

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



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Date: 09-07-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	05.06.2024	06.07.2024	07.07.2024	08.07.2024	09.07.2024
Rainfall (mm)	0	0	0	0.5	2
Max. Temp. (°C)	30.8	30.4	28.2	30.1	29.2
Min. Temp. (°C)	21.6	22.7	22.4	21.8	20.5
Sky condition (Octas)	-	-	-	-	-
Relative humidity (%) 0830 hours	89	82	83	100	100
Relative humidity (%) 1730 hours	57	64	67	65	92
Wind Speed (km/h)	-	-	-	-	-
Wind Direction	-	-	-	-	-

Weather forecast for the next five days (From 10-07-2024 to 14-07-2024)

Parameter	10.07.2024	11.07.2024	12.07.2024	13.07.2024	14.07.2024
Rainfall (mm)	5	5	5	7	8
Max. Temp. (°C)	30.6	32.5	32.8	31.7	32.9
Min.Temp. (°C)	15.5	16.6	16.9	16.7	16.7
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	86	82	85	87	85
Relative humidity (%) 1730 hours	70	53	56	61	60
Wind Speed (kmph)	10	13	13	14	14
Wind Direction	270	248	248	252	249

Forecast Summary

As forecast received from IMD, Cloudy sky with **light to moderate rainfall** may be expected from 10.07.2024 to 14.07.2024 in Chamarajanagara district. The day temperature is expected to be 30.6-32.9°C & night temperature is expected 15.5-16.9°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 53-70%. Wind speed expected to be 10-14 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	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 10-07-2024 to 14-07-2024)

Chamarajanagara

Parameter	10.07.2024	11.07.2024	12.07.2024	13.07.2024	14.07.2024
Rainfall (mm)	0	0	0	7.5	0.6

Max. temp (°C)	24.6	25.9	24	26.4	23.9
Min.Temp (°C)	17.4	17.3	16.8	17.3	17.4
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	79	76	80	84	82
Relative humidity (%) 1730 hours	46	47	51	45	51
Wind Speed (kmph)	19	19	18	19	22
Wind Direction	248	248	257	257	249

Gundlupete

Parameter	10.07.2024	11.07.2024	12.07.2024	13.07.2024	14.07.2024
Rainfall (mm)	0	0	0	10.9	0.1
Max. temp (°C)	24.7	25.9	24.7	26.1	23.8
Min.Temp (°C)	17.4	17.3	17.1	17.3	17.3
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	83	81	84	88	86
Relative humidity (%) 1730 hours	52	53	55	51	58
Wind Speed (kmph)	18	18	17	18	20
Wind Direction	248	248	252	248	248

Kollegala

Parameter	10.07.2024	11.07.2024	12.07.2024	13.07.2024	14.07.2024
Rainfall (mm)	0	0	0	8.5	2.9
Max. temp (°C)	28.6	28.3	26.3	28.7	26.4
Min.Temp (°C)	19.2	19	18.3	19.1	19.2
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	78	76	81	85	84
Relative humidity (%) 1730 hours	45	46	54	46	52
Wind Speed (kmph)	20	21	19	20	22
Wind Direction	248	248	257	257	248

Yelandur

Parameter	10.07.2024	11.07.2024	12.07.2024	13.07.2024	14.07.2024
Rainfall (mm)	0	0	0	10.7	1.8
Max. temp (°C)	26.2	26.9	24.8	27.5	24.7
Min.Temp (°C)	18	17.8	17.2	17.9	18

Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	79	76	81	85	84
Relative humidity (%) 1730 hours	46	47	53	46	53
Wind Speed (kmph)	20	20	19	19	22
Wind Direction	248	248	257	257	248

Hanur

Parameter	10.07.2024	11.07.2024	12.07.2024	13.07.2024	14.07.2024
Rainfall (mm)	0.5	0	0	16.9	6.5
Max. temp (°C)	28.2	28.7	26.7	29	26.1
Min.Temp (°C)	19.4	19.3	18.5	19.3	19.3
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	82	79	83	88	87
Relative humidity (%) 1730 hours	50	49	57	49	59
Wind Speed (kmph)	16	17	16	16	19
Wind Direction	248	248	257	257	252

- 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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