

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



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



Date: 19-03-2024

AGRO-ADVISORY BULLETIN FOR MYSURU DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data			
Parameter	17.03.2024	18.03.2024	19.03.2024
Rainfall (mm)	0	0	0
Max. Temp. (°C)	35.7	35.8	35.3
Min. Temp. (°C)	-	-	-
Sky condition (Octas)	0	0	0
Relative humidity (%) 0830 hours	55	54	53
Relative humidity (%) 1730 hours	34	36	32
Wind Speed (km/h)	0	0	2
Wind Direction	0	0	200

Weather forecast for the next five days (From 20-03-2024 to 24-03-2024)

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	1	1	0
Max. temp (°C)	36	37	35	34	36
Min.Temp (°C)	17	16	16	16	16
Sky condition (Octas)	1	1	3	3	2
Relative humidity (%) 0830 hours	61	66	81	77	67
Relative humidity (%) 1730 hours	23	23	31	34	24
Wind Speed (kmph)	7	8	9	8	9
Wind Direction	124	162	161	135	135

Forecast Summary

As forecast received from IMD, Partially cloudy sky with very light rainfall may be expected from 20.03.2024 to 24.03.2024 in Mysuru district. The day temperature is expected to be 34-37°C & night temperature is expected 16-17°C. The relative humidity in the morning hours is expected to be 61-81% & afternoon relative humidity is expected to be in the range of 23-34%. Wind speed expected to be 7-9 km/hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
			<ul style="list-style-type: none"> Mulching with crop residues in crop fields will minimize water loss through evapotranspiration. Farmers should provide protective irrigation if rainfall does not occur at the critical stage of crop growth. Take deep summer ploughing after harvesting of Rabi crops, due to overturning of the soil in summer ploughing the sharp rays of sun enters the soil and kills the eggs, larvae and pupae of pests. This avoids the spread of the pests in the next growing season. Due to dry weather prevail for next four days, farmers may take up irrigation to the dry land horticultural crops and other field crops depending on soil and crop condition. 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	<p>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.</p> <p>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.</p>	
Bean	Yellow mosaic virus	<p>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.</p>	
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>	
Banana	Pseudostem 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	<p>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.</p>	
Cowpea/Black gram	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</p>	

		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.
Sugarcane	Trash management	Sugarcane trash can be converted into compost or spread the trash in alternate rows and give irrigation, apply 15 kg urea with 5% cow dung slurry and sprinkle on trash. Application of fluorotous microbes at 5 kg /acre on trash or 1 -1.5 t press mud will enhance the fast degradation of trash.
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		<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 20-03-2024 to 24-03-2024)

H.D. Kote					
Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0.4	0.9	0
Max. temp (°C)	32	33	32	32	32
Min.Temp (°C)	19	18	18	19	19
Sky condition (Octas)	1	0	3	3	2
Relative humidity (%) 0830 hours	70	88	88	73	74

Relative humidity (%) 1730 hours	18	18	20	20	19
Wind Speed (kmph)	9	10	10	10	8
Wind Direction	68	243	203	207	101

Hunsuru

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0.2	0.9	0
Max. temp (°C)	33	33	33	33	33
Min.Temp (°C)	18	17	17	18	18
Sky condition (Octas)	1	0	3	3	2
Relative humidity (%) 0830 hours	71	88	85	73	78
Relative humidity (%) 1730 hours	20	19	22	22	21
Wind Speed (kmph)	9	10	11	10	8
Wind Direction	180	68	203	75	108

K.R. Nagara

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0	0.8	0
Max. temp (°C)	33	34	33	33	33
Min.Temp (°C)	17	17	17	18	18
Sky condition (Octas)	1	0	2	3	2
Relative humidity (%) 0830 hours	66	87	77	71	76
Relative humidity (%) 1730 hours	21	19	25	24	22
Wind Speed (kmph)	8	10	11	10	9
Wind Direction	75	68	154	75	75

Mysuru

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0	0.4	0
Max. temp (°C)	32	32	31	31	32
Min.Temp (°C)	17	17	17	18	18
Sky condition (Octas)	2	0	2	3	2
Relative humidity (%) 0830 hours	54	83	71	60	65
Relative humidity (%) 1730 hours	20	19	26	24	20

Wind Speed (kmph)	10	12	12	11	10
Wind Direction	158	162	191	158	153

Nanjanagudu

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0	0.1	0
Max. temp (°C)	31	31	30	30	31
Min.Temp (°C)	16	17	16	17	17
Sky condition (Octas)	1	0	1	3	2
Relative humidity (%) 0830 hours	51	73	72	58	57
Relative humidity (%) 1730 hours	20	18	25	23	20
Wind Speed (kmph)	11	11	12	12	11
Wind Direction	146	75	124	154	158

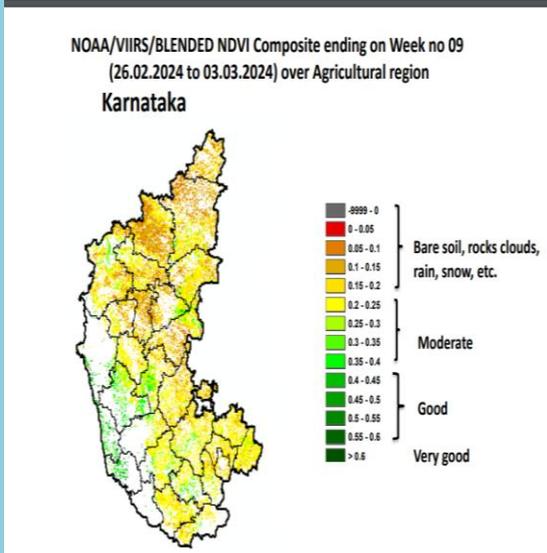
Piriapatna

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0.4	0.4	0
Max. temp (°C)	32	34	33	33	33
Min.Temp (°C)	18	17	17	18	18
Sky condition (Octas)	1	0	3	3	1
Relative humidity (%) 0830 hours	77	86	89	78	82
Relative humidity (%) 1730 hours	23	22	21	23	23
Wind Speed (kmph)	8	8	9	9	8
Wind Direction	60	248	214	285	105

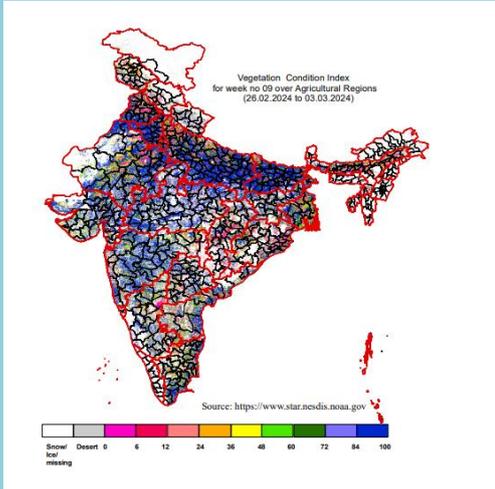
T. Narasipura

Parameter	20.03.2024	21.03.2024	22.03.2024	23.03.2024	24.03.2024
Rainfall (mm)	0	0	0	0	0
Max. temp (°C)	32	32	31	31	32
Min.Temp (°C)	17	18	18	18	19
Sky condition (Octas)	0	0	1	1	1
Relative humidity (%) 0830 hours	51	64	67	58	52
Relative humidity (%) 1730 hours	19	18	25	22	20

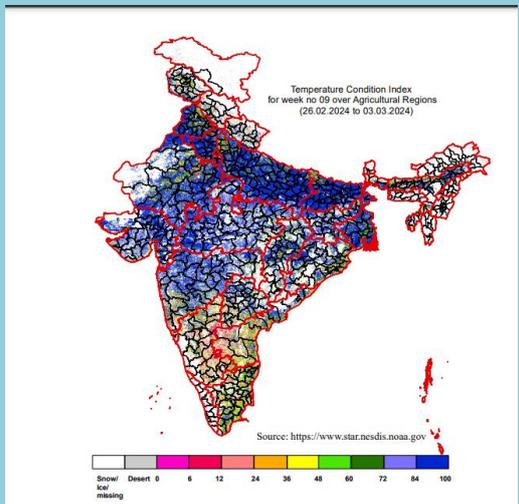
Wind Speed (kmph)	10	10	11	11	11
Wind Direction	153	158	126	153	120



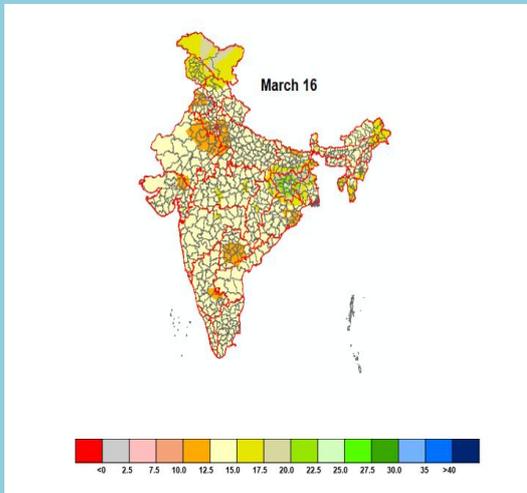
Vegetation Condition Index



Temperature Condition Index



Forecasted soil moisture



Farmers facing high temperatures, low soil moisture and reduced vegetation should prioritize efficient irrigation techniques, such as drip irrigation and implement mulching to conserve moisture and mitigate evaporation. Opting for drought-resistant crops and employing soil conservation methods like cover cropping can help maintain soil health and resilience.

- 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.

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