UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

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

Date: 18-03-2025

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	15.03.2025	16.03.2025	17.03.2025	18.03.2025
Rainfall (mm)	0	0	0	0
Max. Temp. (°C)	37.1	36.5	36.4	35.7
Min. Temp. (°C)	15.6	16	22.1	19.2
Sky condition (Octas)	-	-	-	-
Relative humidity (%) 0830 hours	86	80	74	83
Relative humidity (%) 1730 hours	-	-	38	-
Wind Speed (km/h)	-	-	-	-
Wind Direction	-	-	-	-

Weather forecast for the next five days (From 19-03-2025 to 23-03-2025)

Parameter	19.03.2025	20.03.2025	21.03.2025	22.03.2025	23.03.2025
Rainfall (mm)	0	0	0	0	1
Max. Temp. (°C)	36	36	36	36	37
Min.Temp. (°C)	19	19	19	20	20
Sky condition (Octas)	2	3	2	3	3
Relative humidity (%) 0830 hours	76	79	82	78	78
Relative humidity (%) 1730 hours	34	32	31	33	32
Wind Speed (kmph)	4	4	4	4	4
Wind Direction	154	156	162	158	156

Forecast Summary

As forecast received from IMD, partially cloudy sky with very light rainfall may be expected from 19.03.2025 to 23.03.2025 in Chamarajanagara district. The day temperature is expected to be 36-37°C & night temperature is expected 19-20°C. The relative humidity in the morning hours is expected to be 76-82% & afternoon relative humidity is expected to be in the range of 31-34 %. Wind speed expected to be 4 km/ hr.

SMS Advisory

A forecasted temperature for the next five days is 35°C. Farmers should irrigate crops adequately and use mulching to conserve soil moisture. Provide shade and sufficient drinking water for livestock to prevent heat stress. Very light rainfall aids in minimizing heat-related damage for crops.

Recommendations to the farmers:-			
Crop	**Pest/Disease**	**Damage symptoms**	**Control measures**
General Advisory:			

- **Very light rainfall** will retain soil moisture, despite providing **irrigation at proper intervals is essential** to prevent drought stress.
- **Mulching** with straw, dry leaves, or plastic mulch will help retain soil moisture and reduce evaporation losses.
- **Pest and Disease Monitoring**: Dry conditions favor **thrips, mites, aphids**, and other sucking pests—regularly monitor crops and use biological or recommended chemical controls if necessary.
- **Drip Irrigation or Sprinkler System**: Efficient water management through **drip or sprinkler irrigation** is advised to optimize water usage.
- **For harvested Crops**: Proper drying and **moisture management** should be ensured before storage to **prevent fungal and insect infestations**.

Weather based advisory		
Crop	**Stage**	**Advisory**
Paddy	Nursery to transplanting	Frequent light irrigation is necessary to maintain moisture. Use alternate wetting and drying irrigation to optimize water use. Provide shade to nursery beds to reduce heat stress.
Maize	Vegetative stage	Apply irrigation at regular intervals to prevent moisture stress. Mulching with crop residues will help in conserving soil moisture. Avoid heavy irrigation to prevent waterlogging.
Tomato	Vegetative stage	High temperature can lead to flower drop. Apply light irrigation during early morning or evening hours. Mulching is recommended to maintain soil moisture.
Cabbage, Cauliflower	Harvesting stage	Harvest crops early in the morning to avoid heat stress. Store harvested produce in a cool and shaded area to maintain freshness.
Bean, Field Bean	Harvesting stage	Complete harvesting before peak temperatures to maintain quality. Sun-dry harvested produce properly to avoid fungal infection due to humidity changes.
Chilli	Fruit formation stage	High temperatures can cause fruit drop. Maintain proper irrigation and mulch around plants to reduce soil temperature and moisture loss. Provide shade nets if required.
Banana	Fruit development stage	Frequent light irrigation is needed to prevent fruit shrinkage. Apply organic mulches to retain soil moisture. Provide support to prevent plant lodging due to heat stress.
Vegetable crops	Various stages	Ensure adequate irrigation. Use mulching to reduce soil temperature. Monitor crops for pests such as mites and thrips, which increase under high temperatures.

Livestock, Poultry, and Sericulture Advisory (Very light Rainfall & High Temperature	
Sector	**Weather-Based Advisory**
Livestock	Ensure proper shade and ventilation in animal sheds. Provide ample clean drinking water. Avoid grazing during peak heat hours. Provide mineral supplements to prevent heat stress.
Poultry	High temperatures may lead to heat stress, affecting egg production and bird health. Maintain proper ventilation in poultry sheds. Provide cool drinking water with electrolytes. Reduce feed quantity in the daytime and provide more during cooler hours.
Sericulture	High temperatures can stress silkworms. Maintain humidity by sprinkling water in

	rearing rooms. Provide proper aeration and shade to protect mulberry plants from heat stress.

Moisture Conservation Practices and Summer Ploughing Advisory	
Practice	**Weather-Based Advisory**
Mulching	Apply dry leaves, paddy straw, or organic waste around plants to reduce evaporation losses and soil temperature.
Summer Ploughing	Since rainfall is absent, conduct deep summer ploughing to expose soil-borne pests and improve aeration. It also helps in better moisture retention for the next season.
Irrigation Management	Follow drip irrigation or sprinkler irrigation to conserve water. Irrigate during early morning or evening hours to minimize evaporation losses.
Shading Measures	For young plants and nurseries, use shade nets or temporary structures to reduce direct heat impact.

Sugarcane trash management

- **Composting:** Convert trash into organic manure.
- **Mulching:** Use as mulch to conserve moisture and suppress weeds.
- **Bio-decomposer:** Spray bio-decomposers (e.g., *Trichoderma, Pseudomonas*) on trash piles to accelerate decomposition.
- **Soil Incorporation:** Shred and plow trash into the soil.
- **Vermicomposting:** Use in vermiculture for nutrient-rich compost.
- **Animal Bedding:** Use for livestock, later as manure.
- **Avoid Burning:** Opt for sustainable disposal methods.

Recommendation to farmers

Crop specific advisory:

Crop	Stage	Advisory
Maize fall army worm	Vegetative stage	✓ Handpick and destroy egg masses and larvae. ✓ Use predators like *Trichogramma pretiosum* or parasitoids like *Telenomus remus*. ✓ Apply *Metarhizium anisopliae* or *Beauveria bassiana*. ✓ Spray Chlorantraniliprole 18.5% SC @ 0.4 ml/l or Emamectin benzoate 5% SG @ 0.4 g/l. Avoid excessive nitrogen application.
Coconut rugose whitefly	Vegetative stage	✓ Prune and burn infested leaves. ✓ Release *Encarsia guadeloupae* parasitoids. Conserve natural predators like ladybird beetles (*Cryptolaemus montrouzieri*). ✓ Spray Neem oil 1% or use Acephate 75 SP @ 1 g/l as a spot application if infestation is severe.
Chilli leaf curl virus	Vegetative stage	✓ Use virus-free seeds and resistant varieties. Maintain proper spacing and avoid overlapping. ✓ Remove and destroy infected plants. Use yellow sticky traps to monitor whitefly populations. ✓ Spray Imidacloprid 17.8% SL @ 0.5 ml/l or Thiamethoxam 25 WG @ 0.3 g/l.
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.
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.
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.

Block level weather forecast (From 19-03-2025 to 23-03-2025)					
Chamarajanagara					
Parameter	**19.03.2025**	**20.03.2025**	**21.03.2025**	**22.03.2025**	**23.03.2025**
Rainfall (mm)	0	0	0	0	1.1
Max. temp (°C)	33.2	33	32.8	32.9	31.8
Min.Temp (°C)	21.1	20.9	20.5	20.6	21.1
Sky condition (Octas)	3	4	1	2	3
Relative humidity (%) 0830 hours	81.5	91	92	86.4	84.7
Relative humidity (%) 1730 hours	31.6	32.5	36.1	34.9	38.6
Wind Speed (kmph)	6.1	7.6	7.9	5.8	6.1
Wind Direction	152	154.7	155.8	158.2	152

Gundlupete					
Parameter	**19.03.2025**	**20.03.2025**	**21.03.2025**	**22.03.2025**	**23.03.2025**
Rainfall (mm)	0	0	0	0	1.3
Max. temp (°C)	33.5	33.2	33.2	33.1	32.9
Min.Temp (°C)	20.8	20.4	19.8	20.1	20.6
Sky condition (Octas)	3	3	1	1	2
Relative humidity (%) 0830 hours	73.9	81.9	85.8	78.9	78.8
Relative humidity (%) 1730 hours	29.1	28.4	31.5	30.4	32.2
Wind Speed (kmph)	4.2	4	4.8	4	3.5
Wind Direction	160.1	153.5	153.5	169.7	156.1

Kollegala					
Parameter	**19.03.2025**	**20.03.2025**	**21.03.2025**	**22.03.2025**	**23.03.2025**
Rainfall (mm)	0	0	0	0	0.8
Max. temp (°C)	35.2	35	34.9	34.8	33.2
Min.Temp (°C)	22.1	22.1	21.7	21.5	22.1
Sky condition (Octas)	3	3	1	2	2
Relative humidity (%) 0830 hours	72.6	79.9	77.7	75.8	77.2
Relative humidity (%) 1730 hours	26.8	28.2	31.3	28.8	34.8
Wind Speed (kmph)	3.8	4.4	5.6	4.1	3
Wind Direction	163.3	170.6	165.1	164.8	166

Yelandur					
Parameter	**19.03.2025**	**20.03.2025**	**21.03.2025**	**22.03.2025**	**23.03.2025**
Rainfall (mm)	0	0	0	0	0.9
Max. temp (°C)	34.9	34.7	34.6	34.5	33.1
Min.Temp (°C)	21.8	21.9	21.4	21.2	21.8
Sky condition (Octas)	3	3	1	2	2
Relative humidity (%) 0830 hours	76.3	84.7	84	81.3	79.2
Relative humidity (%) 1730 hours	28.6	30.2	33.1	31.7	36.2
Wind Speed (kmph)	4.2	4.8	6	4.6	3.8
Wind Direction	160.1	167	162.7	161.6	163.3

Hanur					
Parameter	**19.03.2025**	**20.03.2025**	**21.03.2025**	**22.03.2025**	**23.03.2025**
Rainfall (mm)	0	0	0	0	3.4
Max. temp (°C)	33.6	33.2	33.1	33.4	31.7
Min.Temp (°C)	21.2	21.1	20.7	20.5	21.1

Sky condition (Octas)	3	4	1	2	2
Relative humidity (%) 0830 hours	76.6	85.7	84.5	81	78.9
Relative humidity (%) 1730 hours	29.2	29.7	33.2	30.3	38.6
Wind Speed (kmph)	4.1	5	5.2	4.2	4.2
Wind Direction	164.8	159	164.1	160.1	160.1

- 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

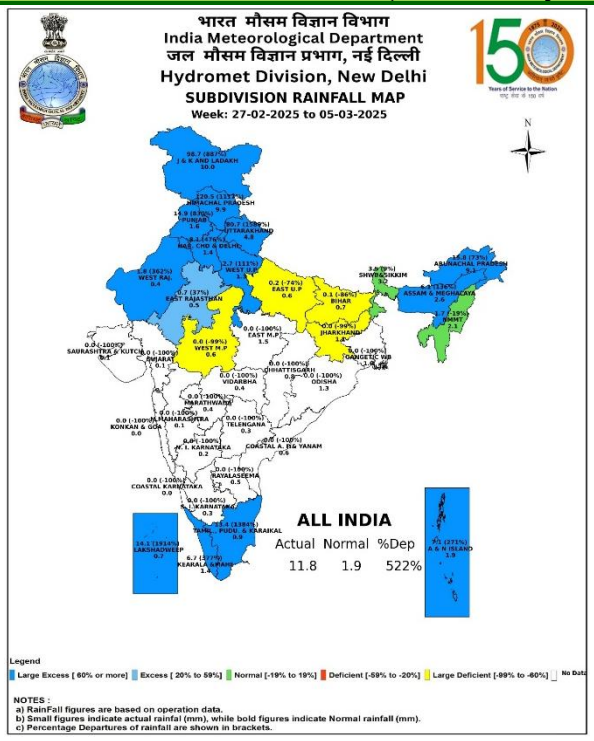
For any information farmers can contact **Dr. C. Ramachandra**, Senior Farm Superintendent/ **Dr. Sumanth Kumar.G.V**, Technical officer over phone No. 0821-259126/ 9535345814.

AMFU of IMD,
Naganahalli, Mysuru

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

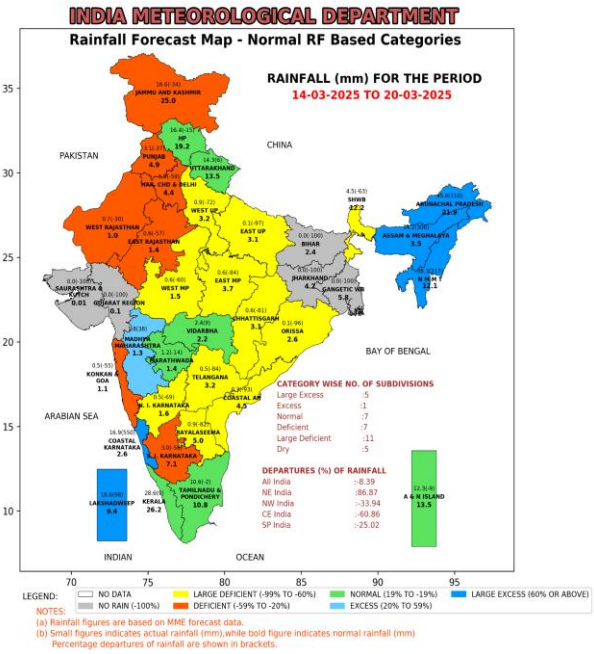
Realized Rainfall

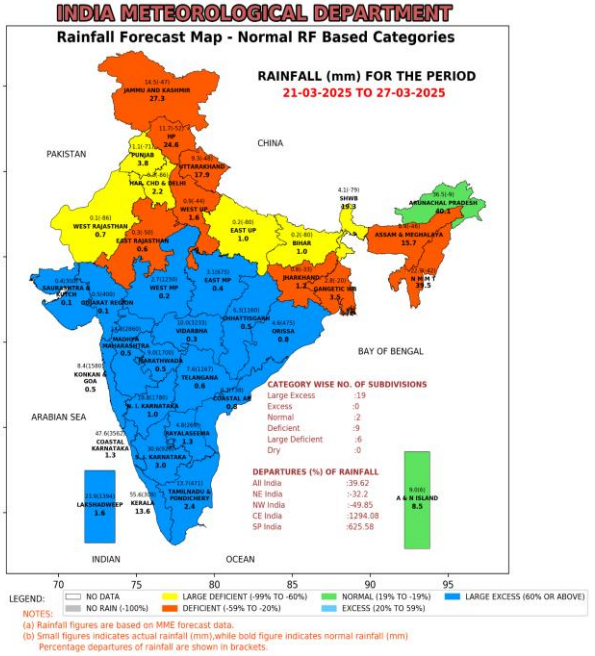
(27thFebruary to 12th March, 2025)



Extended Range Forecast System

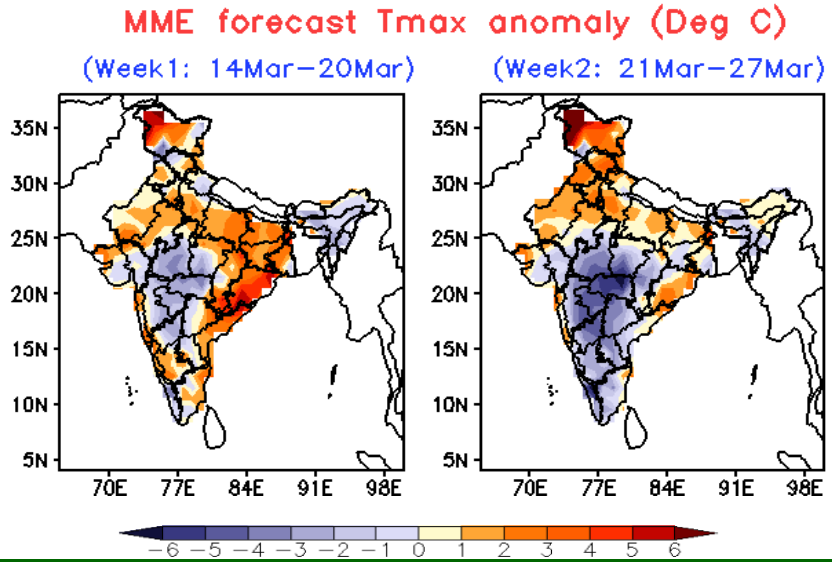
Rainfall forecast maps for the next 2 weeks (IC- 12th March,2025)
(14th to 27th March, 2025)





- **Week1(14.03.2025 to 20.03.2025):**Rainfall is likely to be above normalover North East India. Rainfall activity is also likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Kerala, coastal Karnataka and coastal regions of Tamil Nadu.
- **Week 2 (21.03.2025 to 27.03.2025):**Rainfall is likely to be above normalover Kerala, Tamil Nadu and Karnataka.Rainfall activity is also likely over Jammu & Kashmir,Himachal Pradesh, Uttarakhand, North East India, Maharashtra, Telanganaand some parts of Chhattisgarh and Odisha.

Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 12th March,2025)
(14th to 27th March, 2025)

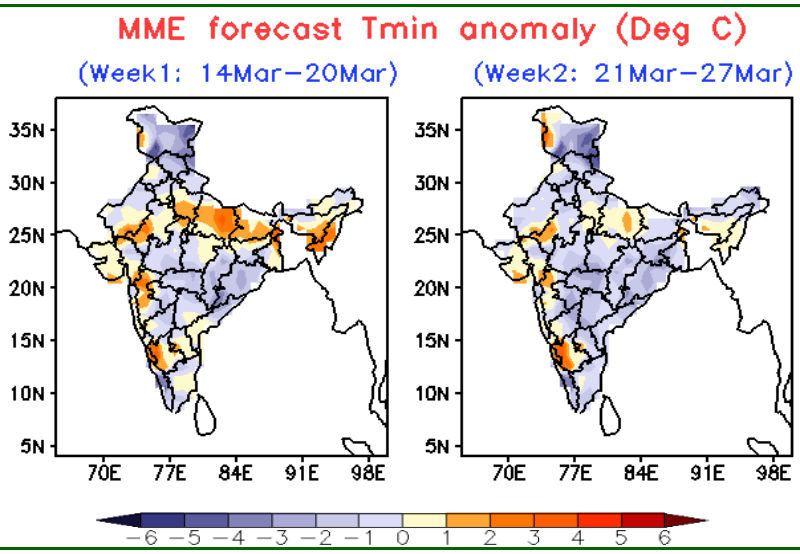


Maximum Temperature (Tmax)

- **Week 1 (14.03.2025 to 20.03.2025):** Maximum temperature is likely to be above normal over most parts of North West India, East India, Konkan-Goa, Karnataka and States along

East coast and below normal over Central India.

- **Week 2 (21.03.2025 to 27.03.2025):**Maximum temperature is likely to be above normal over most parts of North West India and many parts of East India. However, it is likely to be below normal over Central India, West India and South India.



Minimum Temperature (Tmin)

- **Week 1 (14.03.2025 to 20.03.2025):** Minimum temperature is likely to be below normal over Central India, Jammu & Kashmir and Odisha. However, it is likely to be above normal over many parts of North West India, North East India, Gujarat, Madhya Maharashtra and Karnataka.
- **Week 2 (21.03.2025 to 27.03.2025):** Minimum temperature is likely to be below normal over most parts of the country. However, it is likely to be above normal over East Uttar Pradesh, Gujarat, Karnataka, Madhya Maharashtraand some parts of North East India.