



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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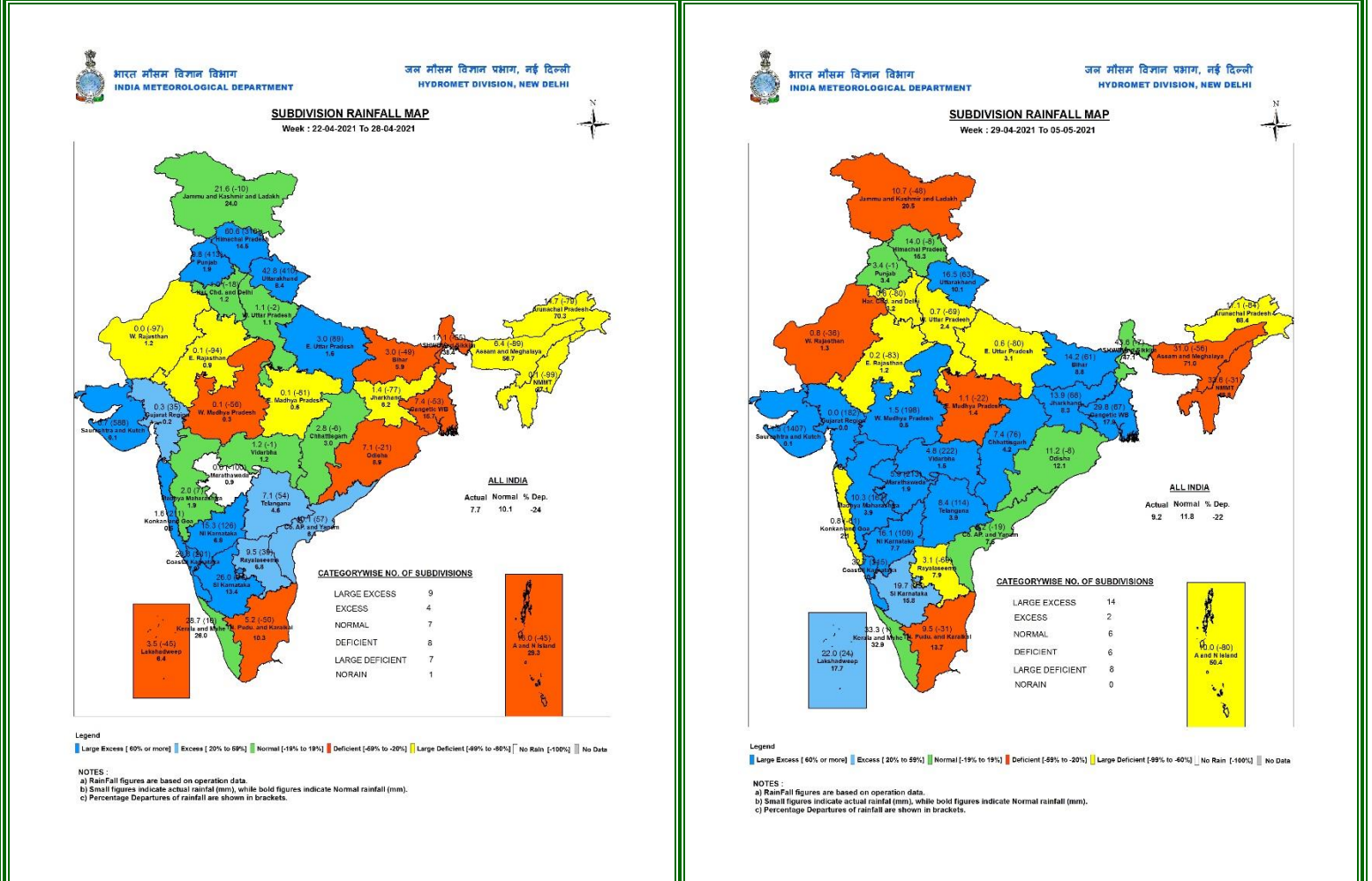
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (22nd April to 5th May, 2021)



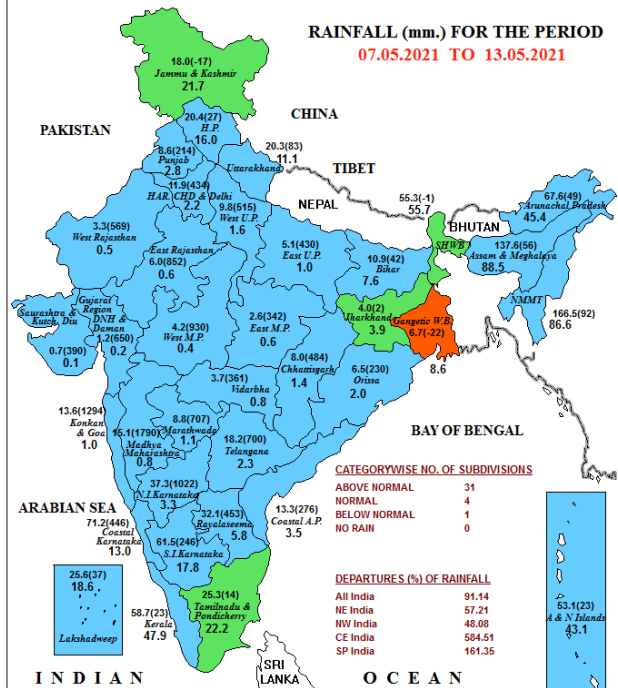
- Normal or above normal rainfall occurred in both the weeks in Himachal Pradesh, Uttarakhand, Punjab, Chhattisgarh, Gujarat, Madhya Maharashtra, Vidarbha, Karnataka, Telangana, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Uttar Pradesh, Haryana Chandigarh Delhi, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, West Madhya Pradesh, Konkan & Goa, Marathwada, Rayalaseema, and Lakshadweep.
- Below Normal rainfall/no rain occurred in either of the two weeks / both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecastmaps for the next 2 weeks (IC –5 May) (7th to 20th May, 2021)

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Rainfall Forecast Map - Normal RF Based Categories

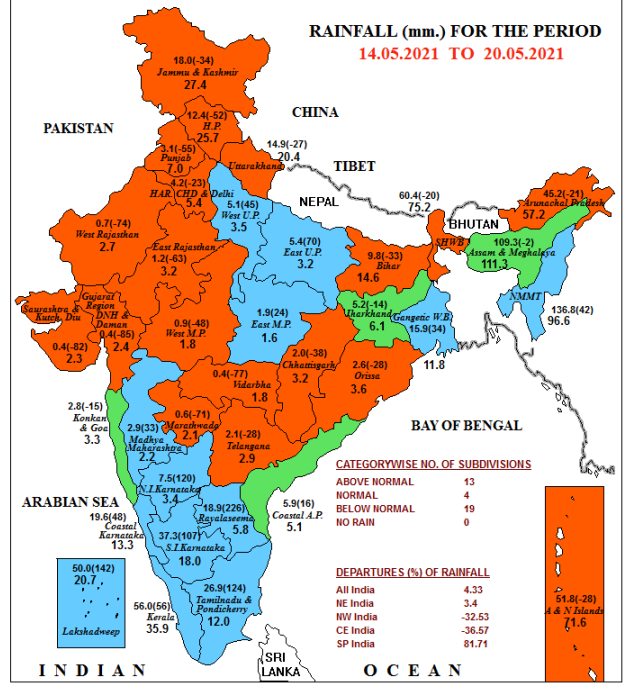


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ BELOW NORMAL (-20% TO -99%) ■ NORMAL (+19% TO -19%) ■ NO RAIN (-100%) ■ NO DATA

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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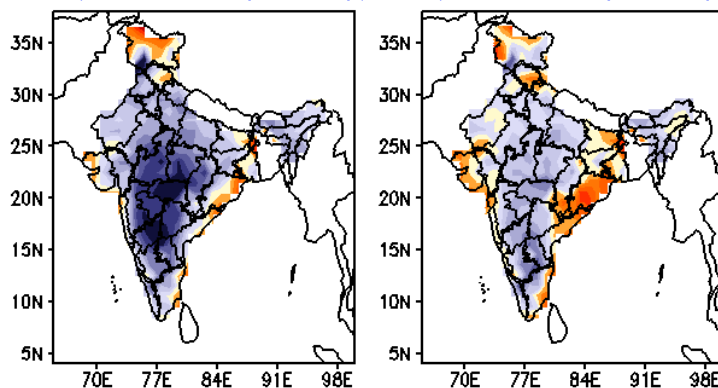
- **Week1 (07.05.2021 to 13.05.2021) and Week 2 (14.05.2021 to 20.05.2021):** South peninsular (Coastal Kerala, Kerala and Tamil Nadu) will get rainfall during week 1 and week 2. Rainfall is likely to continue over Northeast India during the period. Isolated rainfall associated with Western Disturbance likely over north and northwest India mainly during week 1.
- Thus, there is no indication of delay onset over Kerala and it could be normal to slight early.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C)forecast
for next 2 weeks(IC – 5 May)
(7th to 20th May, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 07May–13May)

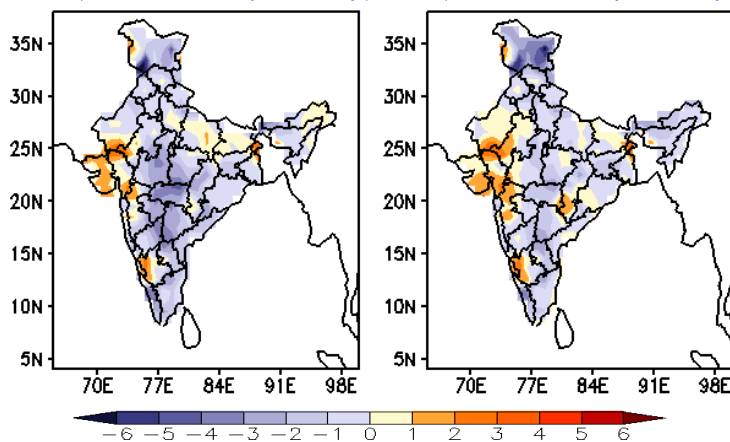
(Week2: 14May–20May)



MME forecast Tmin anomaly (Deg C)

(Week1: 07May–13May)

(Week2: 14May–20May)



Maximum Temperature (Tmax)

- **Week 1 (07.05.2021 to 13.05.2021) and Week 2 (14.05.2021 to 20.05.2021):**Tmax will be above normal over Extreme north India (Jammu & Kashmir and Ladakh (UTs)), eastern coastal states including state of Odisha, Gangetic West Bengal and parts of western coastal region in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (07.05.2021 to 13.05.2021) and Week 2 (14.05.2021 to 20.05.2021):**Warm anomalies over isolated regions of western India, parts of the south peninsula in week 1 and over the eastern belt of Odisha, Gangetic West Bengal, Jharkhand, Bihar, east Uttar Pradesh in week 1.
- (ii) Positive Tmin anomaly areas are slowly increasing over western parts of India in week 2 onwards.

Strategic Agricultural Planning based on rainfall during next two weeks till 20 May 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 216.3 mm (29% excess) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) is above normal for week-1 and week-2.

- Under prevailing hot and dry weather condition, mulching in banana basins is advised to reduce temperature and conserve moisture.
- For the management of sucking pests in vegetables crops, it is advised to spray Thiamethoxam 2 ml per 10 litres of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 53.7 mm (-27% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) is normal for week-1 and above normal for week-2.

- Prevailing hot and dry weather condition is favorable for fruit dropping in Acid Lime. Farmers are advised to provide frequent water supply and add a layer mulch under trees.
- Prevailing weather is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

Maharashtra

Rainfall received over Madhya Maharashtra is 26.9 mm (98% large excess), Marathwada is 18.0 mm (35% excess), and Vidarbha is 23.2 mm (25% excess) and Konkan region 4.5 mm (-10% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) over Konkan, Madhya Maharashtra, Marathawada and Vidharbha is above normal for week-1 and normal over Konkan and above normal over Madhya Maharashtra below normal over Vidharbha and Marathawada for week-2.

Marathwada

- Due to the chances of thunderstorm and rainfall, it is advised to harvest mature Mango fruits as early as possible.
- For management of stem borer in Sugarcane crop, it is advised to spray Chlorpyrifos 20% @ 25 ml or Chlorantraniliprole 18.5 % @ 4 ml per 10 litres of water during clear weather condition.

Vidharbha

- Under prevailing weather condition, farmers are advised for deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds.

Madhya Maharashtra

- To protect fruit crops from high temperature, it is advised to provide shades on fruit crops.
- Under prevailing high temperature, it is advised to protect milch animals by keeping them under the shed and provide green fodder and sufficient clean drinking water.

Konkan

- Due to the chances of very light rainfall, it is advised to harvest the matured early rice varieties during morning hours and immediately store threshed grains under protective shed.
- To reduce the heat stress in farm animals, it is advised to provide roughages by mixing with solution of 1% jaggery and 0.5% salt separately.

Hisar

Amount of rainfall received over Hisar is 9.3 mm (-59% deficit) during 01 March 2021 - 07 May 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) over Hisar is above normal for week-1 and below normal for week-2.

- Due to the chances of increase in day temperature, farmers are advised to apply light irrigation in planted vegetable crops and fruits plants as per requirement.
- 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 March 2021 - 07 May 2021 over South Interior Karnataka is 75.8 mm (11% excess) and North Interior Karnataka is 51.5 mm (37% excess). The extended range weather forecast (rainfall) for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

South Interior Karnataka

- For the management of incidence of leaf hopper it is advised to spray Azadirachtin (10,000 ppm) @ 7.0 ml/ litre of water.
- Under prevailing weather condition, it is advised to provide proper ventilation for free circulation of air in the animal sheds. Also, arrange to provide clean drinking water for the animals.

North Interior Karnataka

- Under prevailing weather condition, farmers are advised for summer ploughing and incorporate the crop residues in the soil.

- Vaccination of livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia is advised.

Uttar Pradesh

Rainfall received during 01 March 2021 - 07 May 2021 over East Uttar Pradesh 4.2 mm (-73% large deficit) and West Uttar Pradesh is 2.8 mm (-83% large deficit). The extended range weather forecast (rainfall) for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

Eastern Uttar Pradesh

- Under prevailing hot and dry weather, farmers are advised for irrigation in standing crop.
- Intercultural operation is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

Jammu

Amount of rainfall received over Jammu is 197.3 mm (-27% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Jammu is normal for week-1 and below normal for week-2.

- Due to chances of rainfall, farmers are advised to postpone the irrigation in vegetable crops.
- Under prevailing weather condition, sowing of summer fodder (maize+cowpea+charri) and bajra is advised.

West Bengal

Amount of rainfall received over West Bengal is 69.7 mm (-28% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over West Bengal is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, there is a chance of attack of fruit & shoot borer in brinjal crop. To manage, it is advised to spray Cartop hydrochloride 50% SP @ 1g/litre of water.
- To control the fruit drop in mango, it is advised to spray Borax @ 2g per litre of water or Planofix @ 2ml per 5 litre of water.

Odisha

Amount of rainfall received over Odisha is 44.2 mm (-35% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Odisha is above normal for week-1 and below normal for week-2.

- Prevailing high temperature and intermittent thunder shower is congenial for Brown Plant

Hopper and White Backed Plant Hopper infestation in paddy. To manage, it is advised to avoid excess use of nitrogenous fertilizer and spray Neem Based Pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre at the base of the plant.

- Under prevailing hot and dry weather condition, summer ploughing is advised in the field to kills the eggs, larvae and pupae of soil borne insects and pests.

Assam

Amount of rainfall received over Assam is 180.8 mm (-46% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Assam is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, there may be the incidence of blight observed in the green gram and black gram crops. To control, it is advised to apply Carbendazim 0.05% @ 300-500 g in 600-700 litres of water at an interval of 12-15 days.
- Prevailing weather condition is also congenial for fruit rot or Anthracnose disease in the chilli crop. To manage, farmers are advised to spray Glyodin or Maneb pesticide in the recommended dose.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 168.8 mm (-11% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, sowing of improved varieties of root vegetables like radish, turnip, carrot and spinach in low lying areas of the state is advised.
- Under the prevailing weather condition, there is a chance of thrips attack in onion. To control, spraying of Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) under clear sky conditions is advised.

Under prevailing increase in temperature, it is advised to make proper ventilation in poultry houses.

Gujarat

Amount of rainfall received over Gujarat is 0.3 mm (-84% large deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Gujarat is above normal for week-1 and below normal for week-2.

- To protect papaya plants against high temperature and high wind condition it is advised to cover papaya fruits using gunny bags and provide support to heavy fruiting plants.

- Under present weather hot and dry weather condition, it is advised to keep animals under shade and provide plenty of cool water mixed with minerals for drinking and also shower the animals with cold water two to three times in a day.

Uttarakhand

Amount of rainfall received over Uttarakhand is 88.8 mm (-10% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Uttarakhand is above normal for week-1 and below normal for week-2.

- It is advised to provide mechanical support to the fruit bearing trees and vegetable creepers to prevent from strong winds.
- Farmers are advised to maintain proper water drainage in all vegetable crops like onion, capsicum, tomatoes etc.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 10.3 mm (-10% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Soil and residual mulching is advised to avoid evaporation losses from the field, especially in vegetables and fruit orchard.
- Due to hot and dry weather condition, it is advised to sprinkle spray of water on the sheds of poultry and dairy houses to reduce temperature of that area and provide coolers and wet them on the doors of poultry houses to reduce heat inside the house.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 28.9 mm (7% excess) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Chhattisgarh is above normal for week-1 and below normal for week-2.

- Due to the possibility of light to moderate cloudiness and light showers farmers are advised for harvesting of matured summer paddy.
- For the management of red pumpkin beetle, it is advised to spray Imidachloprid @ 8 ml per litre.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 33.2 mm (-8% deficit) during 01 March 2021 - 07 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 May 2021 and 14 - 20 May 2021) on rainfall over Andhra Pradesh is above normal for week-1 and week-2.

- Present weather conditions are favourable for sucking pests in papaya grown in Srikakulam, Vizianagaram, and West Godavari districts. To control, spraying of Imidachloprid @ 0.3g/litre

of water is advised.

- For the management of fruit fly incidence in mango, it is advised to mix Malathion@ 2 ml and Methyl eugenol @2 ml /litre of water to make a bait solution and pour 250 ml in plastic dish and place at four different places per acre.

Disclaimer:

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