

**UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT**



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MYSURU - 570003**



Date: 12-07-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

| Parameter | 08.07.2024 | 09.07.2024 | 10.07.2024 | 11.07.2024 | 12.07.2024 |
|----------------------------------|------------|------------|------------|------------|------------|
| Rainfall (mm) | 5.9 | 1.2 | 0 | 0 | 0 |
| Max. Temp. (°C) | 30 | 29.4 | 29.4 | 32 | 42.5 |
| Min. Temp. (°C) | 21.4 | 20.4 | 20.3 | 21.7 | 0 |
| Sky condition (Octas) | 8 | 8 | 4 | 8 | 8 |
| Relative humidity (%) 0830 hours | 88 | 83 | 79 | 84 | 77 |
| Relative humidity (%) 1730 hours | - | 86 | 74 | 68 | - |
| Wind Speed (km/h) | 8 | 4 | 4 | 4 | 4 |
| Wind Direction | 180 | 320 | 230 | 320 | 320 |

Weather forecast for the next five days (From 13-07-2024 to 17-07-2024)

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|----------------------------------|------------|------------|------------|------------|------------|
| Rainfall (mm) | 3 | 4 | 5 | 5 | 5 |
| Max. temp (°C) | 32.8 | 29.6 | 30.2 | 26.6 | 27.4 |
| Min.Temp (°C) | 18.6 | 18.5 | 18.8 | 18.5 | 18.3 |
| Sky condition (Octas) | 8 | 8 | 7 | 8 | 8 |
| Relative humidity (%) 0830 hours | 84 | 82 | 84 | 87 | 87 |
| Relative humidity (%) 1730 hours | 50 | 59 | 59 | 70 | 74 |
| Wind Speed (kmph) | 20 | 22 | 24 | 23 | 24 |
| Wind Direction | 248 | 252 | 257 | 248 | 248 |

Forecast Summary

As forecast received from IMD, cloudy sky with **light rainfall** may be expected from 13.07.2024 to 17.07.2024 in Mandya district. The day temperature is expected to be 26.6-32.8°C & night temperature is expected 18.3-18.6°C. The relative humidity in the morning hours is expected to be 82-87% & afternoon relative humidity is expected to be in the range of 50-74% per cent. Wind speed expected to be 20-24 km/ hr.

| Recommendations to the farmers: | | | |
|---|---------------|---|------------------|
| Crop | Pest/Disease | Damage symptoms | Control measures |
| General Advisory | | | |
| <p>For pulses, treat the seeds with <i>Rhizobium</i> culture and fungicides to ensure healthy germination and to protect against soil-borne diseases.</p> <p>Rhizobium Inoculation: Mix <i>Rhizobium</i> culture with the seeds at the rate of 5-7 grams per kilogram of seed to enhance nitrogen fixation and improve growth.</p> <p>Fungicide Treatment: Treat seeds with Thiram or Carbendazim @ 2 grams per kilogram of seed to prevent fungal diseases.</p> <p>Crop Management:</p> <p>Paddy:</p> <p>Transplanting: Ensure proper spacing and replant any missing hills within 7-10 days of transplanting. Given the upcoming rainfall, complete this task early to avoid working in muddy conditions.</p> <p>Weed Control: Apply herbicides if the field is infested with weeds. However, avoid application just before or after rainfall. Hand weeding is preferable during this period.</p> <p>Maize:</p> <p>Sowing: Complete sowing operations before the onset of heavier rains expected on 13th July.</p> <p>Fertilization: Apply nitrogenous fertilizers in split doses to avoid leaching due to rain. Ensure the application is done when the soil moisture is adequate but not waterlogged.</p> <p>Sugarcane:</p> <p>Intercropping: Continue with intercropping operations to improve soil fertility. Ensure good drainage to prevent water logging.</p> <p>Weed Management: Hand weeding or use of herbicides can be effective. Avoid herbicide application during heavy rainfall days.</p> <p>Horticulture:</p> <p>Fruits (Mango, Banana):</p> <p>Pruning: Remove dead or diseased branches to prevent the spread of diseases.</p> <p>Support: Provide support to banana plants to prevent lodging due to wind and rain, especially on the day of heavier rainfall.</p> <p>Vegetables (Tomato, Brinjal, Chilli):</p> <p>Disease Management: Regularly monitor for fungal diseases and apply appropriate fungicides. Avoid spraying during rainy periods.</p> <p>Staking: Ensure proper staking of plants to prevent damage from rain and wind.</p> <p>Soil and Water Management:</p> <p>Drainage: Ensure proper drainage in fields to prevent waterlogging, especially with the expected heavier rains.</p> <p>Rainwater Harvesting: Collect and store rainwater for irrigation during dry spells. Utilize rainwater harvesting techniques to conserve water.</p> <p>Livestock Management:</p> <p>Shelter: Provide adequate shelter to protect livestock from rain. Ensure their living quarters are dry and well-ventilated.</p> <p>Feed: Store feed in dry conditions to prevent spoilage and contamination. Ensure clean and dry bedding for animals.</p> | | | |
| Paddy earhead bug | Milking stage | <p>These bugs suck the sap from milky earheads which become shrivelled or chaffy grains in an earhead.</p> <p>> During milky stage of the crop; spray Malathion 50 EC. at 2.0 ml./lit. of water .</p> <p style="text-align: right;">OR</p> | |

| | | |
|-------------------------------------|---------------------------------|---|
| | | > Dust 8 - 10 kg. Malathion 5 D./acre during morning hours. |
| Cowpea viral disease | Panicle initiation stage | Bleached leaves, scanty flowering <ul style="list-style-type: none"> • Uproot virus infested plants. • Spray 1.7 ml. Dimethoate 30 EC. in a lit. water |
| Maize Fall army worm | Vegatative stage | 5% damage- Application of 5% neem seed kernel extract (NSKE) or azadirachtin 1500ppm @ 5ml/litre (1 litre/acre)of water. 10% damage- Whorl application of any one of the recommended insecticides for FAW, viz.,Chlorantraniliprole 18.5 SC (80 ml/acre) @ 0.4 ml/litre or Spinetoram 11.7 %SC (100ml/acre) @ 0.5 ml/litre or Emamectin benzoate 5% SG (80g/acre) @ 0.4g/litre. |
| Cowpea Aphids | Pod filling stage | Several individuals suck the sap from tender shoots, flower buds, flowers, leaves and tender pods. Yellowing of leaves, shrivelled grains and sooty mold on leaves. To manage this pest spray Dimethoate – 30 EC. @ 1.7 ml./liter water spray. 200 lit. Spray mixture/acre. |
| Coconut | Rugose whitefly | <ul style="list-style-type: none"> ✓ Spraying starch solution (1%) to dislodge the heavy sooty mould deposition on the leaves of infested plants. ✓ Use of yellow sticky traps to trap the adult whiteflies ✓ In case of severe infestation, spray neem oil 0.5% |
| Black gram Aphid | Pod filling stage | Adults and nymphs suck the sap from tender shoots, leaves; flower buds, flowers and tender pods. Yellowing of leaves, shriveled grain and development of sooty mold. Spray 1.7 ml. Dimethoate 30 EC. in lit. water, when infestation noticed. 250 lit. spray solution/acre. |
| Cowpea | Pod borer | Caterpillar bore the pods and feed on seeds. Infested pods with hole. On tender pods spray Chlorpyriphos - 20 EC. @ 2 ml./lit. water. 300 lit. spray solution/acre. |
| Tomato Serpentine leaf miner | Fruiting | Larva mines the leaf epidermis, serpentine tunnels on leaves. Spray 0.3 ml. Imidachloprid 17.8 SL. or 2.0 ml. Triazophos 40 EC/lit. water. |
| Tomato Fruit borer | Fruiting | <ul style="list-style-type: none"> • Caterpillar bore the flower buds and fruits. Infested flower buds with hole and drops off, fruit with a hole, water enter through the hole leads to rotting. • Trap crop: For every 25 rows of tomato grow one row of marigold cultivar African tall. The marigold seedlings about 35-40 days old. If borer problems exceeds 10 per cent spray 4 per cent. NSKE or 100 LE, Ha. NPV. If infestation in severe form spray 1.0 g. Methomil 40 SP. in a lit. water |
| Coconut | Rhinoceros beetle | Remove the beetle from infected part and fill 2 % Quinolphos or 5 % Melathion in sand @ 1:1 ratio. |

Block level weather forecast (From 13-07-2024 to 17-07-2024)**Krishnarajpet**

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 4 | 6.1 | 5.4 | 14.2 | 3.1 |
| Max. temp (°C) | 29.7 | 25.7 | 27.1 | 23.8 | 25 |
| Min.Temp (°C) | 20.3 | 19.8 | 20 | 20 | 19.8 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 82 | 87 | 84 | 88 | 88 |
| Relative humidity (%) 1730 hours | 53 | 75 | 63 | 79 | 75 |
| Wind Speed (kmph) | 21 | 19 | 24 | 20 | 22 |
| Wind Direction | 248 | 249 | 252 | 248 | 248 |

Maddur

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 15.8 | 7.3 | 6.9 | 12.7 | 1.8 |
| Max. temp (°C) | 30.7 | 27.8 | 27.9 | 24.1 | 26.1 |
| Min.Temp (°C) | 20.8 | 20.9 | 20.8 | 21 | 20.8 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 84 | 88 | 85 | 88 | 86 |
| Relative humidity (%) 1730 hours | 52 | 64 | 61 | 81 | 70 |
| Wind Speed (kmph) | 18 | 18 | 20 | 18 | 21 |
| Wind Direction | 248 | 248 | 248 | 248 | 248 |

Malvalli

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 5.2 | 5.2 | 9.2 | 14.5 | 3 |
| Max. temp (°C) | 30.1 | 25.8 | 25.9 | 23.3 | 24.5 |
| Min.Temp (°C) | 20.6 | 20.2 | 20 | 20.4 | 20.2 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 81 | 88 | 86 | 88 | 86 |
| Relative humidity (%) 1730 hours | 46 | 64 | 63 | 77 | 71 |
| Wind Speed (kmph) | 21 | 19 | 20 | 20 | 24 |
| Wind Direction | 248 | 248 | 248 | 248 | 248 |

Mandya

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 16.8 | 8 | 6.5 | 12.9 | 1.8 |
| Max. temp (°C) | 29.8 | 26.1 | 27 | 24 | 25.1 |
| Min.Temp (°C) | 20.6 | 20.5 | 20.5 | 20.7 | 20.6 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 84 | 89 | 85 | 88 | 86 |
| Relative humidity (%) 1730 hours | 53 | 70 | 63 | 80 | 73 |
| Wind Speed (kmph) | 19 | 17 | 20 | 19 | 22 |
| Wind Direction | 248 | 248 | 248 | 248 | 248 |

Nagamangala

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 5.3 | 1 | 5.3 | 11.8 | 1.6 |
| Max. temp (°C) | 30.8 | 28 | 28.2 | 24.8 | 26.4 |
| Min.Temp (°C) | 20.3 | 20.4 | 20.3 | 20.3 | 20.5 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 82 | 82 | 81 | 86 | 84 |
| Relative humidity (%) 1730 hours | 50 | 65 | 60 | 79 | 70 |
| Wind Speed (kmph) | 21 | 21 | 25 | 21 | 25 |
| Wind Direction | 249 | 248 | 252 | 248 | 248 |

Pandavapura

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 12.5 | 9.4 | 6 | 13.9 | 2.5 |
| Max. temp (°C) | 29.5 | 25 | 26.6 | 23.7 | 24.8 |
| Min.Temp (°C) | 20.3 | 20 | 20.2 | 20.2 | 20.2 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 85 | 90 | 86 | 89 | 87 |
| Relative humidity (%) 1730 hours | 55 | 75 | 64 | 81 | 75 |
| Wind Speed (kmph) | 19 | 17 | 21 | 19 | 22 |
| Wind Direction | 248 | 248 | 248 | 248 | 248 |

Shrirangapattana

| Parameter | 13.07.2024 | 14.07.2024 | 15.07.2024 | 16.07.2024 | 17.07.2024 |
|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm) | 15.3 | 10.2 | 8.5 | 14.9 | 3 |

| | | | | | |
|---|------|------|------|------|------|
| Max. temp (°C) | 28.7 | 24 | 25.6 | 23.1 | 24.4 |
| Min.Temp (°C) | 20 | 19.6 | 19.6 | 19.8 | 19.7 |
| Sky condition (Octas) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%) 0830 hours | 85 | 90 | 87 | 90 | 88 |
| Relative humidity (%) 1730 hours | 56 | 76 | 67 | 81 | 76 |
| Wind Speed (kmph) | 19 | 17 | 20 | 20 | 23 |
| Wind Direction | 248 | 248 | 248 | 248 | 248 |

- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “**MAUSAM**” APP for location specific forecast & warning & “**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

For any information farmers can contact **Dr. C. Ramachandra**, Senior Farm Superintendent/ **Dr. Sumanth Kumar.G.V**, Technical officer over phone No. 0821-259126/ 9535345814.

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