UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

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AMFU, OFRS, NAGANAHALLI,
MYSURU - 570003

Date:24-12-2024

AGRO-ADVISORY BULLETIN FOR MYSURU DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024
Rainfall (mm)	0	0	0	0
Max. Temp. (°C)	31.5	31	31	29
Min. Temp. (°C)	20.6	19.5	20	17.2
Sky condition (Octas)	7	0	6	5
Relative humidity (%) 0830 hours	79	72	81	88
Relative humidity (%) 1730 hours	-	85	-	-
Wind Speed (km/h)	2	0	0	2
Wind Direction	230	0	0	230

Weather forecast for the next five days (From 25-12-2024 to 29-12-2024)

Parameter	25.12.2024	26.12.2024	27.12.2024	28.12.2024	29.12.2024
Rainfall (mm)	0	0	2	1	0
Max. temp (°C)	27.8	27.8	27.6	27.6	28
Min.Temp (°C)	16	16	15	15	15
Sky condition (Octas)	3	2	3	3	2
Relative humidity (%) 0830 hours	95	90	90	92	97
Relative humidity (%) 1730 hours	52	50	52	50	53
Wind Speed (kmph)	1.8	2.4	7.9	11.9	10.7
Wind Direction	0	27	66	76	70

Forecast Summary

As forecast received from IMD, partially cloudy sky with very light rainfall may be expected from 25.12.2024 to 29.12.2024 in Mysuru district. The day temperature is expected to be 27.6°C and 28°C & night temperature is expected 15°C and 16°C. The relative humidity in the morning hours is expected to be 90% - 97% & afternoon relative humidity is expected to be in the range of 50% to 53%. Wind speed expected to be 1.8-11.9 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:			
• **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 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.
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	• 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	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 OR 2.0 g. Maneb OR 2.0 g. Metalaxyl- MZ 72WP. OR 2.0 g. Dimethomorph + polyram/lit. water. For control of late blight spray 2.0 g. Metalaxyl - MZ 72WP. OR 2.0 g. Fosetyl al 80 WP OR 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.
Rice earhead bug	Hard dough stage	> During milky stage of the crop; spray Malathion 50 EC. at 2.0 ml./lit. of water . **OR** > Dust 8 - 10 kg. Malathion 5 D./acre during morning hours.
Rice Brown plant hoppers	Hard dough stage	Spray any one of the following insecticides per lit. water 1) Imidacloprid 17.8 SL.- 0.5 ml. 2) Thiamethoxam 25 WG.- 0.7 g. 3) Monocrotophos 36 SL.- 1.5ml 4) Chlorpyriphos 20 EC.- 2.0 ml. 5) Buprofezin 25 EC.- 1.4ml. > Spray solution should reach the base of the plant.

		> Around 400 to 450 lit. spray solution required/acre. Granular insecticide kg./ac 1) Carbofuran 3 G- 8.0 2) Phorate 10 G- 5.0 3) Quinalphos 5 G - 12.0 N.B: Drain out the water and apply granules. Two days after application light irrigation may be provided.
Red gram Sterility mosaic	Pod initiation stage	Pull out the infested plants and destroy. 20 - 25, 40 - 45 days after sowing spray 2.5 ml. Dicofol 18.5 EC./lit. water. ICP 7035 sterility mosaic resistant red gram variety.
Banana Leaf spot (Cigatoka)	Fruit development	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 a)Propiconozole 25 EC.- 1.0 ml. b)Theiophenate methyl 70 Wdiv.- 1.0 g. c)Carbendazim 50 Wdiv.- 1.0 g. d)Metham Sodium (Vapom) - 1.0 g. In Mashy area provide drainage.
Field bean pod borer	Pod development	Dust 10 kg. Fenvalrate 0.4 D. OR Malathion 5 D. per acre during morning hours.
Ginger Rhizome rot	Harvesting stage	2.0 g. Metalaxyl - MZ 72Wdiv. in a lit. water. Before store of seed material soak them in 3.0 g. Mancozeb 75 Wdiv. in a lit. water for 30 min then dry in shade and store.

Block level weather forecast (From 25-12-2024 to 29-12-2024)

H.D. Kote					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	0.8	0.8	0
Max. temp (°C)	28.2	28.1	27.9	28.4	28.4
Min.Temp (°C)	17.9	18.7	18.9	19.1	17.8
Sky condition (Octas)	3	2	4	3	1
Relative humidity (%) 0830 hours	96.8	90.8	91.6	97.6	97.5
Relative humidity (%) 1730 hours	53.2	48.8	52.5	48.4	51.8
Wind Speed (kmph)	1.8	2.5	7.7	9.8	8.5
Wind Direction	281.3	351.9	48.8	61.5	53.6

Hunsuru					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	0.9	0.9	0
Max. temp (°C)	27.8	27.6	27.1	27.7	27.7
Min.Temp (°C)	17.9	18.4	18.8	19	17.7
Sky condition (Octas)	2	2	4	3	1
Relative humidity (%) 0830 hours	94.3	87.8	90.4	94.7	95.6
Relative humidity (%) 1730 hours	51.1	47.1	53.4	50.2	51.8
Wind Speed (kmph)	2.8	5.1	9.9	13.3	10.3
Wind Direction	320.2	4	56.9	77.5	65.2

K.R. Nagara					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	0.9	0.9	0
Max. temp (°C)	27.6	27.5	26.9	27.4	27.5
Min.Temp (°C)	18.1	18.7	19.1	19	17.8
Sky condition (Octas)	2	2	4	3	1
Relative humidity (%) 0830 hours	94.4	87.8	91.1	94.8	95.5
Relative humidity (%) 1730 hours	50.7	47.9	54.1	50.4	51.4
Wind Speed (kmph)	3.3	4.7	10.3	14	10.4
Wind Direction	319.4	4.4	60.7	78.1	69.7

Mysuru					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	1.8	1.8	0
Max. temp (°C)	28.1	27.9	27.2	27.7	27.9
Min.Temp (°C)	18.7	19	19.5	19.2	18.2
Sky condition (Octas)	3	2	4	3	1
Relative humidity (%) 0830 hours	96	91.4	91.5	97.6	97.9
Relative humidity (%) 1730 hours	54	51.9	56.1	52.4	52.7
Wind Speed (kmph)	3.5	3.8	10.2	12.8	11.1
Wind Direction	294	16.7	58	73.6	65.1

Nanjanagudu					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	1.1	1.2	0
Max. temp (°C)	28.6	27.9	27.8	28.5	28.6
Min.Temp (°C)	18.8	19.2	19.5	19.6	18.2
Sky condition (Octas)	3	2	3	2	1
Relative humidity (%) 0830 hours	95.3	91.5	91.2	97.5	96.9
Relative humidity (%) 1730 hours	54	53.5	56.3	52.5	54.5
Wind Speed (kmph)	3.6	2.2	6.2	9.1	7.1
Wind Direction	264.3	279.5	54.4	71.6	66

Piriapatna					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	1	0	0
Max. temp (°C)	27.2	27.4	26.8	27.1	27.4
Min.Temp (°C)	17.1	17.9	18.2	18.6	17.1
Sky condition (Octas)	3	3	5	5	1
Relative humidity (%) 0830 hours	95	89.3	89.7	96	96.6
Relative humidity (%) 1730 hours	52.1	46.5	54.1	52.5	52.7
Wind Speed (kmph)	2.6	4.4	8.4	11.7	10
Wind Direction	326.3	9.4	59	79.4	69

T. Narasipura					
Parameter	**25.12.2024**	**26.12.2024**	**27.12.2024**	**28.12.2024**	**29.12.2024**
Rainfall (mm)	0	0	2.3	1.4	0
Max. temp (°C)	28.5	28.1	27.9	27.9	28.2
Min.Temp (°C)	19	19.2	19.5	19.7	18.2
Sky condition (Octas)	3	2	4	2	0
Relative humidity (%) 0830 hours	93.8	89.3	88.3	97.8	96.4
Relative humidity (%) 1730 hours	53	51.2	53.7	51.1	51.9
Wind Speed (kmph)	3.6	1.3	8.2	9.9	8.4
Wind Direction	0	326.3	61.2	70.9	64.5

- 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

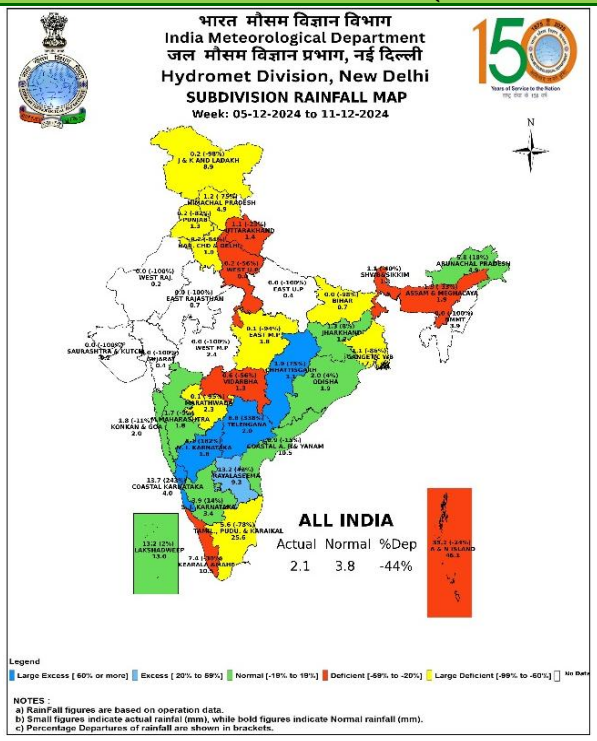
For any information farmers can contact **Dr.C.Ramachandra**, Senior Farm Superintendent/ **Dr. Sumanth Kumar.G.V**, Technical officer over phone No.0821-259126/ 9535345814.

AMFU of IMD,
Naganahalli, Mysuru

वास्तविकवर्षातथाविस्तारितअवधिपूर्वानुमान
Realized Rainfall and Extended Range Forecast
(वर्षाऔरतापमान)
(Rainfall and Temperature)

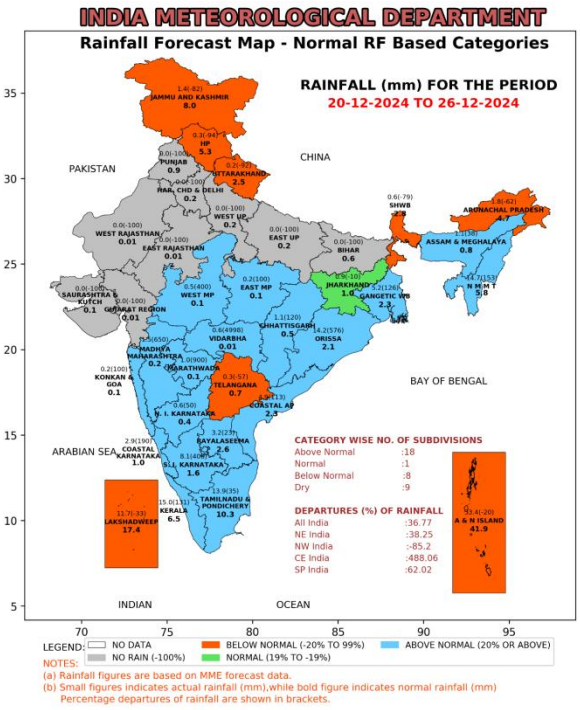
Realized Rainfall

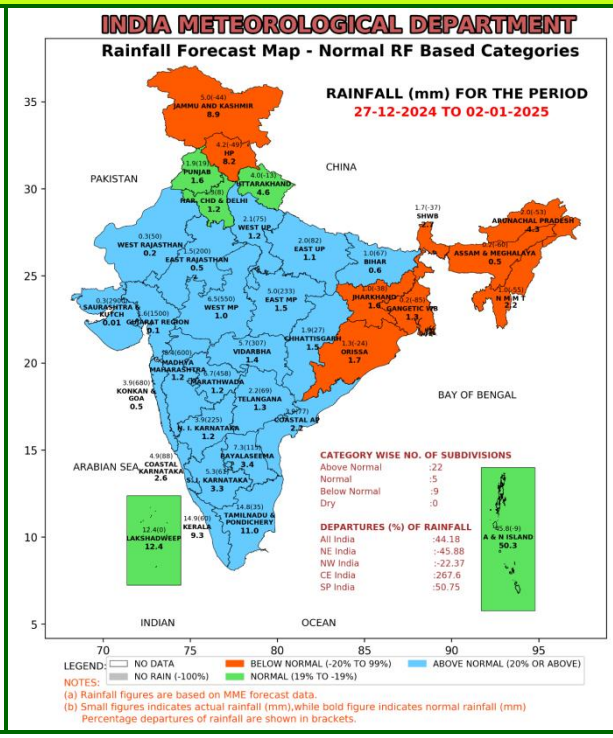
(05th to 18th December,2024)



Extended Range Forecast System

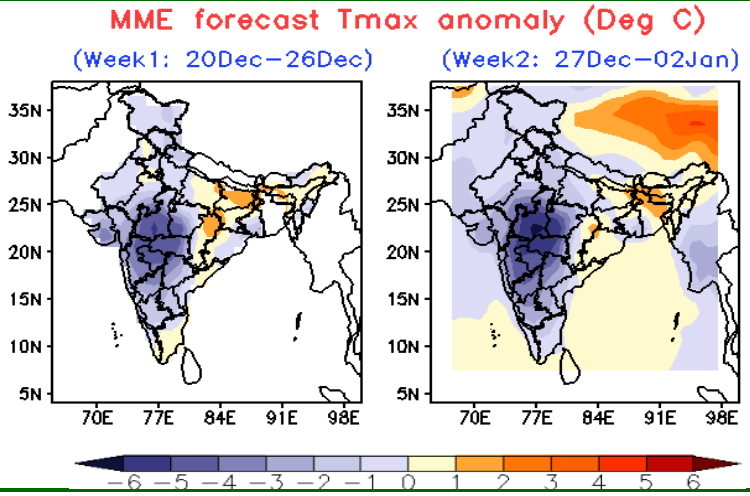
Rainfall forecast maps for the next 2 weeks (IC- 18th December,2024)
(20thDecember, 2024to 02nd January, 2025)





- **Week1(20.12.2024 to 26.12.2024):**Rainfall is likely to be above normal over Kerala, coastal Andhra Pradesh, coastal Odisha and some parts of Tamil Nadu and South Interior Karnataka.
- **Week 2 (27.12.2024 to 02.01.2025):**Rainfall is likely to be above normal over some parts of Maharashtra and West Madhya Pradesh and close to normal over rest of the country.

Maximum and Minimum temperature anomaly (˚C) forecast
for the next 2 weeks (IC- 18th December,2024)
(20th December, 2024to 02nd January, 2025)

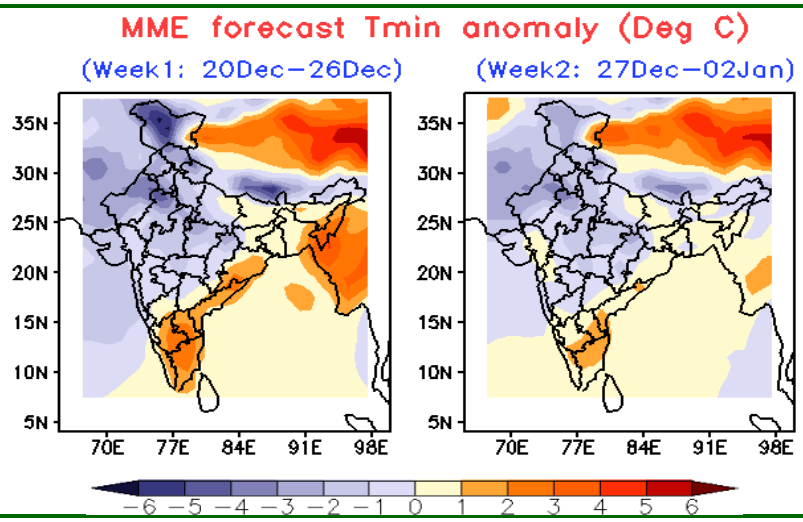


Maximum Temperature (Tmax)

- **Week 1 (20.12.2024 to 26.12.2024):**Maximum temperature is likely to be below normal

over Central India, many parts of NorthWest India, West India and some parts of South India. However, it is likely to be above normal over Chhattisgarh, Bihar, East Uttar Pradesh and some parts of North East India.

- **Week 2 (27.12.2024 to 02.01.2025):**Maximum temperature is likely to be below normal 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.