UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

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

Date: 29-11-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	25.11.2024	26.11.2024	27.11.2024	28.11.2024	29.11.2024
Rainfall (mm)	0	0	0	0	0
Max. Temp. (°C)	29.9	29.2	27.8	26.5	29.6
Min. Temp. (°C)	17.5	18.9	19.9	16.2	15.7
Sky condition (Octas)	-	-	-	-	-
Relative humidity (%) 0830 hours	99	98	98	98	85
Relative humidity (%) 1730 hours	-	-	-	-	-
Wind Speed (km/h)	-	-	-	-	-
Wind Direction	-	-	-	-	-

Weather forecast for the next five days (From 30-11-2024 to 04-12-2024)

Parameter	30.11.2024	01.12.2024	02.12.2024	03.12.2024	04.12.2024
Rainfall (mm)	4	5	15	18	17
Max. Temp. (°C)	25	22.2	22.8	24.4	25
Min.Temp. (°C)	18.1	19.5	19.9	19.9	19.8
Sky condition (Octas)	8	8	8	7	7
Relative humidity (%) 0830 hours	89	94	93	97	97
Relative humidity (%) 1730 hours	60	81	75	73	77
Wind Speed (kmph)	4.6	8.3	5.8	1.3	0.7
Wind Direction	315	288	0	214	0

Forecast Summary

As forecast received from IMD, partially cloudy sky with light to moderate rainfall may be expected from 30.11.2024 to 04.12.2024 in Chamarajanagara district. The day temperature is expected to be 22.2-25 °C & night temperature is expected 18.1-19.9 °C. The relative humidity in the morning hours is expected to be 89-97% & afternoon relative humidity is expected to be in the range of 60-81%. Wind speed expected to be 0.7-8.3 km/ hr.

SMS Advisory
Protect crops and livestock from cold; irrigate late morning and provide warm shelters for animals.

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

- ✓ **Drainage Management**: Ensure proper drainage systems in fields and plantations to avoid waterlogging, as light to moderate rainfall is forecasted. This will help prevent root rot and fungal diseases.
- ✓ **Pest and Disease Monitoring**: High humidity and overcast skies can trigger pest infestations and fungal diseases. Regularly inspect crops for common issues like fruit borers, aphids, black rot, and rust, and take timely control measures.
- ✓ **Crop Support**: Stake crops like tomato, chilli, and banana to protect them from lodging due to rain and wind.
- ✓ **Post-Harvest Handling**: For crops like cardamom and ginger, ensure harvested produce is dried in ventilated, rain-proof areas to maintain quality and prevent mold formation.
- ✓ **Livestock and Poultry Care**: Provide warm, dry shelters to protect animals from damp conditions. Avoid overcrowding in sheds to prevent disease outbreaks, and ensure clean water and balanced feed.
- ✓ **Sericulture and Horticulture**: Maintain ideal humidity and temperature in silkworm rearing rooms. Protect horticultural crops from fungal infections by spraying preventive fungicides if necessary.

Weather based advisory		
Crop	**Stage**	**Advisory**
Cabbage and cauliflower	**Head formation stage**	Ensure proper drainage to avoid waterlogging. Monitor for **black rot** and **aphids**. Spray copper oxychloride (0.3%) for black rot.
Bean	**Pod formation stage**	Protect plants from heavy rain impact. Monitor for **pod borer** and **rust**. Spray Spinosad for borers and Sulphur (0.2%) for rust.
Tomato	**Fruit development stage**	Prevent fruit cracking by maintaining uniform soil moisture. Monitor for **early blight** and **fruit borer**. Apply Mancozeb (0.25%).
Red gram	**Pod initiation stage**	Light irrigation during dry spells. Watch for **Maruca pod borer** and apply neem-based formulations if detected.
Paddy	**Hard dough stage**	Maintain field drainage to avoid flooding. Protect against **grain discolouration** using Carbendazim (0.1%) if symptoms appear.
Chilli	**Fruit development stage**	Stake plants to prevent lodging. Monitor for **thrips** and **powdery mildew**. Use Imidacloprid for thrips and wettable Sulphur (2 g/l).
Field bean	**Pod development**	Protect pods from fungal infections. Inspect for **pod borer**; use neem-based bio-pesticides if infestations are noticed.
Banana	**Fruit development stage**	Provide support to plants to prevent lodging. Spray Carbendazim (0.1%) for **Sigatoka leaf spot** if observed.
Chilli	**Vegetative stage**	Monitor for **leaf curl virus** caused by whiteflies. Use yellow sticky traps or spray neem oil (2%).
Horticultural crops	**Various stages**	Ensure good drainage around plants. Monitor for fungal infections due to high humidity and overcast conditions.
Plantation crops	**Various stages**	Mulch to conserve soil moisture. For **coffee**, monitor for berry borer and rust; for **pepper**, prune vines to improve aeration.
Livestock	**Shelter and Feeding**	Provide warm shelter and avoid waterlogging in sheds. Ensure clean drinking water and dry bedding for livestock.
Sericulture	**Rearing stage**	Maintain optimal room humidity (75-85%) and temperature (25-28°C). Protect mulberry plantations from waterlogging.
Poultry	Shelter and Feeding	Ensure proper ventilation in poultry sheds. Avoid damp bedding to prevent fungal infections. Provide warm water during colder nights.

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.
Paddy Leaf folder	Panicle emergence stage	Apply any one of the following insecticides per lit. water a) Quinalphos 25 EC. - 2.0 ml. b) Indoxacarb 14.5 SC. - 0.5ml. c) Flubendiamide 48 SC. - 0.08ml. d) Flubendiamide 20 WG. - 0.2 g. Drain out the water and spray the insecticide. 250 - 300 lit. spray mixture requires per acre.
Paddy Bacterial leaf blight	Panicle emergence stage	25 and 50 DAT add 0.5 g. Streptocycline and 2.5 g. Copper oxychloride 50 WP for a lit. Water and spray. 200 to 250 lit. Spray mixture requires/acre/time.
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 30-11-2024 to 04-12-2024)

Chamarajanagara

Parameter	30.11.2024	01.12.2024	02.12.2024	03.12.2024	04.12.2024
Rainfall (mm)	0.6	13.7	47.4	30.2	28.4
Max. temp (°C)	24.9	22.1	22.7	24.5	25
Min.Temp (°C)	17.7	19.4	19.9	19.7	19.7
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	89.8	95.8	93.8	99.1	98.4
Relative humidity (%) 1730 hours	59.8	84	74.1	73.6	78.1
Wind Speed (kmph)	6.1	10.5	8.7	2.6	0.5
Wind Direction	310.3	286	265.2	213.7	135

Gundlupete

Parameter	30.11.2024	01.12.2024	02.12.2024	03.12.2024	04.12.2024
Rainfall (mm)	0.4	14.7	33.3	29.5	26.3
Max. temp (°C)	24.2	22.1	22.8	24.1	24.9
Min.Temp (°C)	17.4	19.2	19.8	19.5	19.2
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	89	95.3	93.3	97.8	96.6

Relative humidity (%) 1730 hours	58.8	84.3	75.5	76.1	77.6
Wind Speed (kmph)	1.5	7.2	8	2.4	1
Wind Direction	315	272.9	262.2	243.4	135

Kollegala					
Parameter	**30.11.2024**	**01.12.2024**	**02.12.2024**	**03.12.2024**	**04.12.2024**
Rainfall (mm)	0.8	15.4	61.5	33.9	24.8
Max. temp (°C)	26.1	22.9	23.6	25.2	25.7
Min.Temp (°C)	18.2	20	20.5	20.4	20.4
Sky condition (Octas)	8	8	8	7	7
Relative humidity (%) 0830 hours	85.8	93.1	92.6	97.4	98.6
Relative humidity (%) 1730 hours	59.5	80.5	73	69.9	76.1
Wind Speed (kmph)	3.3	8.9	7.2	1.8	1.8
Wind Direction	319.4	284	0	0	11.3

Yelandur					
Parameter	**30.11.2024**	**01.12.2024**	**02.12.2024**	**03.12.2024**	**04.12.2024**
Rainfall (mm)	0.8	18	58.1	32.1	25.8
Max. temp (°C)	25.8	22.5	23.2	25	25.6
Min.Temp (°C)	18.1	19.8	20.2	20.2	20.2
Sky condition (Octas)	8	8	8	7	7
Relative humidity (%) 0830 hours	86.9	94.7	93.9	98.4	99.6
Relative humidity (%) 1730 hours	58.9	82.8	74	72	79
Wind Speed (kmph)	3.6	8.8	7.2	2.2	1.9
Wind Direction	323.2	281.8	267.1	260.5	21.8

Hanur					
Parameter	**30.11.2024**	**01.12.2024**	**02.12.2024**	**03.12.2024**	**04.12.2024**
Rainfall (mm)	1.4	26.3	80	34.8	27.5
Max. temp (°C)	24.6	21.5	22	23.8	24.4
Min.Temp (°C)	17.9	19.1	19.5	19.6	19.6
Sky condition (Octas)	8	8	8	7	7
Relative humidity (%) 0830 hours	89.1	93.5	93.7	98.2	98.8
Relative humidity (%) 1730 hours	60.7	83.3	78.6	75.5	81.8
Wind Speed (kmph)	6	9.8	5.8	1.4	1.8
Wind Direction	302.8	287.1	266.4	90	0

- 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

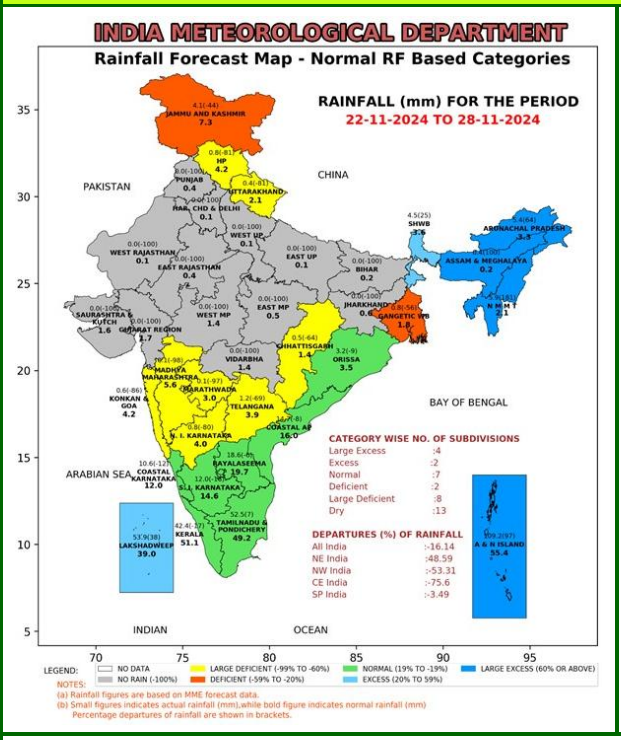
वास्तविकवर्षातथाविस्तारितअवधिपूर्वानुमान
Realized Rainfall and Extended Range Forecast
(वर्षाऔरतापमान)
(Rainfall and Temperature)

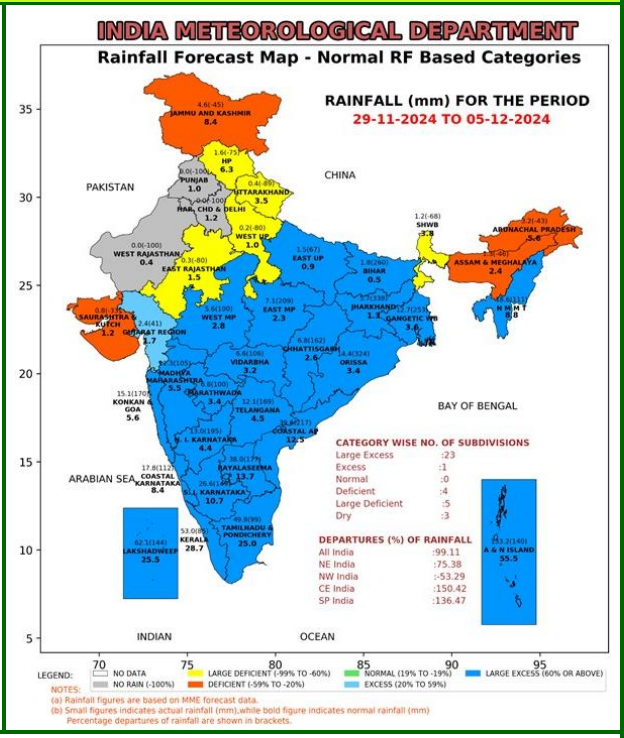
Realized Rainfall

(07th to 20th November,2024)

Extended Range Forecast System

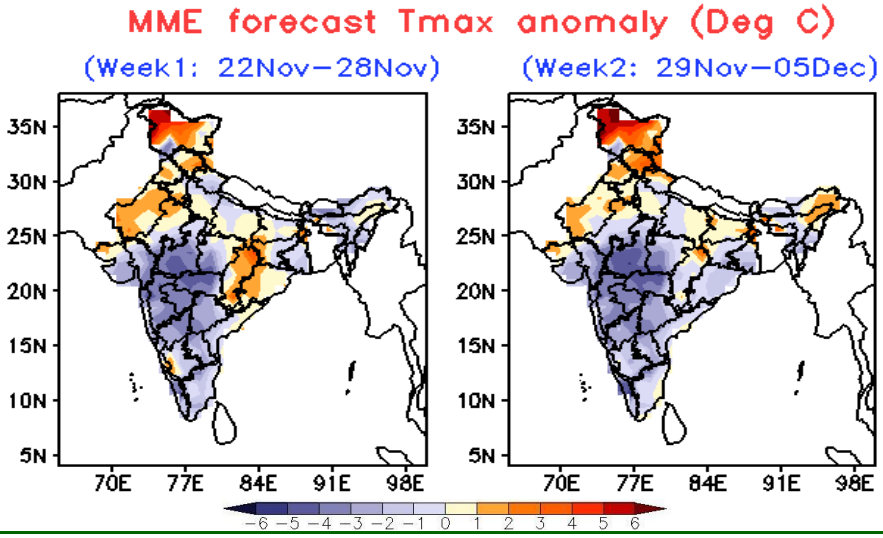
Rainfall forecast maps for the next 2 weeks (IC- 20th November, 2024) (22nd Novemberto 05th December, 2024)





- **Week1 (22.11.2024 to 28.11.2024):**Rainfall is likely to be normal over South India.
- **Week 2 (29.11.2024 to 05.12.2024):**Rainfall is likely over South India,Central India, East India and Nagaland, Manipur, Mizoram & Tripura (NMMT).

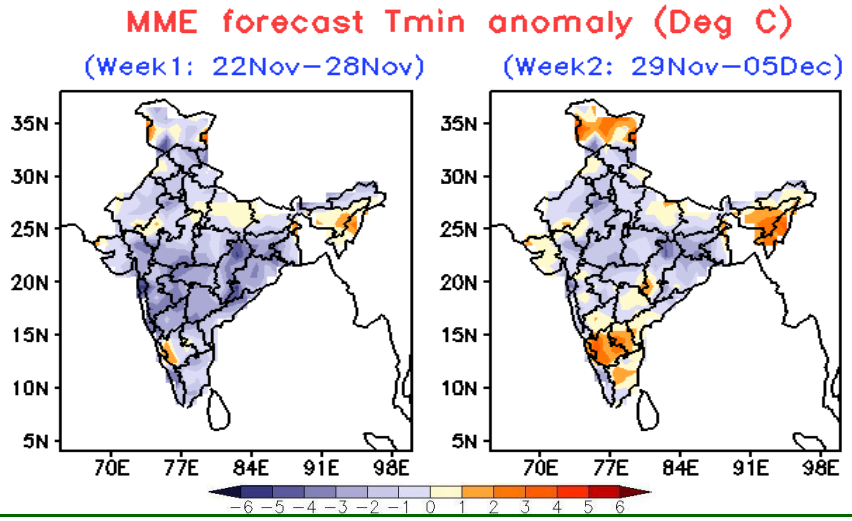
Maximum and Minimum temperature anomaly (˚C) forecast for the next 2 weeks (IC- 20th November, 2024) (22nd Novemberto 05th December, 2024)



Maximum Temperature (Tmax)

- **Week 1 (22.11.2024 to 28.11.2024):**Maximum temperature is likely to be above normal over Jammu & Kashmir, Punjab, Himachal Pradesh, West Rajasthan and Chhattisgarh. It is likely to be below normal over Central India, West India and South India.
- **Week 2 (29.11.2024 to 05.12.2024):**Maximum temperature is likely to be above normal over Jammu & Kashmir, Himachal Pradesh, Punjab, West Rajasthan and Arunachal Pradesh. It is likely to be below normal over Central India, West India, South India and

some parts of East India.



Minimum Temperature (Tmin)

- **Week 1 (22.11.2024 to 28.11.2024):** Minimum temperature is likely to be below normal over most parts of the country.
- **Week 2 (29.11.2024 to 05.12.2024):** Minimum temperature is likely to be below normal over many parts of Northwest India, Central India and some parts of East India. It is likely to be above normal over Jammu & Kashmir, Northeast India, many parts of West India and South India.