

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



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Date: 12-07-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA 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)	0.5	2	0	-	16.6
Max. Temp. (°C)	30.1	29.2	29.9	32.1	28.6
Min. Temp. (°C)	21.8	20.5	20.1	22.1	25
Sky condition (Octas)	-	-	-	-	8
Relative humidity (%) 0830 hours	100	100	88	90	98
Relative humidity (%) 1730 hours	65	92	67	56	87
Wind Speed (km/h)	-	-	-	-	0
Wind Direction	-	-	-	-	0

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)	2	3	4	5	2
Max. Temp. (°C)	37.9	32.3	33.8	31.9	37.9
Min.Temp. (°C)	17.1	16.9	17.4	17	17.1
Sky condition (Octas)	8	8	7	8	8
Relative humidity (%) 0830 hours	81	83	82	85	81
Relative humidity (%) 1730 hours	46	60	55	62	46
Wind Speed (kmph)	17	18	21	20	17
Wind Direction	249	249	257	249	249

Forecast Summary

As forecast received from IMD, Cloudy sky with **light rainfall** may be expected from 13.07.2024 to 17.07.2024 in Chamarajanagara district. The day temperature is expected to be 31.9-37.9°C & night temperature is expected 16.9-17.4°C. The relative humidity in the morning hours is expected to be 81-85% & afternoon relative humidity is expected to be in the range of 46-62%. Wind speed expected to be 17-21 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: center;">OR</p> <p>> Dust 8 - 10 kg. Malathion 5 D./acre during morning hours.</p>	

Cowpea viral disease	Pod 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)**Chamarajanagara**

Parameter	13.07.2024	14.07.2024	15.07.2024	16.07.2024	17.07.2024
Rainfall (mm)	0.9	0.1	3.3	4.8	0.9
Max. temp (°C)	26.2	24.2	23.7	20.8	22.8
Min.Temp (°C)	17.8	18	17.7	18.3	18.1
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	80	81	82	82	80
Relative humidity (%) 1730 hours	46	58	56	63	58
Wind Speed (kmph)	23	23	27	28	31
Wind Direction	249	248	248	248	248

Gundlupete

Parameter	13.07.2024	14.07.2024	15.07.2024	16.07.2024	17.07.2024
Rainfall (mm)	0.2	0.8	2.2	3.2	1.4
Max. temp (°C)	26.2	23.2	24.3	21.7	22.8
Min.Temp (°C)	18	18	17.9	18.3	18
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	84	85	85	85	85
Relative humidity (%) 1730 hours	50	71	61	66	63
Wind Speed (kmph)	22	23	27	27	30
Wind Direction	248	248	248	248	248

Kollegala

Parameter	13.07.2024	14.07.2024	15.07.2024	16.07.2024	17.07.2024
Rainfall (mm)	0	0.6	5.1	9.3	1.6
Max. temp (°C)	28.3	25.7	25.2	22.4	24.2
Min.Temp (°C)	19.5	19.7	19.2	19.6	19.7
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	79	83	83	83	82
Relative humidity (%) 1730 hours	45	59	59	68	65
Wind Speed (kmph)	25	23	26	27	31
Wind Direction	249	248	248	248	248

Yelandur

Parameter	13.07.2024	14.07.2024	15.07.2024	16.07.2024	17.07.2024
Rainfall (mm)	3.8	0.5	5	7.9	1.4
Max. temp (°C)	27	24.7	23.8	21.2	22.9
Min.Temp (°C)	18.3	18.5	18.1	18.7	18.6
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	81	83	83	83	81
Relative humidity (%) 1730 hours	47	59	58	67	63
Wind Speed (kmph)	24	23	27	27	31
Wind Direction	249	248	248	248	248

Hanur

Parameter	13.07.2024	14.07.2024	15.07.2024	16.07.2024	17.07.2024
Rainfall (mm)	9.9	1.8	7.3	13.2	1.7
Max. temp (°C)	28.6	25.6	25.4	22.8	24.5
Min.Temp (°C)	19.6	19.9	19.5	19.7	20
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	83	86	86	86	84
Relative humidity (%) 1730 hours	51	65	64	72	69
Wind Speed (kmph)	20	19	24	24	28
Wind Direction	257	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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