

**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 CHAMARAJANAGARA 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)	29.5	30.8	30.1	30.8
Min. Temp. (°C)	11.5	15.7	18.5	20.6
Sky condition (Octas)	-	-	-	-
Relative humidity (%) 0830 hours	97	97	97	94
Relative humidity (%) 1730 hours	-	-	-	-
Wind Speed (km/h)	-	-	-	-
Wind Direction	-	-	-	-

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)	27.6	28	27.7	26.4	26.7
Min. Temp. (°C)	19.4	19.2	18.8	18.8	18.4
Sky condition (Octas)	6	6	5	5	4
Relative humidity (%) 0830 hours	91	85	89	90	90
Relative humidity (%) 1730 hours	58	51	52	53	55
Wind Speed (kmph)	2.2	1.3	0.5	3.6	3.1
Wind Direction	0	236	225	143	126

Forecast Summary

As forecast received from IMD, partially cloudy sky with **very light rainfall** may be expected from 21.12.2024 to 25.12.2024 in Chamarajanagara district. The day temperature is expected to be 26.4°C to 28°C & night temperature is expected 18.4°C to 19.4°C. The relative humidity in the morning hours is expected to be 85% to 91% & afternoon relative humidity is expected to be in the range of 51-58 %. Wind speed expected to be 0.5-3.6 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	<p>Dust 10 kg. Fenvalrate 0.4 D.</p> <p>OR</p> <p>Malathion 5 D. per acre during morning hours.</p>
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 21-12-2024 to 25-12-2024)**Chamarajanagara**

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	0.8	1.3
Max. temp (°C)	28.2	28.4	27.9	27.1	26.6
Min.Temp (°C)	18.6	18.4	18.2	17.7	17.7
Sky condition (Octas)	4	4	5	4	4
Relative humidity (%) 0830 hours	90.9	97.6	97.5	96.3	91.3
Relative humidity (%) 1730 hours	48	46.7	56.6	56.5	58.6
Wind Speed (kmph)	2.4	1.9	2.3	1.3	1.6
Wind Direction	296.6	291.8	308.7	146.3	116.6

Gundlupete

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	0.6	1.4
Max. temp (°C)	28.2	28.2	27.6	27.1	26.7
Min.Temp (°C)	18.4	18.2	17.9	17.2	17.5
Sky condition (Octas)	4	4	4	5	4
Relative humidity (%) 0830 hours	86.4	93.2	93.7	93.6	87.6
Relative humidity (%) 1730 hours	48.6	46.8	56.7	55.3	57.6
Wind Speed (kmph)	2.5	3	1	1.8	1.1
Wind Direction	261.9	256	225	191.3	198.4

Kollegala

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.4	3.1
Max. temp (°C)	29.2	29.4	29.1	27.6	27.1
Min.Temp (°C)	19.8	19.4	19.2	18.9	19.1
Sky condition (Octas)	4	4	4	4	5
Relative humidity (%) 0830 hours	90	95.8	94.1	91.5	87.8
Relative humidity (%) 1730 hours	46.5	43.2	46.1	55.8	57.4
Wind Speed (kmph)	3.2	3.3	2.9	1.5	0.5
Wind Direction	243.4	220.6	262.9	256	225

Yelandur

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.2	3.3
Max. temp (°C)	29	29.2	28.9	27.5	27
Min.Temp (°C)	19.6	19.1	19	18.6	18.8
Sky condition (Octas)	4	4	5	4	5
Relative humidity (%) 0830 hours	90.8	96.8	95.6	93.2	89.9
Relative humidity (%) 1730 hours	48	44.8	50.1	56.7	59.3
Wind Speed (kmph)	2.7	3.1	2.5	0.8	0.4
Wind Direction	246.8	225	0	243.4	90

Hanur

Parameter	21.12.2024	22.12.2024	23.12.2024	24.12.2024	25.12.2024
Rainfall (mm)	0	0	0	1.8	6.4
Max. temp (°C)	28	28.4	27.8	26	25.7
Min.Temp (°C)	18.8	18.2	18.2	18.2	18.5
Sky condition (Octas)	5	4	6	5	5
Relative humidity (%) 0830 hours	89.5	97.5	95.8	93.2	89.4
Relative humidity (%) 1730 hours	51.2	47.6	52.3	60.5	64.6
Wind Speed (kmph)	3.7	3.9	1.8	1.3	0.8
Wind Direction	258.7	248.2	0	213.7	153.5

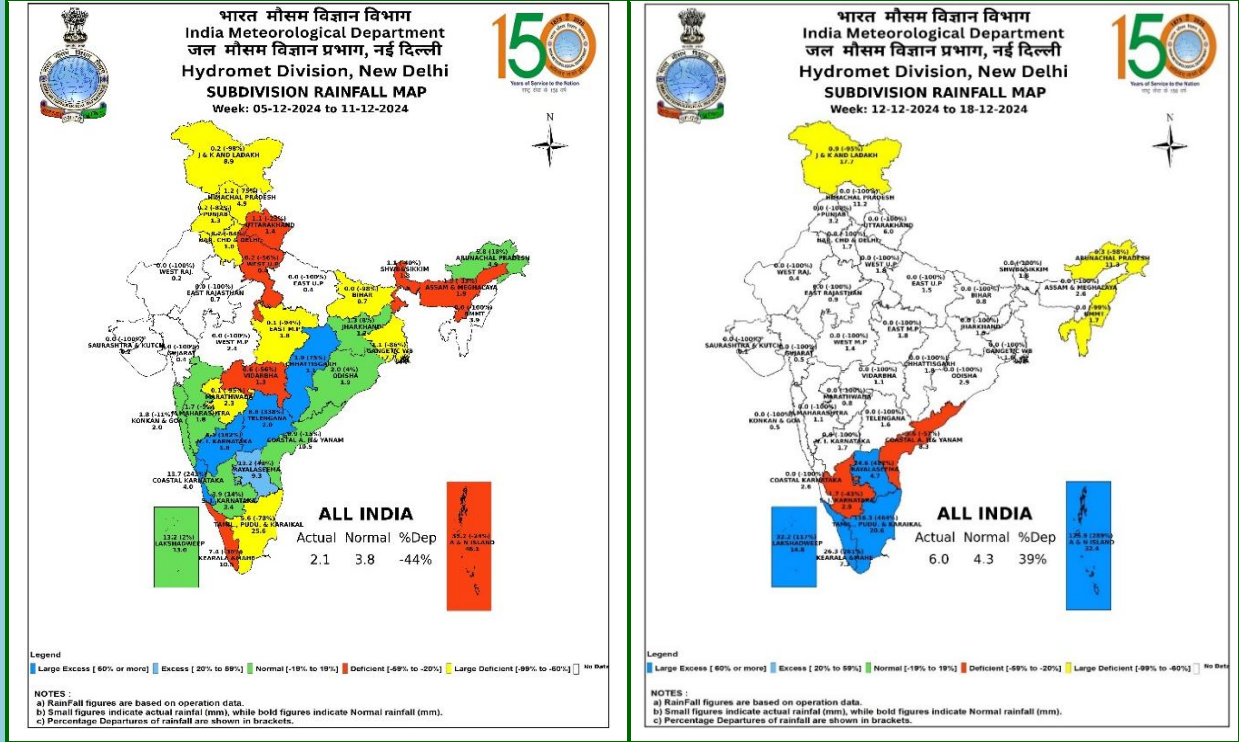
- Download “DAMINI” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download”MAUSAM” APP for location specific forecast & warning &“MEGHDOOT” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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**

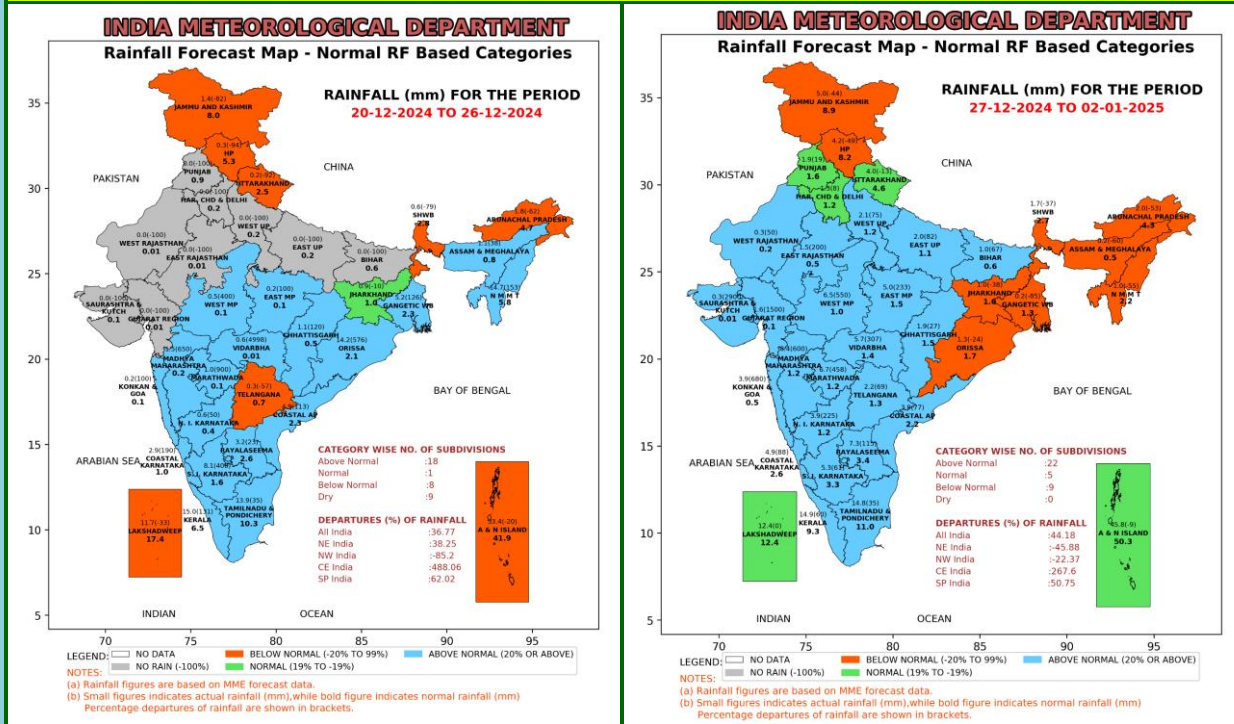
वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान
Realized Rainfall and Extended Range Forecast
 (वर्षा और तापमान)
 (Rainfall and Temperature)

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



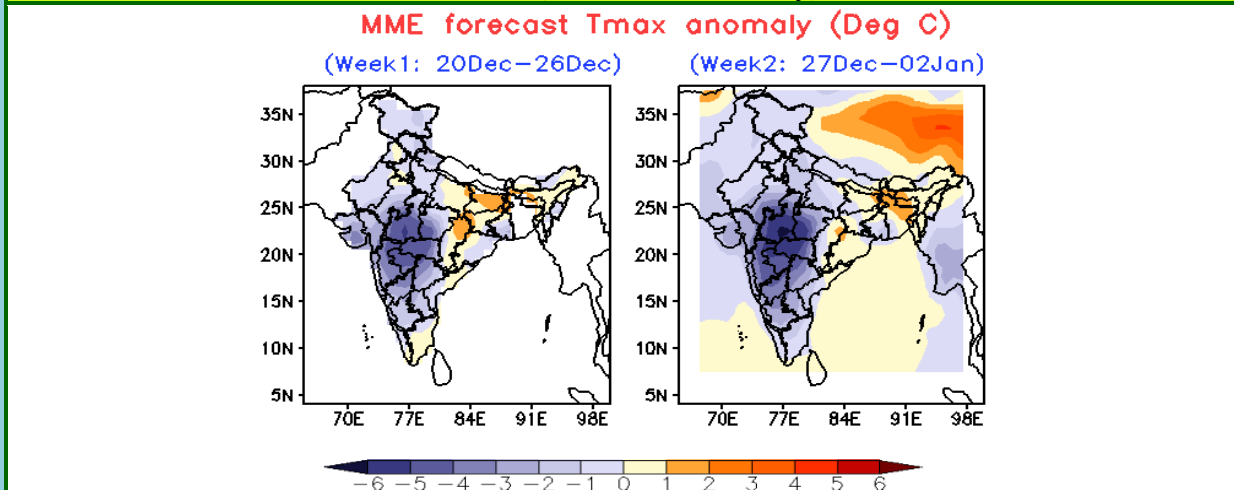
Extended Range Forecast System

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.

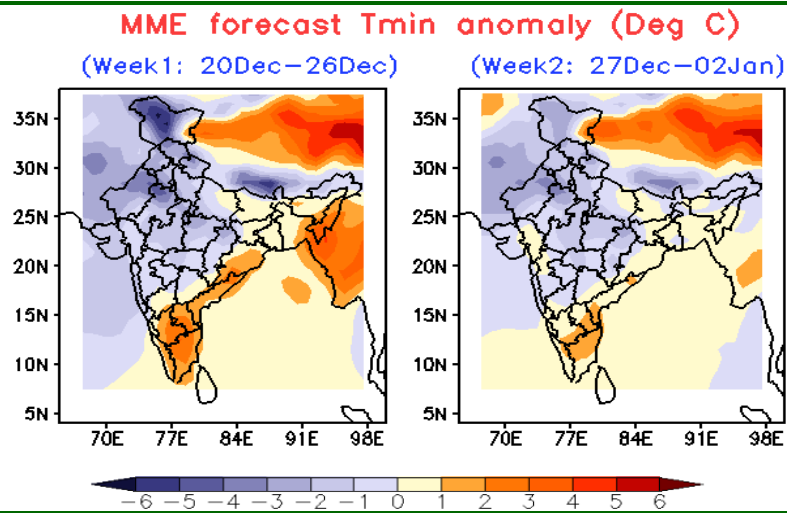
Maximum and Minimum temperature anomaly (°C) forecast for the next 2 weeks (IC- 18th December,2024) (20th December, 2024to 02nd January, 2025)



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.