

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



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AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Weather forecast for the next five days (From 03-07-2024 to 07-07-2024)

Parameter	03.07.2024	04.07.2024	05.07.2024	06.07.2024	07.07.2024
Rainfall (mm)	3	5	8	9	5
Max. Temp. (°C)	31	32	31	31	30
Min.Temp. (°C)	17.5	17.6	18.5	17.8	17.4
Sky condition (Octas)	8	7	8	8	8
Relative humidity (%) 0830 hours	85	84	78	79	79
Relative humidity (%) 1730 hours	57	49	46	50	62
Wind Speed (kmph)	13	15	15	14	12
Wind Direction	249	252	249	248	249

Forecast Summary

Heavy rainfall during 2nd-6th July at isolated places likely over South Interior Karnataka and Coastal Karnataka.

As forecast received from IMD, Cloudy sky with **light to moderate rainfall** may be expected from 03.07.2024 to 07.07.2024 in Chamarajanagara district. The day temperature is expected to be 30-32°C & night temperature is expected 17.4-18.5°C. The relative humidity in the morning hours is expected to be 78-85% & afternoon relative humidity is expected to be in the range of 46-62%. Wind speed expected to be 12-15 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
Raising of seedlings in nursery beds (seedlings required per acre)			
Area	:	25 ft. length, 4 ft. wide and 4'height beds of 30 (300 sqm. /acre).	
Seed	:	25 (kg./acre)	
Selection of good quality seed	:	Add the seeds in water and common salt solution (1: 4 proportion) and mix well, half filled and Chaffey seeds will float, separate these seeds and wash good seeds in fresh water and dry under shade.	
Land preparation	:	Plough the land properly, remove the weeds and make raised beds after levelling.	
Nutrients required and sowing	:	For every 300 sqm. apply 750 kg FYM and 5.85 kg urea,8.4 kg super phosphate and 2.25kg muriate of potash or any equivalent inorganic fertilizers and mix well in the soil, sowing of treated seeds equally in all	

		30 nursery beds.
Water management	:	Thinly sprinkle the water two to three times per day.
Weed management	:	Within 24 hrs after sowing for every 300 sqm. nursery area, spray 75 ml Butachlor (50 E.C.) or 30 ml Pretelachlor + Saffner (30 E.C) solution in 25 ltr water or 300 Bensulphuron methyl (0.6% G.) + Pretelachlor (6.0% G.) or 7.5 g. Pyrozosulphuron ethyl (10% wp) mix with 5 - 10 kg sand and broadcast or Pretelachlor 120 g. or 3 or 4 days after of sowing, 24 ml. Anilophos (30 E.C.) in 25 ltr of water and subsequent weeds can be removed by hand weeding.
Plant protection	:	Spray 100 ml. Monocrotophos 36 S.L. after 10 - 12 days after sowing in 50 litres water against green leaf hopper.
Transplanting of seedlings		20 - 25 days after sowing

Seed treatment of Green gram, black gram, cowpea, Pigeon pea

Treat the seeds with bio-fertilizers like Rhizobium and Phosphorus Solubilising Bacteria (PSB) @ 200 g. /acre, each.

Summer paddy	Rice earhead bug	<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	<p>Bleached leaves, scanty flowering</p> <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	<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>
Cowpea	Aphids	<p>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.</p>
Tobacco	Tobacco leaf curl virus (Vector - Whitefly)	<ul style="list-style-type: none"> Remove and destroy the diseased tobacco seedlings before and after planting whenever they are seen in the field. Fill the gaps with healthy seedlings if it is not too late. Alternate weed hosts for whitefly should be removed and destroyed. In endemic areas <i>Sesbania</i> sp. may be grown as a barrier crop around tobacco fields. Install 12 yellow sticky traps (castor oil coated) per hectare to monitor the whitefly population. If 100-200 whiteflies stick to the trap the following insecticide schedule has to be adopted. 1st spray Chlorpyrifos 20% E.C. @ 25 ml. In 10 litres of

		water 2 nd spray Monocrotophos 36%, W.S.C. @ 15 ml in 10 litres of water 3 rd spray Acephate 75% S.P. @ 10 gm in 10 litres of water 4 th spray Demeton-s-methyl 25% E.C. @ 15 ml in 10 litres of water
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	<p>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.</p> <p>Spray 1.7 ml. Dimethoate 30 EC. in lit. water, when infestation noticed. 250 lit. spray solution/acre.</p>
Cowpea	Pod borer	<p>Caterpillar bore the pods and feed on seeds. Infested pods with hole.</p> <p>On tender pods spray Chlorpyrifos - 20 EC. @ 2 ml./lit. water. 300 lit. spray solution/acre.</p>
Tomato	Serpentine leaf miner	<p>Larva mines the leaf epidermis, serpentine tunnels on leaves.</p> <p>Spray 0.3 ml. Imidachloprid 17.8 SL. or 2.0 ml. Triazophos 40 EC/lit. water.</p>
Tomato	Fruit borer	<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	<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 03-07-2024 to 07-07-2024)

Chamarajanagara

Parameter	03.07.2024	04.07.2024	05.07.2024	06.07.2024	07.07.2024
Rainfall (mm)	0.5	0.2	0.1	0	0
Max. temp (°C)	26.1	26.5	26	23.8	25.9
Min.Temp (°C)	17.9	18.1	18.3	18.3	18.2
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	81	78	76	70	76
Relative humidity (%) 1730 hours	44	43	43	52	43
Wind Speed (kmph)	21	22	21	23	19
Wind Direction	248	248	248	248	248

Gundlupete

Parameter	03.07.2024	04.07.2024	05.07.2024	06.07.2024	07.07.2024
Rainfall (mm)	0	0	0	0	0.2
Max. temp (°C)	26.2	26.3	26.2	23	25.3
Min.Temp (°C)	17.7	17.7	18.1	17.8	18.1
Sky condition (Octas)	6	7	8	8	8
Relative humidity (%) 0830 hours	86	83	81	77	82
Relative humidity (%) 1730 hours	50	50	49	61	52
Wind Speed (kmph)	20	20	20	22	18
Wind Direction	248	248	248	248	248

Kollegala

Parameter	03.07.2024	04.07.2024	05.07.2024	06.07.2024	07.07.2024
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	28.3	28.7	28.3	27.4	28.2
Min.Temp (°C)	19.6	20	20.2	20.6	20.1
Sky condition (Octas)	6	7	8	8	8
Relative humidity (%) 0830 hours	80	77	74	68	76
Relative humidity (%) 1730 hours	43	42	43	48	42
Wind Speed (kmph)	23	23	23	27	22
Wind Direction	248	248	248	248	248

Yelandur

Parameter	03.07.2024	04.07.2024	05.07.2024	06.07.2024	07.07.2024
Rainfall (mm)	1.5	0.1	0.2	0	0
Max. temp (°C)	26.9	27.3	26.8	25.3	26.6
Min.Temp (°C)	18.5	18.8	19	19.2	19
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	81	78	76	69	76
Relative humidity (%) 1730 hours	44	43	43	50	43
Wind Speed (kmph)	22	23	22	25	21
Wind Direction	248	248	248	248	248

Hanur

Parameter	03.07.2024	04.07.2024	05.07.2024	06.07.2024	07.07.2024
Rainfall (mm)	2.8	0.2	0.3	0.3	0
Max. temp (°C)	28.7	29.1	28.7	27.3	28.8
Min.Temp (°C)	19.9	20.2	20.5	20.8	20.3
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	83	80	77	71	79
Relative humidity (%) 1730 hours	47	46	46	52	43
Wind Speed (kmph)	19	20	18	21	17
Wind Direction	249	252	249	248	249

- 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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