

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



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MYSURU - 570003**



Date: 09-08-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	06.08.2024	07.08.2024	08.08.2024	09.08.2024
Rainfall (mm)	0.5	0	1	0
Max. Temp. (°C)	30.6	29.1	29.2	29.7
Min. Temp. (°C)	22	20.9	21.7	21.6
Sky condition (Octas)	-	-	-	-
Relative humidity (%) 0830 hours	100	97	99	100
Relative humidity (%) 1730 hours	81	69	76	64
Wind Speed (km/h)	-	-	-	-
Wind Direction	-	-	-	-

Weather forecast for the next five days (From 10-08-2024 to 14-08-2024)

Parameter	10.08.2024	11.08.2024	12.08.2024	13.08.2024	14.08.2024
Rainfall (mm)	7	8	7	7	6
Max. Temp. (°C)	30	31	31	29	28
Min.Temp. (°C)	16.8	17.3	18	18.2	17.5
Sky condition (Octas)	7	8	8	8	8
Relative humidity (%) 0830 hours	90	88	88	87	88
Relative humidity (%) 1730 hours	55	54	53	54	54
Wind Speed (kmph)	10	10	8	7	7
Wind Direction	292	292	292	285	287

Forecast Summary

As forecast received from IMD, Cloudy sky with **light to moderate rainfall** may be expected from 10.08.2024 to 14.08.2024 in Chamarajanagara district. The day temperature is expected to be 28-31°C & night temperature is expected 16.8-18°C. The relative humidity in the morning hours is expected to be 87-90% & afternoon relative humidity is expected to be in the range of 53-55%. Wind speed expected to be 7-10 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
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General Advisory

General recommendations for agricultural activities based on the given rainfall forecast:

- ✓ Postpone sowing if the soil moisture is insufficient due to light rainfall.
- ✓ Ensure proper soil moisture before sowing by irrigating if necessary.
- ✓ Carry out weeding during dry spells between rainfall events.
- ✓ Avoid weeding immediately after rain to prevent soil compaction.
- ✓ Limit irrigation due to forecasted light rainfall, but monitor soil moisture levels.
- ✓ Provide light irrigation if the rainfall is not sufficient to meet crop water requirements.
- ✓ Schedule spraying during dry periods, preferably in the early morning or late afternoon.
- ✓ Avoid spraying immediately before or after rainfall to ensure the effectiveness of the application.
- ✓ Plan harvesting during dry spells to prevent post-harvest losses due to moisture.
- ✓ Avoid harvesting when rainfall is forecasted to reduce the risk of crop damage.
- ✓ Ensure good drainage systems are in place to prevent waterlogging, especially in low-lying areas.
- ✓ Regularly inspect and clear drainage channels to allow excess water to flow out.
- ✓ Prune plants during dry days to minimize the risk of disease entry through fresh cuts.
- ✓ Avoid pruning when heavy rainfall is expected to reduce the risk of fungal infections.
- ✓ Apply fertilizers when light rainfall is forecasted to ensure better absorption by the soil.
- ✓ Avoid fertilizing just before heavy rainfall to prevent nutrient leaching.
- ✓ Treat seeds before sowing, especially if sowing is planned after light rainfall.
- ✓ Ensure treated seeds are dried properly before sowing to avoid fungal infections.

Crop	Stage	Advisory
Tomato	Ripening	Pest Management: Use spinosad. Monitor and manage fungal diseases.
Ginger, Turmeric	Rhizome development	Ensure proper drainage to avoid waterlogging, which can cause rhizome rot.
Pulses (Green gram, Black gram, Cowpea, Avare, Groundnut)	Vegetative	Use neem oil for pest control. Apply nitrogenous fertilizers if yellowing is observed.
Banana	Bunch development	Support bunches with props to prevent damage from winds and monitor for pests.
Paddy and Ragi	Transplanted	Ensure adequate irrigation and avoid water stagnation. Manual weeding or appropriate herbicides.
Coffee	Berry development	Monitor for leaf rust and use recommended fungicides. Ensure adequate shade.
Maize, Brinjal, Sunflower, Chilli and Cotton	Vegetative	Monitor for aphids, jassids, and whiteflies. Use appropriate insecticides.
Beans	Flowering	Monitor for aphids and bean fly. Use neem-based products. Ensure regular irrigation.
Coconut & Arecanut	-	Use neem oil for rugose whitefly. Remove affected leaves for caterpillar. Use pheromone traps for rhinoceros beetle.
Maize Fall army worm	Vegetative stage	Use chlorantraniliprole or Emamectin benzoate for fall armyworm. Regular monitoring.
Tobacco	Harvesting	Ensure proper curing conditions to prevent mold and rot. Avoid harvesting during rainy periods. Handle leaves gently to prevent damage.

Tomato Fruit borer	Fruiting	<ul style="list-style-type: none"> • Caterpillar bore the flower buds and fruits. Infested flower buds with hole and drops off, fruit with a hole, water enter through the hole leads to rotting. • Trap crop: For every 25 rows of tomato grow one row of marigold cultivar African tall. The marigold seedlings about 35-40 days old. If borer problems exceeds 10 per cent spray 4 per cent. NSKE or 100 LE, Ha. NPV. If infestation in severe form spray 1.0 g. Methomil 40 SP. in a lit. water
Coconut black headed caterpillar	<ul style="list-style-type: none"> • Remove and burn the severely affected fronds. • On community basis feed the Manocrotophos 36 SL. to the palm through root. <p>Method: A meter away from trunk, dig out and select brown coloured pencil thickness size root. Cut the root in a slanting position. To the polythene bag (size of 15 cm. length 4 cm. breadth) add 7.5 to 10 ml. Monocrotophos 36 SL. with equal quantity of water, introduce and immerse cut end of the root in insecticide mixture and tie the bag with thread.</p> <ul style="list-style-type: none"> • The palm absorb the chemical within a period of 24 hours, if not after 48 hours select another root to feed the chemical. • A month after chemical treatment release larval parasites: gravid, Goniozus @ 10 - 12 /palm. <p>Caution: Not to harvest tender coconuts/matured coconuts for 30 days from date of chemical treatment.</p>	
Coconut	Rhinoceros beetle	Remove the beetle from infected part and fill 2 % Quinolphos or 5 % Melathion in sand @ 1:1 ratio.
Sericulture	Maintain optimal temperature and humidity in silkworm rearing houses. Provide good ventilation. Use disinfectants to control diseases. Ensure mulberry leaves are clean and disease-free.	
Poultry	Ensure proper ventilation in poultry houses to maintain optimal temperature and humidity. Provide clean drinking water. Vaccinate against common diseases. Keep the poultry shed dry and clean to prevent disease outbreaks.	
Livestock	Ensure clean and dry housing to prevent hoof diseases. Provide adequate clean drinking water. Supplement diet with minerals and vitamins. Regularly check for external parasites and treat accordingly.	

Block level weather forecast (From 10-08-2024 to 14-08-2024)**Chamarajanagara**

Parameter	10.08.2024	11.08.2024	12.08.2024	13.08.2024	14.08.2024
Rainfall (mm)	1.4	9.2	7.6	10.4	4.2
Max. temp (°C)	26	27.1	26	25.9	23.4
Min.Temp (°C)	17.6	18	18.3	18.9	18.5
Sky condition (Octas)	6	7	8	8	8
Relative humidity (%) 0830 hours	88	87	90	85	85
Relative humidity (%) 1730 hours	48	49	52	51	58
Wind Speed (kmph)	13	12	10	9	7
Wind Direction	283	289	296	281	252

Gundlupete

Parameter	10.08.2024	11.08.2024	12.08.2024	13.08.2024	14.08.2024
Rainfall (mm)	3.4	11.3	2.6	5.4	1.3
Max. temp (°C)	26.1	27.3	26.8	27	25
Min.Temp (°C)	17.7	18.1	18.4	19.1	18.7
Sky condition (Octas)	6	7	8	8	8
Relative humidity (%) 0830 hours	91	91	90	86	86
Relative humidity (%) 1730 hours	53	53	53	52	56
Wind Speed (kmph)	12	11	9	8	6
Wind Direction	257	261	293	270	261

Kollegala

Parameter	10.08.2024	11.08.2024	12.08.2024	13.08.2024	14.08.2024
Rainfall (mm)	7.3	17.1	12	26.9	25.6
Max. temp (°C)	28.4	28.9	28.5	27.6	25.9
Min.Temp (°C)	19	19.7	19.8	20.3	20.1
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	91	87	91	87	86
Relative humidity (%) 1730 hours	50	52	51	53	57
Wind Speed (kmph)	12	9	9	8	7
Wind Direction	252	257	250	251	249

Yelandur

Parameter	10.08.2024	11.08.2024	12.08.2024	13.08.2024	14.08.2024
Rainfall (mm)	5.3	18.2	14.5	20.7	14.6
Max. temp (°C)	26.9	27.5	26.8	26.4	24
Min.Temp (°C)	18	18.6	18.7	19.3	19.1
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	90	88	91	87	85
Relative humidity (%) 1730 hours	49	52	53	53	59
Wind Speed (kmph)	13	11	10	9	7
Wind Direction	257	253	250	270	249

Hanur

Parameter	10.08.2024	11.08.2024	12.08.2024	13.08.2024	14.08.2024
Rainfall (mm)	17.4	33.6	26.3	39.5	41.4
Max. temp (°C)	28.7	29.1	28.7	28	25.6
Min.Temp (°C)	19.2	19.8	20.1	20.5	20.2
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	95	91	94	90	89
Relative humidity (%) 1730 hours	54	59	60	61	67
Wind Speed (kmph)	10	8	8	7	6
Wind Direction	283	283	255	279	251

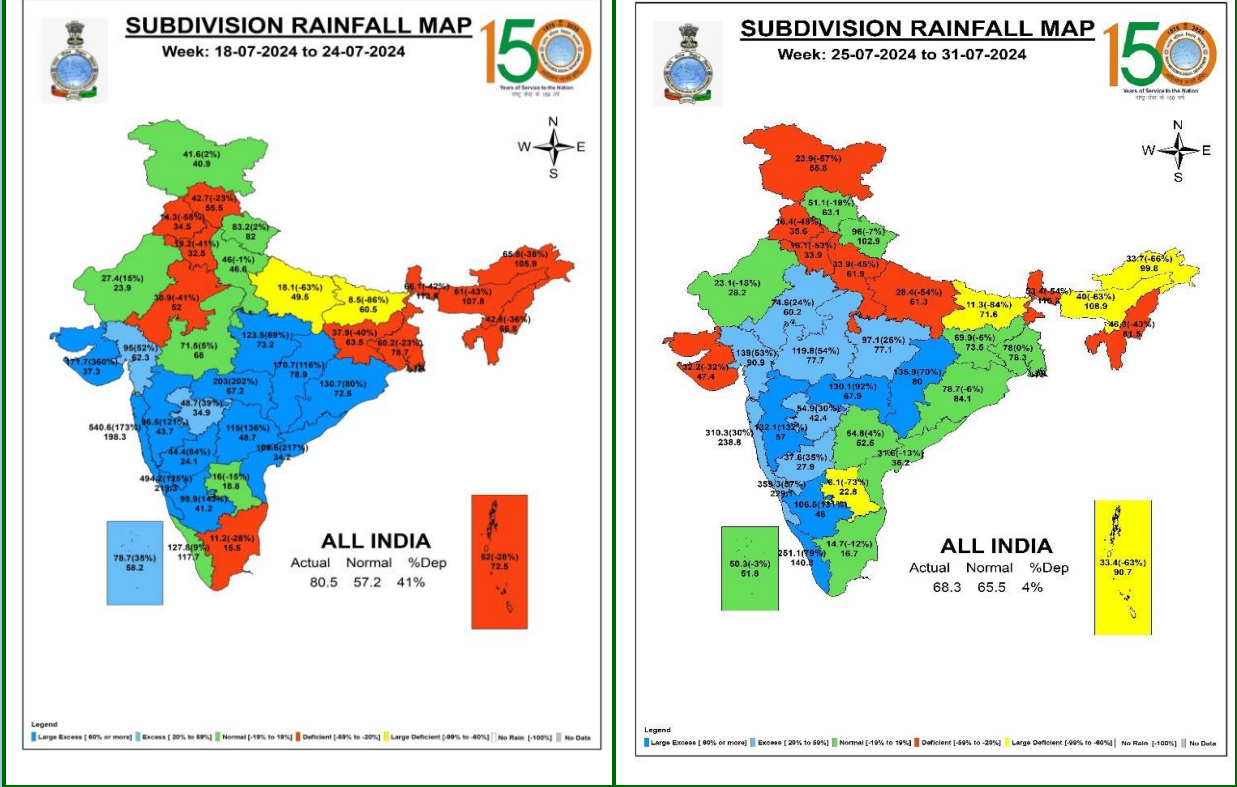
- Download “DAMINI” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download”MAUSAM” APP for location specific forecast & warning &“MEGHDOOT” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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**

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

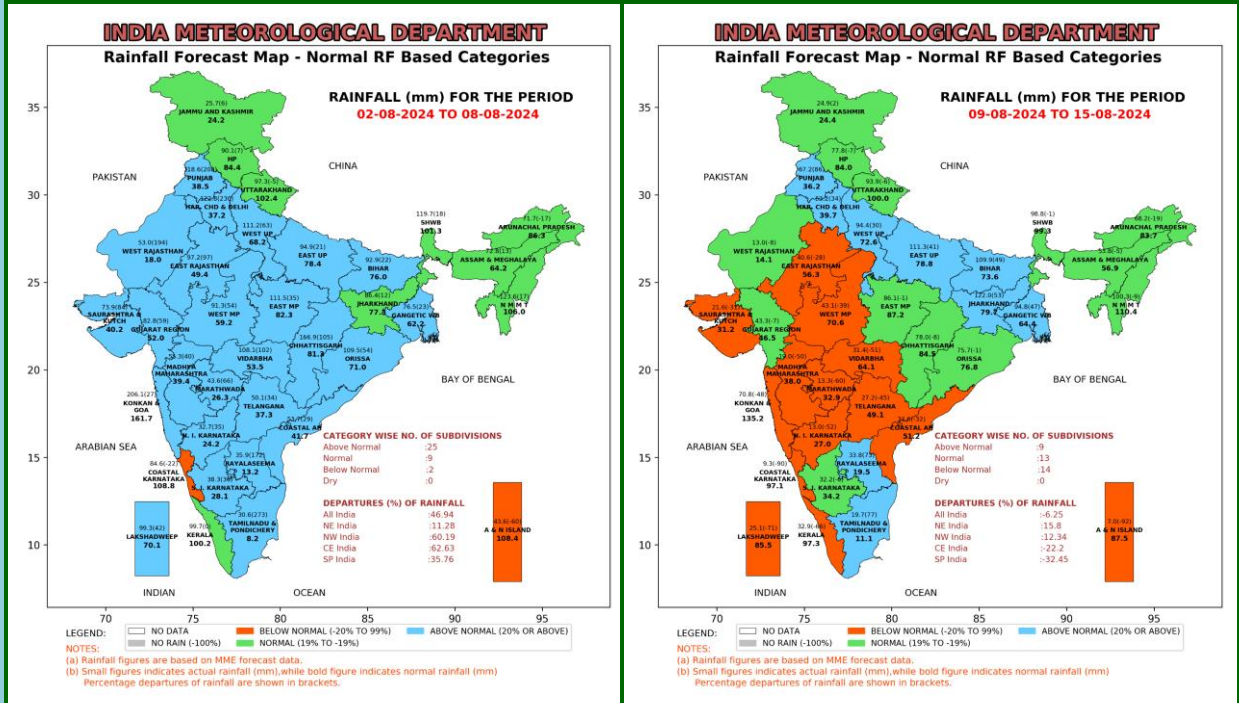
Realized Rainfall
 (18th to 31st July, 2024)



- Normal or above normal rainfall occurred in both the weeks over Uttarakhand, West Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat Region, Maharashtra, Telangana, Coastal Andhra Pradesh, Karnataka, Kerala & Mahe and Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, East Rajasthan, Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- Below Normal rainfall/no rain occurred in both the weeks over Punjab, Haryana Chandigarh & Delhi, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT) and Andaman & Nicobar Islands.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 31st July, 2024) (02nd to 15th August, 2024)



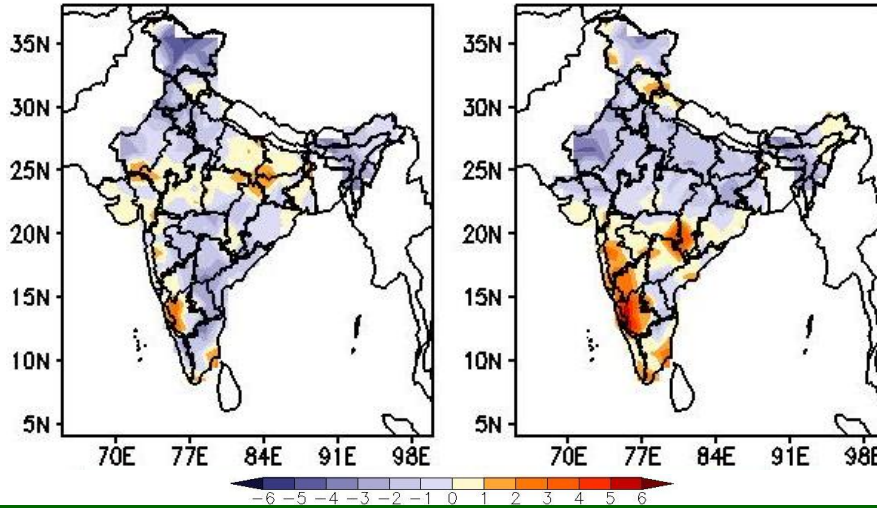
- **Week 1 (02.08.2024 to 08.08.2024):** Rainfall is likely to be above normal over most parts of the country.
- **Week 2 (09.08.2024 to 15.08.2024):** Rainfall is likely to be above normal over Northwest India and Indo Gangetic Plains. However, it is likely to be below normal over Central India, Northeast India and along West coast.

**Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 31stJuly, 2024)
(02nd to 15th August, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 02Aug–08Aug)

(Week2: 09Aug–15Aug)



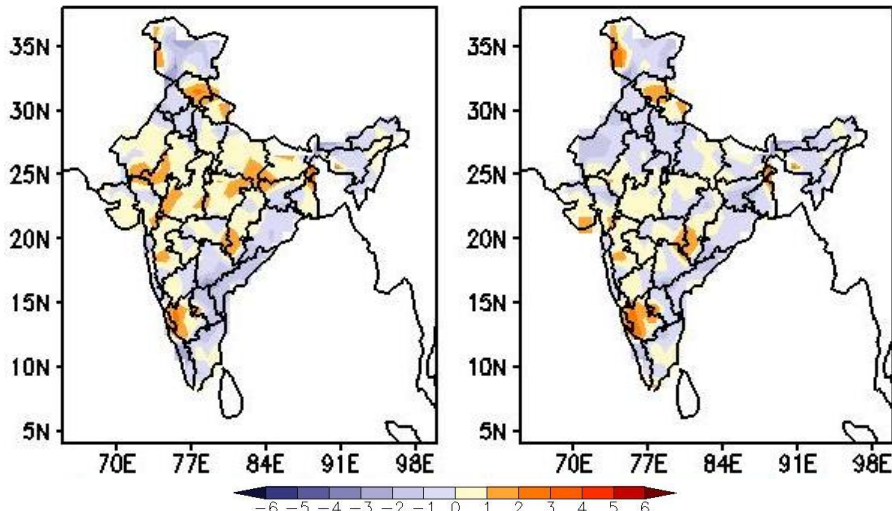
Maximum Temperature (Tmax)

- **Week 1 (02.08.2024 to 08.08.2024):** Maximum temperature is likely to be normal to below normal over most parts of the country.
- **Week 2 (09.08.2024 to 15.08.2024):** Maximum temperature is likely to be above normal over South India and some parts of Central India. It is likely to be below normal over Northwest India, East India and Northeast India.

MME forecast Tmin anomaly (Deg C)

(Week1: 02Aug–08Aug)

(Week2: 09Aug–15Aug)



Minimum Temperature (Tmin)

- **Week 1 (02.08.2024 to 08.08.2024):** Minimum temperature likely to be slightly above normal over parts of Northwest India, Central India, East India and Karnataka.
- **Week 2 (09.08.2024 to 15.08.2024):** Minimum temperature likely to be slightly above normal over parts of Maharashtra, Madhya Pradesh, Chhattisgarh, Gujarat, Himachal Pradesh and Uttarakhand. It is likely to be above normal over parts of Karnataka.