

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



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MYSURU - 570003**



Date: 16-07-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	12.07.2024	13.07.2024	14.07.2024	15.07.2024	16.07.2024
Rainfall (mm)	0	3.5	0	5	6
Max. Temp. (°C)	30.8	31.4	29.1	27.8	26.3
Min. Temp. (°C)	21.3	22.2	22.6	21.5	22
Sky condition (Octas)	-	-	-	-	-
Relative humidity (%) 0830 hours	89	92	87	100	91
Relative humidity (%) 1730 hours	59	98	76	78	84
Wind Speed (km/h)	-	-	-	-	-
Wind Direction	-	-	-	-	-

Weather forecast for the next five days (From 17-07-2024 to 21-07-2024)

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	8	4	4	3	4
Max. Temp. (°C)	33.4	33.1	30	32	33.5
Min.Temp. (°C)	18.3	17.6	17.5	17.4	17.6
Sky condition (Octas)	7	8	8	8	8
Relative humidity (%) 0830 hours	81	83	87	81	79
Relative humidity (%) 1730 hours	61	63	69	61	57
Wind Speed (kmph)	8	4	4	5	5
Wind Direction	248	248	248	248	248

Forecast Summary

As forecast received from IMD, Cloudy sky with **light to moderate rainfall** may be expected from 17.07.2024 to 21.07.2024 in Chamarajanagara district. The day temperature is expected to be 30-33.5°C & night temperature is expected 17.4-18.3°C. The relative humidity in the morning hours is expected to be 79-87% & afternoon relative humidity is expected to be in the range of 57-69%. Wind speed expected to be 5-8 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
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General Advisory

For pulses, treat the seeds with *Rhizobium* culture and fungicides to ensure healthy germination and to protect against soil-borne diseases.

Rhizobium Inoculation: Mix *Rhizobium* culture with the seeds at the rate of 5-7 grams per kilogram of seed to enhance nitrogen fixation and improve growth.

Fungicide Treatment: Treat seeds with Thiram or Carbendazim @ 2 grams per kilogram of seed to prevent fungal diseases.

Crop Management:

1. Field Crops (e.g., Paddy, Maize, Ragi):

- **Water Management:**
 - With light to moderate rainfall (10-12mm), ensure fields are properly irrigated but avoid waterlogging.
 - Implement rainwater harvesting techniques to collect and store excess rainwater for future use.
- **Nutrient Management:**
 - Apply fertilizers based on soil test recommendations. Consider split applications to avoid nutrient leaching due to rainfall.
 - Use organic manures to improve soil fertility and structure.
- **Weed Control:**
 - Light rainfall may encourage weed growth. Use manual weeding or appropriate herbicides to control weeds.
- **Pest and Disease Management:**
 - Monitor for pests such as stem borers in paddy and maize. Use pheromone traps and biological control methods.
 - High humidity can promote fungal diseases. Apply fungicides as needed and maintain field hygiene.

2. Horticultural Crops (e.g., Vegetables, Fruits):

- **Water Management:**
 - Ensure drip irrigation systems are functioning well to provide adequate moisture without waterlogging.
 - Use mulch to conserve soil moisture and regulate soil temperature.
- **Pest and Disease Management:**
 - Regularly inspect crops for signs of pests and diseases. Use integrated pest management (IPM) practices to control infestations.
 - Apply preventive fungicides in high humidity conditions to protect against fungal diseases.
- **Nutrient Management:**
 - Fertilize based on crop needs and soil test results. Use foliar sprays to address micronutrient deficiencies.
 - Ensure proper staking and support for fruit-bearing plants to prevent damage from wind and rain.

3. Plantation Crops (e.g., Coconut, Arecanut):

- **Water Management:**
 - Ensure adequate irrigation, especially during periods of low rainfall. Maintain soil moisture levels without causing waterlogging.

- **Disease Management:**
 - Monitor for diseases such as bud rot in coconut and root grubs in arecanut. Apply appropriate treatments as needed.
 - Maintain proper spacing and hygiene to reduce disease incidence.
- **Nutrient Management:**
 - Apply fertilizers based on the specific requirements of the plantation crops. Use organic manures to improve soil health.
 - Mulch around the base of the plants to conserve moisture and suppress weed growth.

4. Livestock Management:

- **Shelter and Hygiene:**
 - Ensure proper shelter for livestock to protect them from rain and fluctuating temperatures.
 - Maintain cleanliness in animal shelters to prevent disease outbreaks.
- **Health Management:**
 - Monitor livestock for signs of illness, especially respiratory issues due to high humidity.
 - Provide clean drinking water and balanced nutrition to maintain animal health.

Maize Fall army worm	Vegatative stage	<p>5% damage- Application of 5% neem seed kernel extract (NSKE) or azadirachtin 1500ppm @ 5ml/litre (1 litre/acre)of water.</p> <p>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.</p>
Coconut	Rugose whitefly	<p>✓ Spraying starch solution (1%) to dislodge the heavy sooty mould deposition on the leaves of infested plants.</p> <p>✓ Use of yellow sticky traps to trap the adult whiteflies</p> <p>✓ In case of severe infestation, spray neem oil 0.5%</p>
Cowpea	Pod borer	<p>Caterpillar bore the pods and feed on seeds. Infested pods with hole.</p> <p>On tender pods spray Chlorpyriphos - 20 EC. @ 2 ml./lit. water. 300 lit. spray solution/acre.</p>
Tomato Serpentine leaf miner	Fruiting	<p>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.</p>
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 exceeds10 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	<p>Remove the beetle from infected part and fill 2 % Quinolphos or 5 % Melathion in sand @ 1:1 ratio.</p>

Block level weather forecast (From 17-07-2024 to 21-07-2024)**Chamarajanagara**

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	1.8	3.1	1.4	0.4	0.2
Max. temp (°C)	20.3	24.1	19.7	22.8	21.1
Min.Temp (°C)	17.5	18.3	17.8	17.8	17.8
Sky condition (Octas)	8	7	8	8	8
Relative humidity (%) 0830 hours	80	80	82	78	78
Relative humidity (%) 1730 hours	66	57	73	57	61
Wind Speed (kmph)	29	30	28	29	25
Wind Direction	248	248	248	248	248

Gundlupete

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	1.4	2.5	2.1	0.5	0.4
Max. temp (°C)	20.6	23.2	20.5	23	20.7
Min.Temp (°C)	17.6	18.3	17.9	17.9	17.7
Sky condition (Octas)	8	7	8	8	8
Relative humidity (%) 0830 hours	85	85	85	83	84
Relative humidity (%) 1730 hours	71	69	76	63	68
Wind Speed (kmph)	28	28	28	28	23
Wind Direction	248	248	248	248	248

Kollegala

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	2.3	6	0.3	1.9	0
Max. temp (°C)	22.6	26.6	23.5	24.8	24.7
Min.Temp (°C)	19.1	19.8	19.4	19.4	19.8
Sky condition (Octas)	8	7	8	8	8
Relative humidity (%) 0830 hours	79	82	83	81	78
Relative humidity (%) 1730 hours	66	57	71	59	57
Wind Speed (kmph)	32	31	28	29	26
Wind Direction	248	248	248	248	248

Yelandur

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	2.4	5	1	1.2	0.2
Max. temp (°C)	21.2	25.1	21	23.4	22.6
Min.Temp (°C)	18	18.8	18.3	18.3	18.5
Sky condition (Octas)	8	7	8	8	8
Relative humidity (%) 0830 hours	80	81	83	80	78
Relative humidity (%) 1730 hours	66	58	74	59	59
Wind Speed (kmph)	31	31	27	29	26
Wind Direction	248	248	248	248	248

Hanur

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	4.3	8.6	1.5	2.5	0.8
Max. temp (°C)	22.7	27.2	23.7	25.2	24.2
Min.Temp (°C)	19.5	20	19.8	19.7	19.9
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	83	85	86	83	81
Relative humidity (%) 1730 hours	73	60	76	63	64
Wind Speed (kmph)	27	27	24	26	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.

**AMFU of IMD,
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