

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



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



Date: 30-04-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data			
Parameter	27.04.2024	28.04.2024	29.04.2024
Rainfall (mm)	0	0	0
Max. Temp. (°C)	38.6	39.2	39.2
Min. Temp. (°C)	22.2	20.4	20.4
Sky condition (Octas)	4	4	1
Relative humidity (%) 0830 hours	67	73	66
Relative humidity (%) 1730 hours	25	26	25
Wind Speed (km/h)	4	0	2
Wind Direction	50	0	20

Weather forecast for the next five days (From 01-05-2024 to 05-05-2024)

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	1	0	0	0	0
Max. temp (°C)	38.4	39.5	40.1	39.3	40.1
Min.Temp (°C)	19.8	21.1	20	19.1	18.7
Sky condition (Octas)	4	5	4	3	4
Relative humidity (%) 0830 hours	83	72	73	74	75
Relative humidity (%) 1730 hours	18	22	24	24	21
Wind Speed (kmph)	13	10	11	13	12
Wind Direction	240	251	245	248	248

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 01.05.2024 to 05.05.2024 in Mandya district. The day temperature is expected to be 38.4-40.1°C & night temperature is expected 18.7.-21.1°C. The relative humidity in the morning hours is expected to be 72-83% & afternoon relative humidity is expected to be in the range of 18-24% per cent. Wind speed expected to be 10-12 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
<ul style="list-style-type: none"> ● 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. 			
Chilli	Thrips and mites	Symptoms : Severe leaf curling in both upward and downward directions, elongated petiole, Yellow mixed green leaves, the irregular leaf size with curled leaves, stunted growth of the plants.	Management: spray 2.5 ml. Dicofol 18.5 EC or 0.3 ml. Imidacloprid 17.8 SL./lit. water. Repeat the spray at an interval of 10 days, around 200 lit. spray solution/acre/spray.
Bean	Yellow mosaic virus	Yellow mixed green coloured leaves, stunted growth, to manage this disease uproot the infected plants and spray Imidocloprid 17.8 SL @ 0.5ml/lit.of water.	
Banana	Pseudo stem borer	<ul style="list-style-type: none"> ● 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. 	
Tomato	Fruit borer	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 1.0 g. Methomil 40 SP. in a lit. water.	

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 or azadirachtin 1500ppm @ 5ml/litre.
watermelon	Sucking pests	For control of sucking insects in water melon install 8 – 10 yellow sticky traps per acre. When the infestation is sever spray melathion 50 EC @ 1 ml/lit water.
Cattle management during summer months		<ul style="list-style-type: none"> • 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 01-05-2024 to 05-05-2024)

Krishnarajpet

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0.1	0	0	0	0
Max. temp (°C)	36.2	36.7	36.1	37.8	38.4
Min.Temp (°C)	21.4	21.6	22.1	21.2	21.1
Sky condition (Octas)	5	6	4	2	2
Relative humidity (%) 0830 hours	86	81	68	77	76
Relative humidity (%) 1730 hours	17	22	16	12	17
Wind Speed (kmph)	15	13	12	14	12
Wind Direction	248	261	15	250	248

Maddur

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0.1	0	0	0	0
Max. temp (°C)	38.4	39.7	38.9	40.5	40.7
Min.Temp (°C)	23.5	25	24.8	24.1	23.7
Sky condition (Octas)	4	7	4	2	1
Relative humidity (%) 0830 hours	83	73	72	73	72
Relative humidity (%) 1730 hours	16	20	19	15	19
Wind Speed (kmph)	12	12	10	13	13
Wind Direction	248	250	248	248	248

Malvalli

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0.1	0	0	0	0
Max. temp (°C)	37.3	38.2	38.4	39.3	39.3
Min.Temp (°C)	22.7	24.3	24.1	22.8	22.4
Sky condition (Octas)	5	7	4	2	1
Relative humidity (%) 0830 hours	82	76	70	77	75
Relative humidity (%) 1730 hours	17	20	20	17	20
Wind Speed (kmph)	12	14	10	14	14
Wind Direction	244	248	248	248	245

Mandya

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0	0.1	0	0	0
Max. temp (°C)	37.4	38.8	38.1	39.8	40.1
Min.Temp (°C)	23.1	24.5	24.2	23.2	22.8
Sky condition (Octas)	5	7	4	2	2
Relative humidity (%) 0830 hours	82	76	73	75	75
Relative humidity (%) 1730 hours	16	19	17	15	18
Wind Speed (kmph)	13	14	12	15	15
Wind Direction	244	248	248	248	245

Nagamangala

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0.1	0	0	0	0
Max. temp (°C)	37.7	38.5	37.8	39.1	40
Min.Temp (°C)	22.6	23	23.6	22.6	22.7
Sky condition (Octas)	4	6	4	2	1
Relative humidity (%) 0830 hours	82	77	66	71	70
Relative humidity (%) 1730 hours	16	21	16	13	17
Wind Speed (kmph)	12	13	12	14	14
Wind Direction	244	255	244	244	248

Pandavapura

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	36.2	37.6	36.2	38.1	38.9
Min.Temp (°C)	22.1	22.9	23.1	22.1	21.7
Sky condition (Octas)	5	7	5	2	2
Relative humidity (%) 0830 hours	85	80	73	77	77
Relative humidity (%) 1730 hours	17	21	17	15	18
Wind Speed (kmph)	15	13	12	15	14
Wind Direction	248	248	248	250	248

Shrirangapattana

Parameter	01.05.2024	02.05.2024	03.05.2024	04.05.2024	05.05.2024
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	35.6	36.9	36.2	37.8	38.2
Min.Temp (°C)	21.7	22.5	22.6	21.5	21
Sky condition (Octas)	5	7	5	2	2
Relative humidity (%) 0830 hours	83	80	74	78	78
Relative humidity (%) 1730 hours	17	21	19	16	19
Wind Speed (kmph)	16	14	12	15	15
Wind Direction	248	248	248	248	245

- 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 Associate over phone No. 0821-259126/ 9535345814.

AMFU of IMD,
Naganahalli, Mysuru