 EC 5 ml in 10 litres of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 201 mm (101% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Himachal Pradesh is normal for week-1 and below 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 avoid cold paralysis / frost injury.

West Bengal

Rainfall received during 01 January - 04 February 2022 over Gangetic West Bengal is 34 mm (117% large excess) and Sub-Himalayan West Bengal is 35 mm (80% large excess). The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Gangetic West Bengal and Sub-Himalayan West Bengal is above normal for week-1 and; normal over Sub-Himalayan West Bengal and below normal over Gangetic West Bengal for week-2.

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

Punjab

Amount of rainfall received over Punjab is 120 mm (413% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Punjab is above normal for week-1 and; below normal for week-2.

- Regular monitoring of yellow rust in wheat crop is advised. If symptoms appears, then spray Custodia/Caviet/Opera/Tilt/Stilt/Bumper/Shine/ @ 0.1 % or Nativo @ 0.06 % during clear weather condition.
- Mulching is advised in vegetable crops i.e., cauliflower, spinach, fenugreek, coriander, radish, turnip, pea, tomato, brinjal, chilli and capsicum to reduce heat loss from the surface.

Jharkhand

Amount of rainfall received over Jharkhand is 47 mm (220% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Jharkhand is above normal for week-1 and below normal for week-2.

- Due to the forecast of rainfall in coming week, farmers may avoid spraying of any pesticide in different crops/vegetables and to utilize rain water, broadcast urea as per the requirement of the crops.
- Farmers having assured irrigation facility and wish to cultivate summer vegetables may proceed for sowing. Seeds of cucurbitaceous plant like sponge gourd, bottle gourd, pumpkin, water melon, musk melon etc. may be sown in pit.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 42 mm (128% large excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over East Madhya Pradesh is below normal for week-1 and week-2.

- Due to increase in day temperature, there may be chances of sucking pests and borers in vegetable crop. To control, farmers are advised to spray recommended insecticides.

Andhra Pradesh

Amount of rainfall received over Coastal Andhra Pradesh is 30 mm (200% large excess) over Rayalaseema is 10 mm (171% excess) during 01 January - 04 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 February 2022 and 11 - 17 February 2022) over Coastal Andhra Pradesh is below normal and above normal over Rayalaseema for week-1 and below normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- Prevailing weather conditions are favourable for *helicoverpa* incidence 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.
- The present weather conditions are favourable for incidence of thrips in chillies grown in Srikakulam, Chittoor, Nellore and Ananthapuram districts. To control, spraying of Profenofos @ 2ml/litre or Thiodicarb @1.5g/ litre of water is recommended.

Disclaimer:

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