

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



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



Date:20-12-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	17.12.2024	18.12.2024	19.12.2024	20.12.2024
Rainfall (mm)	0	0	0	0
Max. Temp. (°C)	29.8	30	30.6	30.6
Min. Temp. (°C)	12.8	16.4	18	19.9
Sky condition (Octas)	4	4	6	8
Relative humidity (%) 0830 hours	90	86	95	86
Relative humidity (%) 1730 hours	60	64	64	58
Wind Speed (km/h)	6	4	4	4
Wind Direction	360	50	360	50

Weather forecast for the next five days (From 21-12-2024 to 25-12-2024)

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1	1
Max. temp (°C)	28.2	28.7	28.1	27	27.5
Min.Temp (°C)	19.6	19.2	19.4	18.7	18.4
Sky condition (Octas)	6	6	6	5	4
Relative humidity (%) 0830 hours	90	86	87	88	87
Relative humidity (%) 1730 hours	54	46	46	49	49
Wind Speed (kmph)	3.5	4.4	2.6	3.7	5.8
Wind Direction	294	280	254	119	86

Forecast Summary

As forecast received from IMD, cloudy sky with **very light rainfall** may be expected from 21.12.2024 to 25.12.2024 in Mandya district. The day temperature is expected to be 27°C and 28.7°C & night temperature is expected to be 18.4°C and 19.6°C. The relative humidity in the morning hours is expected to be 86% to 90% & afternoon relative humidity is expected to be in the range of 46% - 54% Wind speed expected to be 2.6-5.8 km/ hr.

SMS Advisory

- Complete harvesting of paddy and millets early and dry grains thoroughly to prevent spoilage.
- Avoid leaving harvested produce in the field; store under proper cover to prevent rain damage.

Recommendations to the farmers:-

Crop	Pest/Disease	Damage symptoms	Control measures
General Advisory:			
<ul style="list-style-type: none">• Fungal Diseases: High humidity can increase fungal infections. Use bio-fungicides like Trichoderma or appropriate chemical sprays for crops at risk.• Pest Monitoring: Install yellow and pheromone traps for crops like red gram, beans, and tomato to monitor pest activity.• Nutrient Management: Apply foliar sprays of micronutrients where nutrient deficiency symptoms appear, especially in horticultural crops.			

Weather based advisory

Crop	Stage	Advisory
Paddy	Harvest stage	Complete harvesting in dry conditions before 24th to avoid light rain damage. Dry harvested grains immediately to prevent fungal infections.
Millets	Harvest stage	Harvest mature crops and store in a dry place. Thresh grains promptly to reduce losses from light rain and high humidity.
Maize	Flowering/Harvest	Apply light irrigation if needed during flowering; for mature crops, complete harvest early to avoid quality loss due to rains.
Tomato	Vegetative stage	Ensure timely nutrient application to boost growth. Monitor for leaf curl virus and aphids; spray neem oil or recommended insecticides if needed.
Cabbage, Cauliflower	Head formation stage	Protect heads from pests like diamondback moth and aphids using safe insecticides or neem-based sprays. Ensure light irrigation to maintain soil moisture.
Bean, Field Bean	Pod formation stage	Stake plants to prevent lodging from moderate winds. Spray bio-pesticides to control pod borer infestation.
Red Gram	Pod development stage	Install pheromone traps to monitor pod borer. Lightly irrigate to maintain soil moisture if no rains occur before 24th.
Chilli	Vegetative/Fruit development	Apply micronutrient sprays for fruit development. Monitor for thrips and fruit rot; apply organic treatments as needed.
Banana	Fruit development stage	Provide staking for plants to prevent lodging. Apply potassium-based fertilizers to enhance fruit quality.
Horticultural Crops	Various stages	Regularly monitor for pest infestations like aphids, thrips, and fungal infections; ensure adequate nutrient supply.
Livestock specific advisory		
Livestock	-	Provide clean water and balanced feed. Supplement with mineral mixtures to maintain health. Vaccinate against common winter diseases like FMD, HS, and BQ. Keep shelters dry and insulated to prevent cold stress. Treat any illnesses promptly with veterinary assistance.
Poultry	-	Maintain warm, dry litter in sheds. Protect birds from cold with proper insulation and lighting. Provide clean water and

balanced feed with vitamins to boost immunity during winter.

Recommendation to farmers

Crop specific advisory:

Crop	Stage	Advisory
Cabbage diamond back moth	Head stage	<ul style="list-style-type: none"> • Spray DDVP 76 EC. @0.5 ml./lit water in nursery. • 15 days before transplanting around the main field and every 25 rows of cabbage one row of mustard sowing, 15 to 20 days after cabbage planting another row of mustard sowing. Mustard as trap crop. Spray on mustard with 0.5 ml. DDVP in a lit. water. • During head formation, spray 5 per cent NSKE . • Birdpurches may be provided to attract predatory birds.
Tomato whiteflies	Fruiting stage	Spray 1.0ml.Oxydemeton methyl 25 EC in a lit. water.
Bean Pod borer	Pod formation stage	Spray 2.0 ml. Malathion 50 EC./ lit. water .
Tomato Early and late blight of tomato	Fruiting stage	<p>For late blight of tomato 15 days prior to transplanting Trichoderma and Pseudomonas enriched compost may be incorporated to the soil. For early blight control spray 2.0 g. Mancozeb 75 WP</p> <p>OR</p> <p>2.0 g. Maneb</p> <p>OR</p> <p>2.0 g. Metalaxyl- MZ 72WP.</p> <p>OR</p> <p>2.0 g. Dimethomorph + polyram/lit. water.</p> <p>For control of late blight spray 2.0 g. Metalaxyl - MZ 72WP.</p> <p>OR</p> <p>2.0 g. Fosetyl al 80 WP</p> <p>OR</p> <p>2.0 g. Dimethomorph + polyram in a lit. water, 5 weeks after transplanting. Repeat the spray 7th, 9th and 11th weeks after transplanting. 200- 250 lit. spray solution required/acre/spray.</p>
Rice earhead bug	Hard dough stage	<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>
Red gram Sterility mosaic	Pod initiation stage	<p>Pull out the infested plants and destroy.</p> <p>20 - 25, 40 - 45 days after sowing spray 2.5 ml. Dicofol 18.5 EC./lit. water.</p> <p>ICP 7035 sterility mosaic resistant red gram variety.</p>
Banana Leaf spot (Cigatoka)	Fruit development	<p>In endemic areas grow resistant banana variety - Sakkare bale. At the time of planting the rhizomes may treated with any one of the Fungicides /lit. water</p> <p>a)Propiconazole 25 EC.- 1.0 ml.</p> <p>b)Theiophenate methyl 70 Wdiv.- 1.0 g.</p> <p>c)Carbendazim 50 Wdiv.- 1.0 g.</p> <p>d)Metham Sodium (Vapom) - 1.0 g.</p> <p>In Mashy area provide drainage.</p>

Field bean pod borer	Pod development	Dust 10 kg. Fenvalrate 0.4 D. OR Malathion 5 D. per acre during morning hours.
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Block level weather forecast (From 21-12-2024 to 25-12-2024)					
Krishnarajpet					
Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.2	1.4
Max. temp (°C)	28.8	28.8	27.9	27.1	26.7
Min.Temp (°C)	19.2	18.8	18.5	18.2	18.6
Sky condition (Octas)	3	4	3	5	4
Relative humidity (%) 0830 hours	88.5	86.5	88.7	93.2	89.1
Relative humidity (%) 1730 hours	40.6	39.2	41.2	51.8	52.9
Wind Speed (kmph)	5.8	5.2	4.4	4	0.8
Wind Direction	330.3	294.8	279.5	280.3	296.6

Maddur					
Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.4	1.4
Max. temp (°C)	29.6	29.7	29.5	28	27.4
Min.Temp (°C)	19.9	19.5	19.2	19	19.4
Sky condition (Octas)	5	5	3	5	5
Relative humidity (%) 0830 hours	86.8	87.8	89.5	95.1	92.5
Relative humidity (%) 1730 hours	44.8	42.3	41.6	50.8	56
Wind Speed (kmph)	3.6	2.9	2.9	2.2	1
Wind Direction	306.9	262.9	240.2	279.5	225

Malvalli					
Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.2	2.1
Max. temp (°C)	29.7	29.7	29.7	28	27.5
Min.Temp (°C)	20.2	19.9	19.7	19.2	19.5
Sky condition (Octas)	4	5	3	5	5
Relative humidity (%) 0830 hours	89.4	90.2	91	94.6	92.4
Relative humidity (%) 1730 hours	44	41.2	41.6	51.2	54.7
Wind Speed (kmph)	3.3	4.3	3.9	2.5	1.3
Wind Direction	263.7	245.5	236.3	278.1	236.3

Mandya

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.4	1.8
Max. temp (°C)	29.6	29.4	29	27.8	27.1
Min.Temp (°C)	19.7	19.2	19.1	19	19.1
Sky condition (Octas)	4	5	4	5	5
Relative humidity (%) 0830 hours	86.4	84.2	85.9	94	89.4
Relative humidity (%) 1730 hours	43.6	41.5	41.5	49.8	55.5
Wind Speed (kmph)	3.6	4.4	4.4	3.7	1.1
Wind Direction	315	279.5	260.5	281.3	251.6

Nagamangala

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	2	2.7
Max. temp (°C)	28.6	28.8	28.2	27.1	26.4
Min.Temp (°C)	19.1	18.8	18.6	18.5	18.5
Sky condition (Octas)	4	4	3	4	5
Relative humidity (%) 0830 hours	87.5	83.9	80.7	91.8	89.3
Relative humidity (%) 1730 hours	43.4	39.7	40.3	49.1	57.1
Wind Speed (kmph)	5.7	3.8	2.5	2.2	0.5
Wind Direction	325.3	311.2	278.1	279.5	135

Pandavapura

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.4	1.9
Max. temp (°C)	29.2	29.1	29	27.6	27.1
Min.Temp (°C)	19.7	19.2	19.1	18.9	18.9
Sky condition (Octas)	4	5	4	5	5
Relative humidity (%) 0830 hours	86.5	86.7	87.3	93.6	90.7
Relative humidity (%) 1730 hours	42	40.2	40.2	50.2	54.7
Wind Speed (kmph)	3.6	4.7	5.4	3.7	1.4
Wind Direction	315	278.8	262.4	281.3	0

Shrirangapattana

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.4	1.9
Max. temp (°C)	29.4	29.2	29.1	27.8	27.4
Min.Temp (°C)	20.1	19.7	19.2	18.9	19
Sky condition (Octas)	4	5	4	5	4
Relative humidity (%) 0830 hours	87.3	87	90.2	93.7	92.6
Relative humidity (%) 1730 hours	42.1	40.5	42.2	50.8	54.2
Wind Speed (kmph)	3.6	5.1	4.7	3.2	1.1
Wind Direction	306.9	274.1	261.2	0	251.6

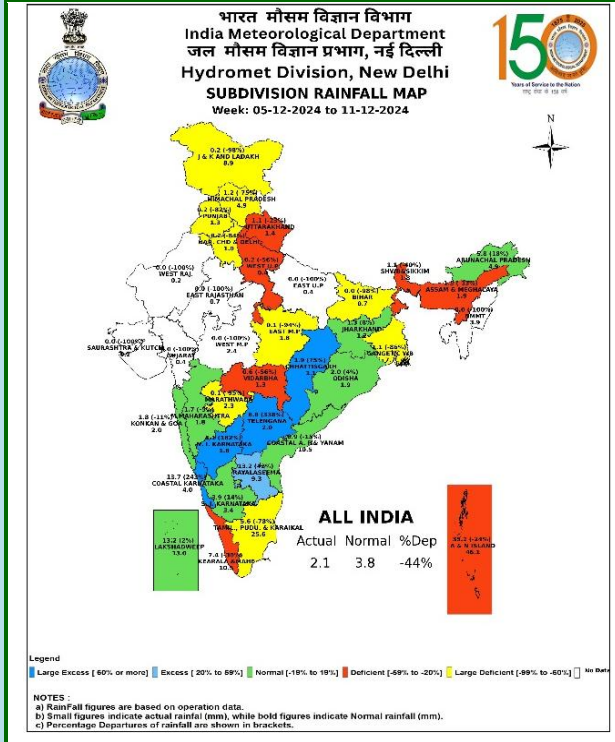
- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “**MAUSAM**” APP for location specific forecast & warning & “**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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.

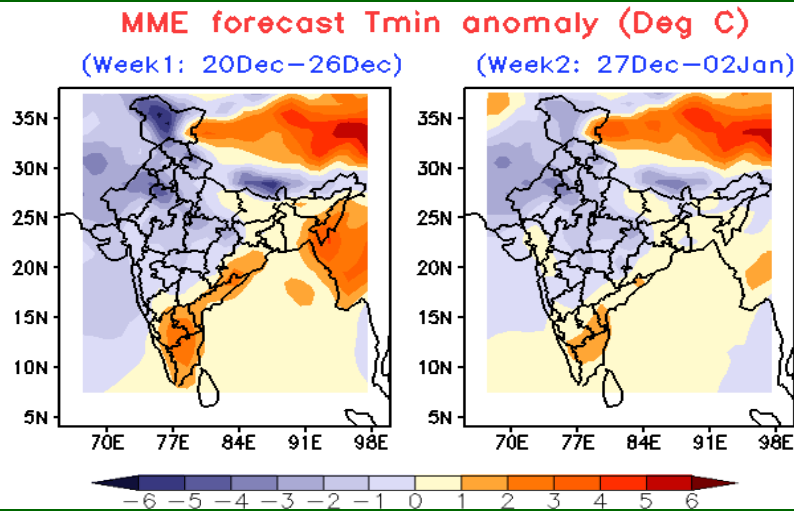
AMFU of IMD, Naganahalli, Mysuru

वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान
Realized Rainfall and Extended Range Forecast
 (वर्षा और तापमान)
 (Rainfall and Temperature)

Realized Rainfall
 (05th to 18th December, 2024)



over most of the country. However, it is likely to be above normal over some parts of East India and North East India.



Minimum Temperature (Tmin)

- **Week 1 (20.12.2024 to 26.12.2024):** Minimum temperature is likely to be below normal over North West India, Central India and West India. It is likely to be above normal over South India, East India and North East India.
- **Week 2 (27.12.2024 to 02.01.2025):** Minimum temperature is likely to be below normal over North West India, Central India and most parts of West India and above normal over South India.