UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

GRAMIN KRISHI MAUSAM SEWA
AMFU, OFRS, NAGANAHALLI,
MYSURU - 570003

Date: 25-04-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Weather forecast for the next five days (From 26-03-2024 to 30-04-2024)

Parameter	26.04.2024	27.04.2024	28.04.2024	29.04.2024	30.04.2024
Rainfall (mm)	0	0	0	0	0
Max. Temp. (°C)	38.4	38.8	39.4	39.5	38.8
Min.Temp. (°C)	19	19	18.8	19.4	19.2
Sky condition (Octas)	8	5	5	4	4
Relative humidity (%) 0830 hours	70	64	74	75	73
Relative humidity (%) 1730 hours	18	18	17	19	20
Wind Speed (kmph)	10	9	9	8	9
Wind Direction	124	124	135	124	117

Forecast Summary

Heat wave conditions are likely to persist in isolated places over the district for the next five days.

As forecast received from IMD, Cloudy sky with no rainfall may be expected from 26.04.2024 to 30.04.2024 in Chamarajanagara district. The day temperature is expected to be 38.4-39.5°C & night temperature is expected 18.8-19.4°C. The relative humidity in the morning hours is expected to be 64-75% & afternoon relative humidity is expected to be in the range of 17-20%. Wind speed expected to be 8-10 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures

- **Pest and Disease Monitoring: Regularly scout fields for signs of pests and diseases, which may proliferate in warmer conditions. Implement integrated pest management (IPM) strategies, such as biological control, crop rotation, and targeted pesticide use, to minimize pest and disease pressure.**
- **Soil Health: Prioritize soil conservation and management practices to maintain soil health and resilience. Use cover crops, crop rotation and organic amendments to improve soil structure, moisture retention and nutrient cycling.**
- **Water Management:** Ensure adequate water supply to crops. Implement efficient irrigation systems such as drip irrigation to minimize water loss through evaporation.
- **Crop Selection:** Opt for drought-resistant or heat-tolerant crop varieties that can withstand high

temperatures.

- **Timing of Farming Activities:** Schedule farming activities such as planting, watering and harvesting during cooler parts of the day, typically early morning or late evening, to minimize heat stress on plants and reduce water evaporation.
- **Mulching:** Apply mulch to retain soil moisture and regulate soil temperature. Mulching also helps to suppress weed growth, reducing competition for water.
- **Monitoring:** Regularly monitor soil moisture levels, crop health and animal behavior to detect signs of heat stress or dehydration early.
- **Livestock Management:** Ensure adequate ventilation and access to clean water and shade for livestock. Avoid moving animals during the hottest parts of the day.
- **Poultry:** Ensure that poultry houses are well-ventilated and provide adequate shade to reduce heat stress on birds. Install fans or misting systems to help cool the environment. Ensure a constant supply of cool, fresh water for the birds to drink. Consider adding electrolytes or vitamins to the water to help birds cope with heat stress
- **Vermicompost:** As dry weather is predicted for the next five days, care should be taken to maintain the optimum moisture level of 60% in vermicompost pits.

Banana	**Pseudostem borer**	• **The grubs bore the pseudostem, affected plants with number of holes on pseudostem, breaking of infested plants at damaged portion due to wind.** • **Management: Add 3.0 ml. Chloropyriphos 20 EC.or 3.0 ml. Dimethoate 30 EC. with 5.0 ml. water. Inject the mixture to the pseudostem about a feet height from ground level.**
Cowpea/Black gram	**Aphids**	• **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	**Black headed catterpillar**	**Remove and burn the severly affected fronds.** **On community basis feed the Manocrotophos 36 SL. to the palm through root.** **Method: A meter away from trunk, dig out and select brown coloured pencil thickness size root. Cut the root in a slanting position. To the polythene bag (size of 15 cm. length 4 cm. breadth) add 7.5 to 10 ml. Monocrotophos 36 SL. with equal quantity of water, introduce and immerse cut end of the root in insecticide mixture and tie the bag with thread.** **The palm absorb the chemical within a period of 24 hours, if not after 48 hours select another root to feed the chemical. Not to harvest tender coconuts/matured coconuts for 30 days from date of chemical treatment.**
Cattle management during summer months	• **Maximum temperature expected to rise in coming days so tie the livestock animals in shade / cool place.** • **Put 4-6 inches of grass cover on the cattle shed, water 2-3 times in the afternoon and also water the floor and walls of the cattle shed. This keeps the cattle shed fairly cool.** • **Arrangements should be made so that air can flow easily in the cattle shed.** • **Clean water should be given to the cattles.** • **Don't allowed the cattle to graze during afternoon period when the**	

	temperature is high, cattles should be allowed to graze in the morning or evening time.

Block level weather forecast (From 26-04-2024 to 30-04-2024)

Chamarajanagara					
Parameter	**26.04.2024**	**27.04.2024**	**28.04.2024**	**29.04.2024**	**30.04.2024**
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	31.8	32.1	32.9	32.8	33
Min.Temp (°C)	17.5	17.3	17.7	17.9	17.4
Sky condition (Octas)	3	4	4	4	4
Relative humidity (%) 0830 hours	67	69	61	72	77
Relative humidity (%) 1730 hours	18	16	15	18	19
Wind Speed (kmph)	11	8	9	8	9
Wind Direction	146	116	117	117	288

Gundlupete					
Parameter	**26.04.2024**	**27.04.2024**	**28.04.2024**	**29.04.2024**	**30.04.2024**
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	31.6	32.1	33	32.8	32.8
Min.Temp (°C)	17.6	17.4	17.7	17.8	17.4
Sky condition (Octas)	3	4	4	4	3
Relative humidity (%) 0830 hours	73	66	64	73	81
Relative humidity (%) 1730 hours	18	15	16	16	19
Wind Speed (kmph)	11	10	11	10	11
Wind Direction	117	207	203	75	244

Kollegala					
Parameter	**26.04.2024**	**27.04.2024**	**28.04.2024**	**29.04.2024**	**30.04.2024**
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	34.6	34.9	35.6	35.6	35.7
Min.Temp (°C)	19.6	18.8	19.6	19.8	19.6
Sky condition (Octas)	3	4	5	4	4
Relative humidity (%) 0830 hours	67	84	73	82	81
Relative humidity (%) 1730 hours	17	14	14	17	18
Wind Speed (kmph)	11	8	10	9	9
Wind Direction	135	90	243	117	75

Yelandur					
Parameter	**26.04.2024**	**27.04.2024**	**28.04.2024**	**29.04.2024**	**30.04.2024**
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	32.9	33.3	34.1	33.9	34.1
Min.Temp (°C)	18.3	17.7	18.3	18.6	18.2
Sky condition (Octas)	4	4	5	4	4
Relative humidity (%) 0830 hours	69	80	69	79	80
Relative humidity (%) 1730 hours	17	15	14	18	18
Wind Speed (kmph)	11	8	9	9	9
Wind Direction	124	90	243	293	288

- 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**, Research Assoicateover phone No. 0821-259126/ 9535345814.

AMFU of IMD,
Naganahalli, Mysuru