

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



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Date: 16-08-2024

**AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

**Past Weather Data**

| Parameter                        | 13.08.2024 | 14.08.2024 | 15.08.2024 | 16.08.2024 |
|----------------------------------|------------|------------|------------|------------|
| Rainfall (mm)                    | 32.5       | 8          | 6          | 0          |
| Max. Temp. (°C)                  | 32.6       | 31.5       | 33.4       | 32.1       |
| Min. Temp. (°C)                  | 21.5       | 22.9       | 22.9       | 22.9       |
| Sky condition (Octas)            | -          | -          | -          | -          |
| Relative humidity (%) 0830 hours | 100        | 100        | 100        | 100        |
| Relative humidity (%) 1730 hours | 57         | 83         | 61         | 71         |
| Wind Speed (km/h)                | -          | -          | -          | -          |
| Wind Direction                   | -          | -          | -          | -          |

**Weather forecast for the next five days (From 17-08-2024 to 21-08-2024)**

| Parameter                        | 17.08.2024 | 18.08.2024 | 19.08.2024 | 20.08.2024 | 21.08.2024 |
|----------------------------------|------------|------------|------------|------------|------------|
| Rainfall (mm)                    | 7          | 6          | 4          | 4          | 2          |
| Max. Temp. (°C)                  | 35.4       | 32.6       | 36.2       | 37.2       | 33.4       |
| Min.Temp. (°C)                   | 17.9       | 18.3       | 18.5       | 19.1       | 18.4       |
| Sky condition (Octas)            | 8          | 8          | 8          | 8          | 7          |
| Relative humidity (%) 0830 hours | 89         | 89         | 88         | 85         | 89         |
| Relative humidity (%) 1730 hours | 56         | 61         | 56         | 54         | 60         |
| Wind Speed (kmph)                | 7          | 6          | 5          | 4          | 7          |
| Wind Direction                   | 270        | 292        | 207        | 200        | 169        |

**Forecast Summary**

As forecast received from IMD, Cloudy sky with **light rainfall** may be expected from 17.08.2024 to 21.08.2024 in Chamarajanagara district. The day temperature is expected to be 32.6-37.2°C & night temperature is expected 17.9-19.1°C. The relative humidity in the morning hours is expected to be 85-89% & afternoon relative humidity is expected to be in the range of 54-61%. Wind speed expected to be 5-8 km/ hr.

## Recommendations to the farmers:

| Crop | Pest/Disease | Damage symptoms | Control measures |
|------|--------------|-----------------|------------------|
|------|--------------|-----------------|------------------|

### General Advisory

#### General recommendations for agricultural activities based on the given rainfall forecast:

- Since light rainfall is expected, monitor soil moisture levels and provide supplemental irrigation if necessary, especially for crops in critical growth stages like flowering and fruit development.
- Ensure proper drainage in fields to prevent waterlogging, particularly for crops sensitive to excess moisture, like tomato and banana.
- Apply fertilizers based on crop requirements, focusing on nutrients that support current growth stages (e.g., potassium for fruit development in banana and nitrogen for vegetative growth in paddy).
- Regularly inspect crops for signs of pests and diseases, and apply appropriate control measures if needed. Humid conditions can promote disease outbreaks, so preventive fungicide application may be necessary.
- Use organic mulches to conserve soil moisture, suppress weeds, and regulate soil temperature, benefiting crops like turmeric, ginger, and tomato.
- For crops ready for harvest, like tobacco and sunflower, plan harvesting activities during dry periods to ensure quality and ease of operation.
- Provide support to crops prone to lodging or falling over, such as tomato and chilli, to maintain plant health and fruit quality.
- For crops like coffee, ensure adequate shade is provided to protect plants from heat stress during sunny periods.
- Store harvested produce in cool, dry conditions to maintain quality and prevent spoilage.

| Crop                                    | Stage                       | Weather-based Advisory  |
|---|-----------------------------|---|
| Banana                                  | Fruit development           | Ensure proper drainage to prevent waterlogging. Apply potassium-rich fertilizers to support fruit growth. Monitor for pest and disease outbreaks. |
| Tomato                                  | Fruit development           | Mulch around plants to conserve moisture. Support plants with stakes or cages. Apply fungicides if necessary to prevent blight.                   |
| Paddy                                   | Transplanting to vegetative | Maintain proper water levels in fields to support transplanting. Apply nitrogen fertilizers to boost vegetative growth.                           |
| Tobacco                                 | Harvesting                  | Harvest mature leaves in the morning to maintain quality. Cure harvested leaves under controlled conditions.                                      |
| Pulses (Black gram, Green gram, Cowpea) | Flowering                   | Ensure adequate soil moisture during flowering. Monitor for pests like pod borers and apply necessary controls.                                   |
| Chilli                                  | Transplanting               | Transplant in the evening to reduce transplant shock. Ensure soil is well-drained and apply a balanced fertilizer to promote root establishment.  |
| Sunflower                               | Harvesting                  | Harvest when the back of the sunflower heads turn yellow. Dry seeds thoroughly before storage.  |
| Turmeric and Ginger                     | Rhizome development         | Ensure consistent soil moisture to support rhizome growth. Apply organic mulches to conserve moisture and suppress weeds.                         |
| Coffee                                  | Berry development           | Provide shade to protect berries from heat stress. Maintain soil moisture through irrigation if necessary. Monitor for pests like berry borer.    |

|                            |                             |   |
|----------------------------|-----------------------------|---|
| Tomato<br>Fruit borer      | Fruiting                    | 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.<br>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 adult beetle from crown of the palm by means of iron hook.<br>Quinalphos 1.5 D.<br>OR<br>Malathion 5 D. mix with equal quantity of sand and plug the hole with mixture.<br>Avoid FYM pits in and around coconut garden<br>OR<br>Mix 350 g. Quinalphos 1.5 D/ 3 m <sup>2</sup> of FYM.  |
| Paddy leaf and neck blast  | Transplanting to Vegetative | > Seed treatment: Treat the seeds @ 4 g. Carbendazim 50 WP. or Tricyclazole 75 WP. @ 0.6 g./kg. seed.<br>Nursery spray<br>> When seedlings are 10 -12 days old spray any one of the following fungicides to a lit. water.<br>a) Carbendazim 50 WP. - 1.0 g.<br>b) Tricyclazole 75 WP. - 0.6 g.<br>c) Edifenphos 50 EC. - 1.0 ml.<br>d) Kitazin 48 EC. - 1.0 ml.<br>20 - 25 days after transplanting if disease incidence above 5 per cent sprays any one fungicide mention above. If necessary spray at flowering stage. 200 - 300 lits. spray solution/acre. |
| Maize<br>Fall army worm    | Vegetative stage            | Use chlorantraniliprole or Emamectin benzoate for fall armyworm. Regular monitoring.  |
| Avare pod borer            | Pod development             | Dust 10 kg. Fenvalrate 0.4 D.<br>OR<br>Malathion 5 D. per acre during morning hours.  |
| Ginger rhizome rot         | Rhizome development         | Plant disease free seed material<br>Treat the planting materials in 4.0 g. Mancozeb 75 Wdiv. in a lit. water.<br>On notice of the disease spray 2.0 g. Captan 50 Wdiv.<br>OR<br>2.0 g. Metalaxyl - MZ 72Wdiv. in a lit. water.<br>Before store of seed material soak them in 3.0 g. Mancozeb 75 Wdiv. in a lit. water for 30 min then dry in shade and store.   |
| Bean pod borer             | Pod development             | Spray 2.0 ml. Malathion 50 EC./ lit. water  |
| Coconut<br>Eriophyid mites | -                           | Addition to application of recommended NPK add 1 kg. Gypsum, 50 g. Boran, 5 kg. neem oil cake/palm.<br>Spray 80 WP. Sulphur @ 4 g./lit. water on 2 - 6 months old tender nuts.<br>Root feeding the mixture of 7.5 ml. Neemzol.<br>OR<br>10 ml. Econeem with equal quantity of water.  |

**Block level weather forecast (From 17-08-2024 to 21-08-2024)****Chamarajanagara**

| <b>Parameter</b>                        | <b>17.08.2024</b> | <b>18.08.2024</b> | <b>19.08.2024</b> | <b>20.08.2024</b> | <b>21.08.2024</b> |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Rainfall (mm)</b>                    | 0.5               | 6.3               | 1.1               | 4.3               | 2.9               |
| <b>Max. temp (°C)</b>                   | 28.2              | 26.9              | 26.8              | 27.4              | 26.7              |
| <b>Min.Temp (°C)</b>                    | 18                | 18.9              | 18.9              | 18.4              | 17.8              |
| <b>Sky condition (Octas)</b>            | 8                 | 8                 | 7                 | 6                 | 6                 |
| <b>Relative humidity (%) 0830 hours</b> | 86                | 85                | 85                | 85                | 82                |
| <b>Relative humidity (%) 1730 hours</b> | 46                | 52                | 52                | 50                | 51                |
| <b>Wind Speed (kmph)</b>                | 9                 | 7                 | 10                | 6                 | 9                 |
| <b>Wind Direction</b>                   | 293               | 293               | 108               | 135               | 249               |

**Gundlupete**

| <b>Parameter</b>                        | <b>17.08.2024</b> | <b>18.08.2024</b> | <b>19.08.2024</b> | <b>20.08.2024</b> | <b>21.08.2024</b> |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Rainfall (mm)</b>                    | 1.1               | 3.8               | 0.2               | 16.4              | 1.1               |
| <b>Max. temp (°C)</b>                   | 28                | 27.1              | 27.2              | 27.1              | 27.4              |
| <b>Min.Temp (°C)</b>                    | 18                | 18.9              | 19.2              | 18.6              | 18.1              |
| <b>Sky condition (Octas)</b>            | 8                 | 8                 | 7                 | 6                 | 6                 |
| <b>Relative humidity (%) 0830 hours</b> | 89                | 87                | 82                | 86                | 83                |
| <b>Relative humidity (%) 1730 hours</b> | 52                | 52                | 52                | 53                | 53                |
| <b>Wind Speed (kmph)</b>                | 9                 | 6                 | 11                | 6                 | 15                |
| <b>Wind Direction</b>                   | 250               | 296               | 103               | 240               | 246               |

**Kollegala**

| <b>Parameter</b>                        | <b>17.08.2024</b> | <b>18.08.2024</b> | <b>19.08.2024</b> | <b>20.08.2024</b> | <b>21.08.2024</b> |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Rainfall (mm)</b>                    | 5.5               | 12.6              | 0.6               | 5.7               | 4.4               |
| <b>Max. temp (°C)</b>                   | 29.6              | 29.4              | 29.4              | 29.9              | 28.5              |
| <b>Min.Temp (°C)</b>                    | 19.2              | 20.3              | 20.2              | 19.5              | 18.8              |
| <b>Sky condition (Octas)</b>            | 8                 | 8                 | 7                 | 6                 | 7                 |
| <b>Relative humidity (%) 0830 hours</b> | 89                | 86                | 89                | 91                | 86                |
| <b>Relative humidity (%) 1730 hours</b> | 52                | 53                | 52                | 53                | 54                |
| <b>Wind Speed (kmph)</b>                | 8                 | 5                 | 8                 | 7                 | 9                 |
| <b>Wind Direction</b>                   | 281               | 293               | 108               | 135               | 252               |

## Yelandur

| Parameter                        | 17.08.2024 | 18.08.2024 | 19.08.2024 | 20.08.2024 | 21.08.2024 |
|----------------------------------|------------|------------|------------|------------|------------|
| Rainfall (mm)                    | 4          | 9.3        | 2.5        | 4.8        | 5.7        |
| Max. temp (°C)                   | 28.8       | 27.8       | 27.7       | 28.3       | 27.5       |
| Min.Temp (°C)                    | 18.2       | 19.4       | 19.3       | 18.6       | 18         |
| Sky condition (Octas)            | 8          | 8          | 7          | 6          | 7          |
| Relative humidity (%) 0830 hours | 88         | 85         | 87         | 88         | 84         |
| Relative humidity (%) 1730 hours | 49         | 53         | 53         | 52         | 53         |
| Wind Speed (kmph)                | 9          | 6          | 9          | 6          | 10         |
| Wind Direction                   | 285        | 270        | 108        | 135        | 249        |

## Hanur

| Parameter                        | 17.08.2024 | 18.08.2024 | 19.08.2024 | 20.08.2024 | 21.08.2024 |
|----------------------------------|------------|------------|------------|------------|------------|
| Rainfall (mm)                    | 19.2       | 20.3       | 8.4        | 9.3        | 14.4       |
| Max. temp (°C)                   | 29.8       | 29.4       | 29.4       | 29.8       | 28.8       |
| Min.Temp (°C)                    | 19.6       | 20.3       | 20.4       | 19.6       | 19         |
| Sky condition (Octas)            | 8          | 8          | 7          | 6          | 7          |
| Relative humidity (%) 0830 hours | 93         | 91         | 93         | 94         | 90         |
| Relative humidity (%) 1730 hours | 59         | 61         | 59         | 58         | 59         |
| Wind Speed (kmph)                | 6          | 5          | 7          | 7          | 6          |
| Wind Direction                   | 293        | 158        | 108        | 144        | 270        |

- 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](http://mausam.imd.gov.in)

For any information farmers can contact **Dr. C. Ramachandra**, Senior Farm Superintendent/  
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