

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



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



Date: 16-07-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	12.07.2024	13.07.2024	14.07.2024	15.07.2024	16.07.2024
Rainfall (mm)	0	1.1	1.5	6	6.6
Max. Temp. (°C)	31.2	32	30	28.2	26.6
Min. Temp. (°C)	21.7	22.3	22		0
Sky condition (Octas)	8	8	6	8	8
Relative humidity (%) 0830 hours	77	82	74	95	80
Relative humidity (%) 1730 hours	-	84	65	91	91
Wind Speed (km/h)	4	6	4	4	8
Wind Direction	320	140	230	230	230

Weather forecast for the next five days (From 17-07-2024 to 21-07-2024)

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	6	5	5	3	2
Max. temp (°C)	28.2	28.7	28.3	27.1	29.8
Min.Temp (°C)	19.3	19.1	18.9	18.6	19.1
Sky condition (Octas)	7	8	8	8	8
Relative humidity (%) 0830 hours	83	87	89	87	84
Relative humidity (%) 1730 hours	66	67	75	69	60
Wind Speed (kmph)	8	8	8	9	9
Wind Direction	248	248	248	248	248

Forecast Summary

As forecast received from IMD, cloudy sky with **light rainfall** may be expected from 17.07.2024 to 21.07.2024 in Mandya district. The day temperature is expected to be 27.1-29.8°C & night temperature is expected 18.6-19.3°C. The relative humidity in the morning hours is expected to be 84-89% & afternoon relative humidity is expected to be in the range of 60-75% per cent. Wind speed expected to be 8-9 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
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General Advisory

For pulses, treat the seeds with *Rhizobium* culture and fungicides to ensure healthy germination and to protect against soil-borne diseases.

Rhizobium Inoculation: Mix *Rhizobium* culture with the seeds at the rate of 5-7 grams per kilogram of seed to enhance nitrogen fixation and improve growth.

Fungicide Treatment: Treat seeds with Thiram or Carbendazim @ 2 grams per kilogram of seed to prevent fungal diseases.

Crop Management:

1. Field Crops (e.g., Paddy, Maize, Ragi):

- **Water Management:**
 - With light to moderate rainfall (10-12mm), ensure fields are properly irrigated but avoid waterlogging.
 - Implement rainwater harvesting techniques to collect and store excess rainwater for future use.
- **Nutrient Management:**
 - Apply fertilizers based on soil test recommendations. Consider split applications to avoid nutrient leaching due to rainfall.
 - Use organic manures to improve soil fertility and structure.
- **Weed Control:**
 - Light rainfall may encourage weed growth. Use manual weeding or appropriate herbicides to control weeds.
- **Pest and Disease Management:**
 - Monitor for pests such as stem borers in paddy and maize. Use pheromone traps and biological control methods.
 - High humidity can promote fungal diseases. Apply fungicides as needed and maintain field hygiene.

2. Horticultural Crops (e.g., Vegetables, Fruits):

- **Water Management:**
 - Ensure drip irrigation systems are functioning well to provide adequate moisture without waterlogging.
 - Use mulch to conserve soil moisture and regulate soil temperature.
- **Pest and Disease Management:**
 - Regularly inspect crops for signs of pests and diseases. Use integrated pest management (IPM) practices to control infestations.
 - Apply preventive fungicides in high humidity conditions to protect against fungal diseases.
- **Nutrient Management:**
 - Fertilize based on crop needs and soil test results. Use foliar sprays to address micronutrient deficiencies.
 - Ensure proper staking and support for fruit-bearing plants to prevent damage from wind and rain.
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3. Plantation Crops (e.g., Coconut, Arecanut):

- **Water Management:**
 - Ensure adequate irrigation, especially during periods of low rainfall. Maintain soil moisture levels without causing waterlogging.

- **Disease Management:**
 - Monitor for diseases such as bud rot in coconut and root grubs in arecanut. Apply appropriate treatments as needed.
 - Maintain proper spacing and hygiene to reduce disease incidence.
- **Nutrient Management:**
 - Apply fertilizers based on the specific requirements of the plantation crops. Use organic manures to improve soil health.
 - Mulch around the base of the plants to conserve moisture and suppress weed growth.

4. Livestock Management:

- **Shelter and Hygiene:**
 - Ensure proper shelter for livestock to protect them from rain and fluctuating temperatures.
 - Maintain cleanliness in animal shelters to prevent disease outbreaks.
- **Health Management:**
 - Monitor livestock for signs of illness, especially respiratory issues due to high humidity.
 - Provide clean drinking water and balanced nutrition to maintain animal health.

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.
Coconut	Rugose whitefly	✓ 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%
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 17-07-2024 to 21-07-2024)**Krishnarajpet**

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	6.1	9.6	3.3	5.8	2.5
Max. temp (°C)	24.4	27	24.7	25.8	26.5
Min.Temp (°C)	19.6	20.2	19.9	19.5	19.6
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	86	87	87	91	87
Relative humidity (%) 1730 hours	74	66	75	69	65
Wind Speed (kmph)	24	25	23	21	21
Wind Direction	248	248	248	249	248

Maddur

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	3	8	2.1	4.3	3.4
Max. temp (°C)	26.7	28.3	27.3	27.7	27.9
Min.Temp (°C)	20.8	21.6	21.4	21.1	21.1
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	85	86	85	88	85
Relative humidity (%) 1730 hours	64	61	66	62	60
Wind Speed (kmph)	24	22	22	21	19
Wind Direction	248	248	248	249	248

Malvalli

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	5.2	10.7	4	4.8	6.9
Max. temp (°C)	24.8	27.2	25.3	25.9	26.4
Min.Temp (°C)	19.9	20.8	20.5	20.2	20.3
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	84	86	87	87	85
Relative humidity (%) 1730 hours	65	62	71	62	60
Wind Speed (kmph)	27	25	22	21	20
Wind Direction	248	248	248	248	248

Mandya

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	3.1	9.7	1.9	4.6	3.5
Max. temp (°C)	25.5	28.3	26.1	26.6	27
Min.Temp (°C)	20.4	21.3	21	20.6	20.7
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	84	86	86	89	85
Relative humidity (%) 1730 hours	67	62	70	64	61
Wind Speed (kmph)	25	23	22	20	20
Wind Direction	248	248	248	249	248

Nagamangala

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	2.8	3.3	0.3	5.2	0.7
Max. temp (°C)	26.6	28.8	27.1	27.7	28.1
Min.Temp (°C)	20.2	21	20.9	20.3	20.6
Sky condition (Octas)	8	7	8	8	8
Relative humidity (%) 0830 hours	83	83	82	87	81
Relative humidity (%) 1730 hours	69	60	68	64	59
Wind Speed (kmph)	27	28	27	25	24
Wind Direction	248	248	248	248	248

Pandavapura

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	5.1	11.1	3.5	5.1	3.7
Max. temp (°C)	24.8	27.5	25	25.8	26.3
Min.Temp (°C)	19.9	20.7	20.2	19.8	20.1
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	86	88	87	91	88
Relative humidity (%) 1730 hours	71	65	75	68	65
Wind Speed (kmph)	25	25	22	20	20
Wind Direction	248	248	248	249	248

Shrirangapattana

Parameter	17.07.2024	18.07.2024	19.07.2024	20.07.2024	21.07.2024
Rainfall (mm)	5.7	12.7	6	4.7	5.7
Max. temp (°C)	24.3	27.2	24.1	25.4	24.3
Min.Temp (°C)	19.5	20.3	19.8	19.5	19.5
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	86	88	88	90	86
Relative humidity (%) 1730 hours	71	64	77	67	71
Wind Speed (kmph)	26	25	22	21	26
Wind Direction	248	248	248	249	248

- 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.

**AMFU of IMD,
Naganahalli, Mysuru**