

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



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



Date: 02-08-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	30.07.2024	31.07.2024	01.08.2024	02.08.2024
Rainfall (mm)	8.1	1.5	4.5	0.2
Max. Temp. (°C)	30.6	28.2	30.4	28.6
Min. Temp. (°C)	21.9	21.9	21	21
Sky condition (Octas)	8	8	8	8
Relative humidity (%) 0830 hours	96	86	85	87
Relative humidity (%) 1730 hours	67	86	93	81
Wind Speed (km/h)	4	6	4	4
Wind Direction	230	140	320	230

Weather forecast for the next five days (From 03-08-2024 to 07-08-2024)

Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	16	15	18	14	23
Max. temp (°C)	28.9	29.4	26.5	28.9	28.8
Min.Temp (°C)	17.2	17.4	16.4	17	17.6
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	87	89	94	92	90
Relative humidity (%) 1730 hours	63	62	78	59	55
Wind Speed (kmph)	19	17	14	15	13
Wind Direction	248	249	248	248	249

Forecast Summary

As forecast received from IMD, cloudy sky with moderate rainfall may be expected from 03.08.2024 to 07.08.2024 in Mandya district. The day temperature is expected to be 26.5-29.4°C & night temperature is expected 16.4-17.6°C. The relative humidity in the morning hours is expected to be 87-94% & afternoon relative humidity is expected to be in the range of 60-84% per cent. Wind speed expected to be 13-19 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
------	--------------	-----------------	------------------

General Advisory

- **Weather Monitoring:** Keep an eye on weather forecasts to anticipate heavy rains and prepare accordingly.
- **Field Inspection:** Regularly inspect fields for signs of waterlogging and take timely actions.
Pest and Disease Vigilance: Waterlogged conditions can lead to an increase in pests and diseases. Monitor crops closely and use appropriate control measures.
- **Avoid Spraying:** Due to high wind speeds.
- **Monitor Soil Moisture:** Regularly check fields for signs of waterlogging and take appropriate measures to ensure proper drainage.
- **Support Plants:** Use stakes or other supports to prevent lodging in crops susceptible to toppling due to heavy rain and wind.
- **Delay Fertilizer Application:** Postpone any planned fertilizer applications until the weather conditions improve to avoid nutrient leaching and runoff.
- **Harvesting:** Delay harvesting of crops, especially those sensitive to moisture, until the heavy rainfall subsides.
- **Storage:** Store harvested produce in a safe, dry place to prevent spoilage due to high humidity and rain.
- **Tomato Fruit Problems:** Remove affected fruits promptly to prevent the spread of disease and consider using protective coverings to shield plants from excess rain.
- **Tobacco Harvesting:** Delay harvesting if possible. If immediate harvesting is necessary, ensure proper drying conditions by using artificial dryers or well-ventilated areas to prevent low-grade quality due to wet conditions.

Crop	Stage	Advisory
Tomato	Fruit development	Ensure proper drainage, remove affected fruits to prevent spread of disease, avoid irrigation, and delay fertilizer application until rainfall subsides. Use protective covering if possible.
Ginger, Turmeric & Cabbage	Rhizome development	Ensure proper drainage, avoid water stagnation, and delay fertilizer application.
Pulses (Green gram, Black gram, Cowpea, Avare, Groundnut)	Vegetative	Ensure proper drainage, avoid waterlogging, support plants if necessary, and delay fertilizer application.
Banana	Bunch development	Support plants to prevent toppling, ensure proper drainage, avoid waterlogging, and delay fertilizer application.
Paddy and Ragi	Transplanting	Ensure proper drainage, avoid waterlogging, and delay fertilizer application until rainfall reduces.
Tobacco	Harvesting	Avoid harvesting during high wind speeds and heavy rainfall, ensure proper drying conditions.
Coffee	Berry development	Ensure proper drainage, avoid waterlogging, delay fertilizer application, and support plants if necessary.
Maize, Brinjal, Sunflower, Chilli and Cotton	Vegetative	Ensure proper drainage, avoid waterlogging, support plants and delay fertilizer application.
Beans	Flowering	Ensure proper drainage, avoid waterlogging, support plants if necessary, and delay fertilizer application.
Coconut & Arecanut	Basin formation	Create basins around trees to retain moisture, ensure proper drainage, and delay further manure application until the weather stabilizes.

<p>Maize Fall army worm</p>	<p>Vegetative stage</p>	<p>5% damage- Application of 5% neem seed kernel extract (NSKE) or azadirachtin 1500ppm @ 5ml/litre (1 litre/acre)of water. 10% damage- Whorl application of any one of the recommended insecticides for FAW, viz.,Chlorantraniliprole 18.5 SC (80 ml/acre) @ 0.4 ml/litre or Spinetoram 11.7 %SC (100ml/acre) @ 0.5 ml/litre or Emamectin benzoate 5% SG (80g/acre) @ 0.4g/litre.</p>
<p>Tomato Fruit borer</p>	<p>Fruiting</p>	<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
<p>Coconut black headed caterpillar</p>	<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>	
<p>Coconut</p>	<p>Rhinoceros beetle</p>	<p>Remove the beetle from infected part and fill 2 % Quinolphos or 5 % Melathion in sand @ 1:1 ratio.</p>
<p>Sericulture</p>	<p>Ensure proper drainage in mulberry fields to prevent waterlogging. Maintain optimal humidity and ventilation in rearing houses. Check for pests and diseases due to high moisture levels.</p>	
<p>Poultry</p>	<p>Ensure proper ventilation in poultry houses to avoid heat stress. Keep poultry housing dry and clean to prevent disease outbreaks. Secure structures to withstand high winds.</p>	
<p>Livestock</p>	<p>Provide shelter to protect animals from heavy rain and high winds. Ensure proper drainage in animal housing areas. Maintain dry bedding to prevent hoof problems. Monitor for signs of respiratory issues and provide balanced nutrition to support immune function.</p>	

Rainwater Harvesting	Clean and maintain rainwater harvesting structures to prevent clogging. Ensure storage tanks are covered to prevent contamination. Utilize excess rainwater for irrigation during dry periods.
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Block level weather forecast (From 03-08-2024 to 07-08-2024)					
Krishnarajpet					
Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	3.6	1.2	9.2	6	11.7
Max. temp (°C)	27.3	27.5	23.3	27.9	27.6
Min.Temp (°C)	17.9	18.2	16.9	17.8	18.3
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	88	90	96	93	90
Relative humidity (%) 1730 hours	65	63	81	58	55
Wind Speed (kmph)	20	18	14	15	13
Wind Direction	248	249	246	248	257

Maddur					
Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	9.2	7.3	11.6	8.8	16.1
Max. temp (°C)	28.5	28.8	24.4	26.8	28
Min.Temp (°C)	19.6	19.7	18.3	19.2	19.9
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	87	90	93	91	90
Relative humidity (%) 1730 hours	60	59	74	59	53
Wind Speed (kmph)	18	16	13	13	12
Wind Direction	248	249	246	248	248

Malvalli					
Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	11	7.3	7.9	12.7	8.1
Max. temp (°C)	27.9	28.6	25.6	26.3	27.3
Min.Temp (°C)	19.4	19.2	18.2	18.9	19.5
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	87	88	90	89	89
Relative humidity (%) 1730 hours	59	58	67	58	52

Wind Speed (kmph)	19	17	14	15	13
Wind Direction	248	249	249	248	248

Mandya					
Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	10.6	5.8	8.9	8.4	17.4
Max. temp (°C)	27.9	28.5	24.6	27	27.4
Min.Temp (°C)	19	19.2	17.9	18.7	19.3
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	87	89	93	91	89
Relative humidity (%) 1730 hours	60	59	72	58	53
Wind Speed (kmph)	19	17	14	15	13
Wind Direction	248	249	248	248	248

Nagamangala					
Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	1.7	2.1	10.3	6.1	8.6
Max. temp (°C)	28.4	28	23.5	28.6	28.5
Min.Temp (°C)	18.3	18.8	17.3	18.3	18.6
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	84	86	94	90	88
Relative humidity (%) 1730 hours	60	60	79	54	54
Wind Speed (kmph)	21	19	15	16	13
Wind Direction	249	249	248	248	270

Pandavapura					
Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	5.8	4.6	7.7	7.5	16.3
Max. temp (°C)	27.4	28	23.8	27.2	27.2
Min.Temp (°C)	18.3	18.5	17.2	18.1	18.6
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	89	91	95	93	91
Relative humidity (%) 1730 hours	63	62	77	59	55
Wind Speed (kmph)	19	17	14	15	13
Wind Direction	248	249	248	248	249

Shrirangapattana

Parameter	03.08.2024	04.08.2024	05.08.2024	06.08.2024	07.08.2024
Rainfall (mm)	7	6.7	6.5	9	16.9
Max. temp (°C)	27	27.7	24	26.6	26.6
Min.Temp (°C)	18.1	18.2	17	17.8	18.4
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	89	91	94	92	91
Relative humidity (%) 1730 hours	63	63	74	61	55
Wind Speed (kmph)	19	17	15	16	14
Wind Direction	248	249	248	248	248

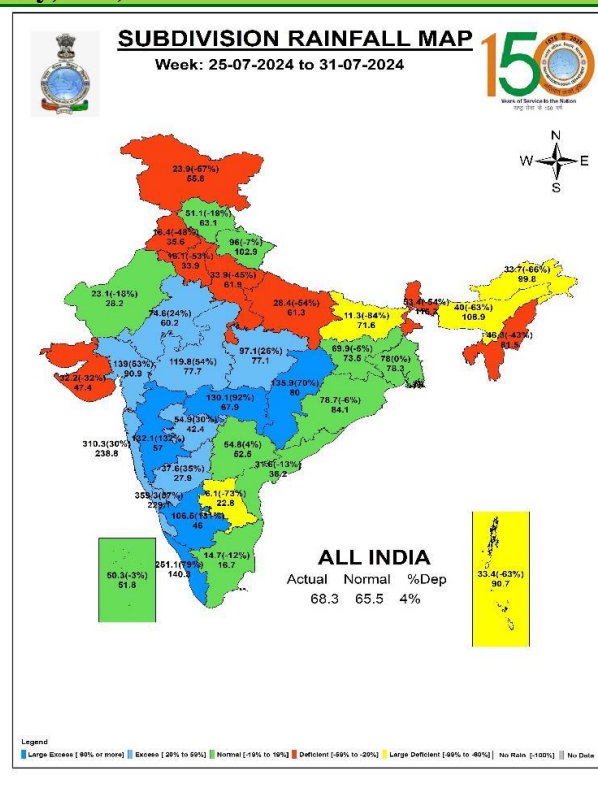
- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “**MAUSAM**” APP for location specific forecast & warning & “**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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

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

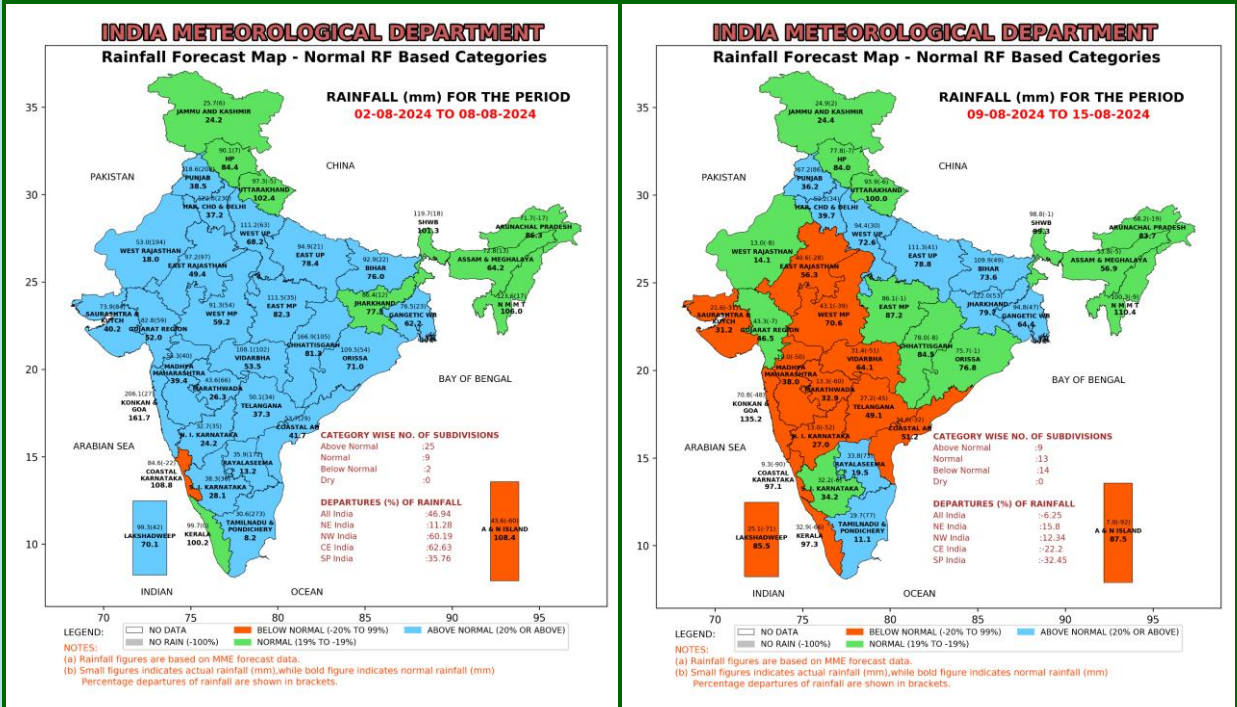
Realized Rainfall
(18th to 31st July, 2024)



- 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)



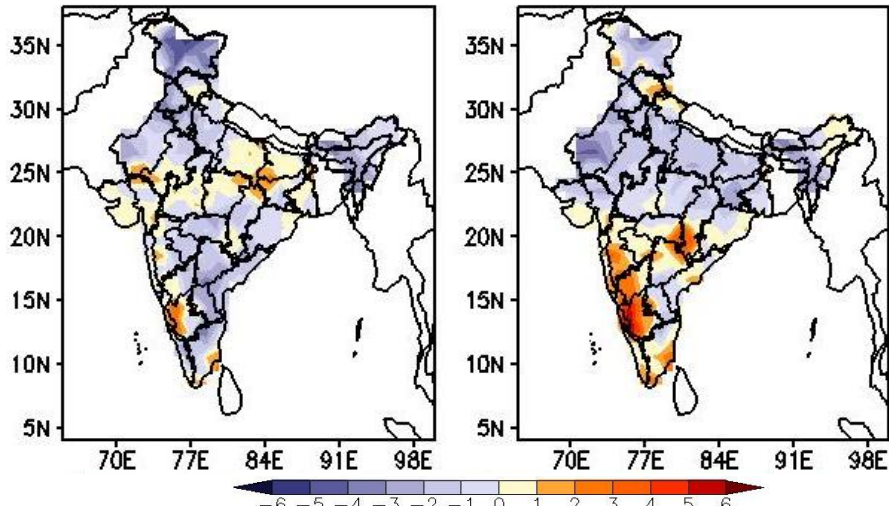
- **Week 1 (02.08.2024 to 08.08.2024):** Rainfall is likely to be above normal over most parts of the country.
- **Week 2 (09.08.2024 to 15.08.2024):** Rainfall is likely to be above normal over Northwest India and Indo Gangetic Plains. However, it is likely to be below normal over Central India, Northeast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



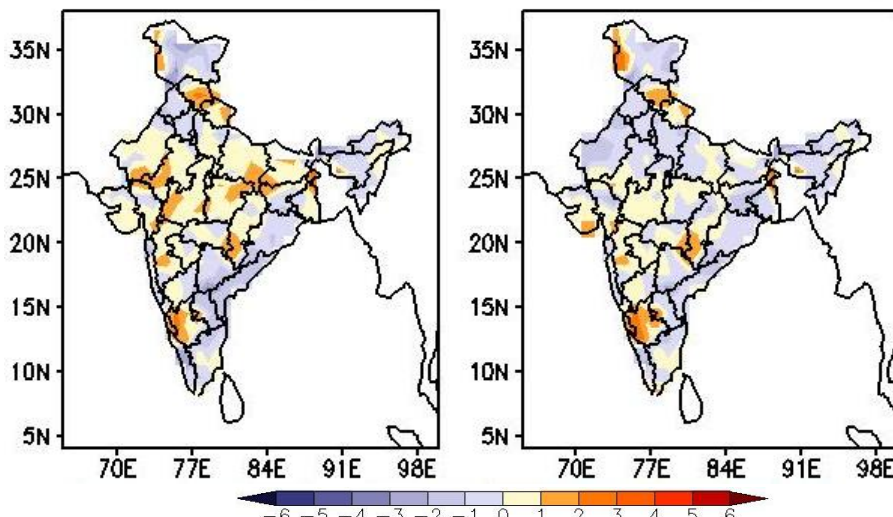
Maximum Temperature (Tmax)

- **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.