

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



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



Date: 19-07-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	15.07.2024	16.07.2024	17.07.2024	18.07.2024	19.07.2024
Rainfall (mm)	6	6.6	0.7	5.1	6.8
Max. Temp. (°C)	28.2	26.6	27.6	29.4	27.6
Min. Temp. (°C)	-	-	-	22	21.6
Sky condition (Octas)	8	8	8	8	-
Relative humidity (%) 0830 hours	95	81	88	91	-
Relative humidity (%) 1730 hours	91	91	77	82	96
Wind Speed (km/h)	4	8	6	6	-
Wind Direction	230	230	230	230	-

Weather forecast for the next five days (From 20-07-2024 to 24-07-2024)

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	12	10	8	8	8
Max. temp (°C)	25.1	27.4	30.6	30.2	30.7
Min.Temp (°C)	18.1	18.4	17.9	18.9	19
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	89	87	85	83	84
Relative humidity (%) 1730 hours	78	70	61	57	57
Wind Speed (kmph)	8	8	8	9	9
Wind Direction	248	248	248	248	248

Forecast Summary

As forecast received from IMD, cloudy sky with moderate rainfall may be expected from 20.07.2024 to 24.07.2024 in Mandya district. The day temperature is expected to be 25.1-30.7°C & night temperature is expected 17.9-19°C. The relative humidity in the morning hours is expected to be 83-89% & afternoon relative humidity is expected to be in the range of 61-78% per cent. Wind speed expected to be 8-9 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
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General Advisory

For pulses, treat the seeds with *Rhizobium* culture and fungicides to ensure healthy germination and to protect against soil-borne diseases.

Rhizobium Inoculation: Mix *Rhizobium* culture with the seeds at the rate of 5-7 grams per kilogram of seed to enhance nitrogen fixation and improve growth.

Fungicide Treatment: Treat seeds with Thiram or Carbendazim @ 2 grams per kilogram of seed to prevent fungal diseases.

Crop Management:

1. Field Crops (e.g., Paddy, Maize, Ragi):

- **Water Management:**
 - With light to moderate rainfall (10-12mm), ensure fields are properly irrigated but avoid waterlogging.
 - Implement rainwater harvesting techniques to collect and store excess rainwater for future use.
- **Nutrient Management:**
 - Apply fertilizers based on soil test recommendations. Consider split applications to avoid nutrient leaching due to rainfall.
 - Use organic manures to improve soil fertility and structure.
- **Weed Control:**
 - Light rainfall may encourage weed growth. Use manual weeding or appropriate herbicides to control weeds.
- **Pest and Disease Management:**
 - Monitor for pests such as stem borers in paddy and maize. Use pheromone traps and biological control methods.
 - High humidity can promote fungal diseases. Apply fungicides as needed and maintain field hygiene.

2. Horticultural Crops (e.g., Vegetables, Fruits):

- **Water Management:**
 - Ensure drip irrigation systems are functioning well to provide adequate moisture without waterlogging.
 - Use mulch to conserve soil moisture and regulate soil temperature.
- **Pest and Disease Management:**
 - Regularly inspect crops for signs of pests and diseases. Use integrated pest management (IPM) practices to control infestations.
 - Apply preventive fungicides in high humidity conditions to protect against fungal diseases.
- **Nutrient Management:**
 - Fertilize based on crop needs and soil test results. Use foliar sprays to address micronutrient deficiencies.
 - Ensure proper staking and support for fruit-bearing plants to prevent damage from wind and rain.
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3. Plantation Crops (e.g., Coconut, Arecanut):

- **Water Management:**
 - Ensure adequate irrigation, especially during periods of low rainfall. Maintain soil moisture levels without causing waterlogging.

- **Disease Management:**
 - Monitor for diseases such as bud rot in coconut and root grubs in arecanut. Apply appropriate treatments as needed.
 - Maintain proper spacing and hygiene to reduce disease incidence.
- **Nutrient Management:**
 - Apply fertilizers based on the specific requirements of the plantation crops. Use organic manures to improve soil health.
 - Mulch around the base of the plants to conserve moisture and suppress weed growth.

4. Livestock Management:

- **Shelter and Hygiene:**
 - Ensure proper shelter for livestock to protect them from rain and fluctuating temperatures.
 - Maintain cleanliness in animal shelters to prevent disease outbreaks.
- **Health Management:**
 - Monitor livestock for signs of illness, especially respiratory issues due to high humidity.
 - Provide clean drinking water and balanced nutrition to maintain animal health.

Maize Fall army worm	Vegatative stage	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.
Coconut	Rugose whitefly	✓ Spraying starch solution (1%) to dislodge the heavy sooty mould deposition on the leaves of infested plants. ✓ Use of yellow sticky traps to trap the adult whiteflies ✓ In case of severe infestation, spray neem oil 0.5%
Tomato Serpentine leaf miner	Fruiting	Larva mines the leaf epidermis, serpentine tunnels on leaves. Spray 0.3 ml. Imidachloprid 17.8 SL. or 2.0 ml. Triazophos 40 EC/lit. water.
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	Rhinoceros beetle	Remove the beetle from infected part and fill 2 % Quinolphos or 5 % Melathion in sand @ 1:1 ratio.

Block level weather forecast (From 20-07-2024 to 24-07-2024)**Krishnarajpet**

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	6.9	3.5	1.9	1	2.4
Max. temp (°C)	24	24.5	26.1	27.2	26.7
Min.Temp (°C)	18.6	18.9	19.1	19.1	19.3
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	87	88	86	86	86
Relative humidity (%) 1730 hours	74	72	67	64	64
Wind Speed (kmph)	25	23	25	25	23
Wind Direction	249	248	248	248	248

Maddur

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	3.7	2.3	0.9	0.2	1.1
Max. temp (°C)	26.9	26.3	27.5	28.7	29.3
Min.Temp (°C)	20.1	20.5	20.5	20.5	21.1
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	85	84	83	84	81
Relative humidity (%) 1730 hours	63	65	62	58	55
Wind Speed (kmph)	25	22	23	23	23
Wind Direction	249	248	248	248	248

Malvalli

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	5.5	2.4	1.4	0.1	1.2
Max. temp (°C)	25.6	25.5	26.6	27.3	28.3
Min.Temp (°C)	19.5	20.3	19.9	19.6	20.4
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	85	83	82	85	81
Relative humidity (%) 1730 hours	64	65	62	58	55
Wind Speed (kmph)	27	24	26	24	24
Wind Direction	248	248	248	248	248

Mandya

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	4.4	2.6	0.9	0.3	1.5
Max. temp (°C)	26	25.5	27	27.9	28.4
Min.Temp (°C)	19.7	20.3	20.2	20	20.6
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	85	84	82	85	82
Relative humidity (%) 1730 hours	64	66	63	59	56
Wind Speed (kmph)	25	23	25	23	24
Wind Direction	249	248	248	248	248

Nagamangala

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	5.8	2.4	0.4	0.3	0.8
Max. temp (°C)	25.6	25.4	27.3	28.7	28.6
Min.Temp (°C)	19.1	19.3	19.6	20.1	20.4
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	84	84	82	81	79
Relative humidity (%) 1730 hours	72	68	63	60	58
Wind Speed (kmph)	27	26	27	27	27
Wind Direction	248	248	248	248	248

Pandavapura

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	5.6	3	1.3	0.7	2.3
Max. temp (°C)	24.9	24.8	26.3	27.1	27.1
Min.Temp (°C)	19.1	19.6	19.6	19.4	19.8
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	87	86	84	87	86
Relative humidity (%) 1730 hours	69	70	66	63	61
Wind Speed (kmph)	25	23	26	24	23
Wind Direction	249	248	248	248	248

Shrirangapattana

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	6	3.3	1.4	0.6	2.2
Max. temp (°C)	24.6	24.5	25.8	26.5	26.8
Min.Temp (°C)	18.8	19.4	19.3	19	19.5
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	87	86	84	87	86
Relative humidity (%) 1730 hours	68	70	67	63	61
Wind Speed (kmph)	26	24	26	24	23
Wind Direction	248	248	248	248	248

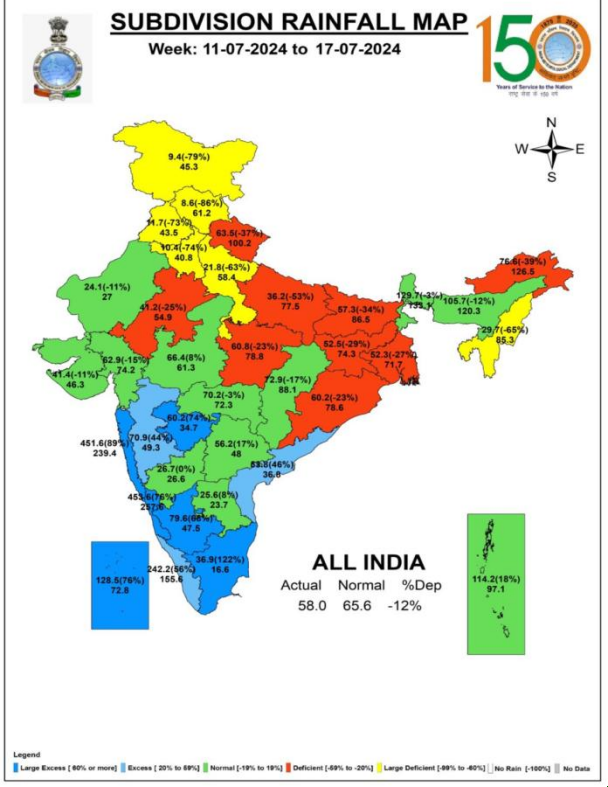
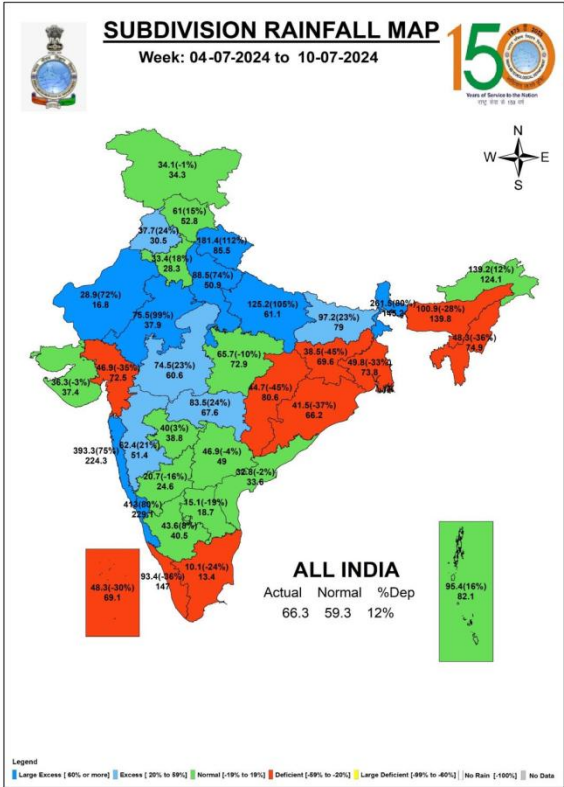
- Download “**DAMINI**” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “**MAUSAM**” APP for location specific forecast & warning & “**MEGHDOOT**” APP for Agromet advisory
- This information is available in the website: mausam.imd.gov.in

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

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

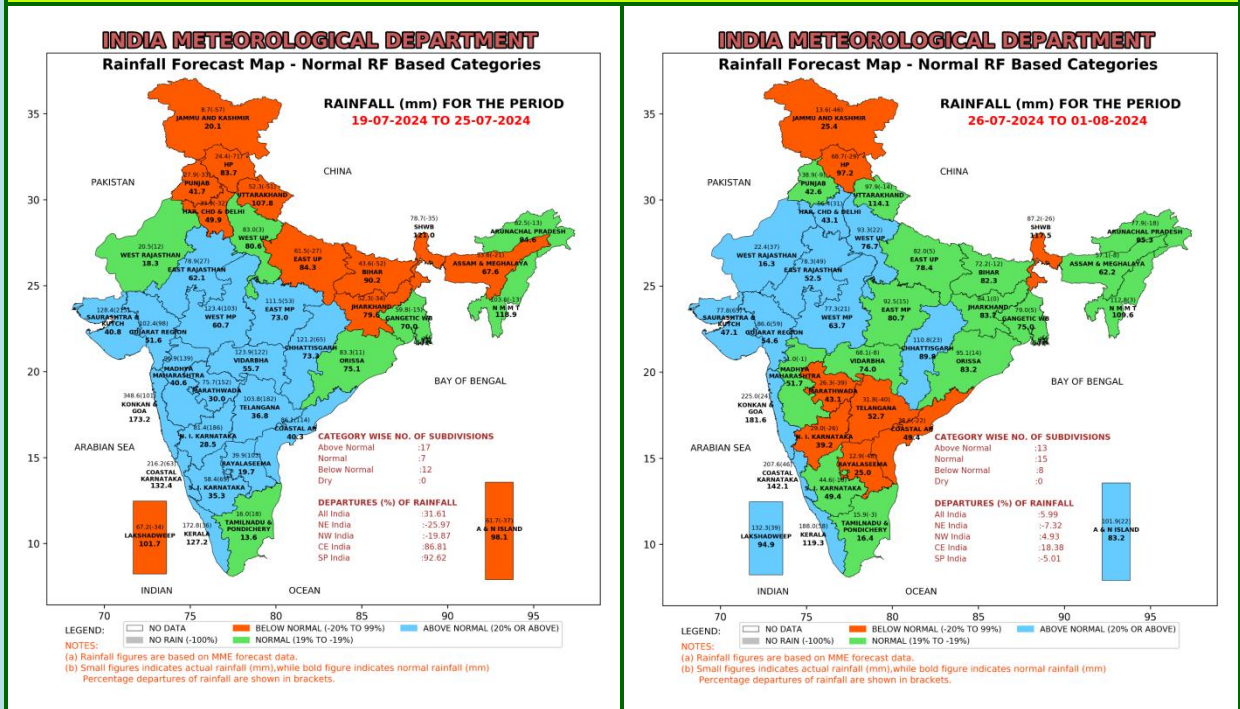
Realized Rainfall
(04th to 17th July, 2024)



Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 17th July, 2024)

(19th July to 01st August, 2024)



- **Week 1 (19.07.2024 to 25.07.2024):** Rainfall is likely to be above normal over Central parts of India and adjoining South India. However, it is likely to be below normal over Northwest India, Northeast India and parts of East India.
- **Week 2 (26.07.2024 to 01.08.2024):** Rainfall is likely to be above normal over many parts of Central India, some parts of Northwest India & East India and along west coast. However, it is likely to be below normal over Jammu & Kashmir, Himachal Pradesh, Northeast India and many parts of South India.

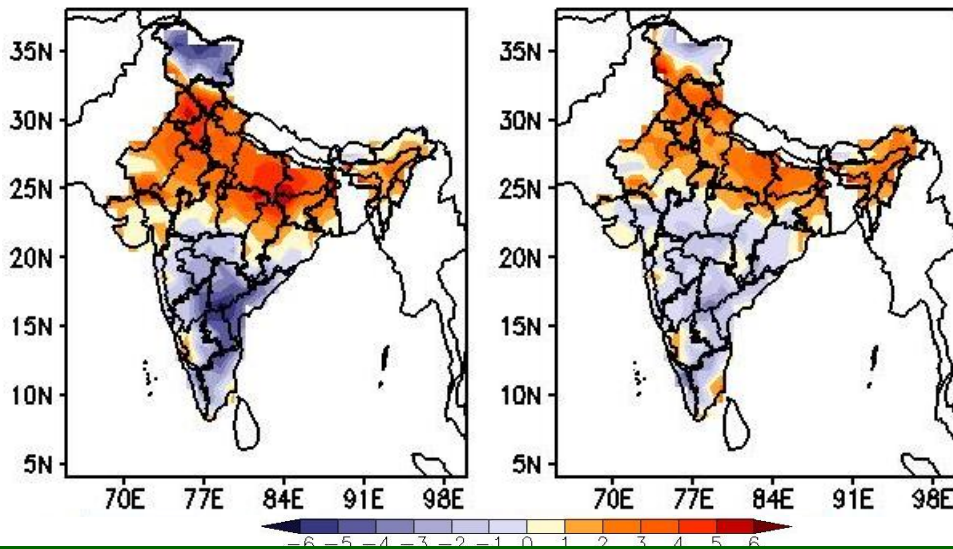
Maximum and Minimum temperature anomaly (°C) forecast for the next 2 weeks (IC- 17th July, 2024)

(19th July to 01st August, 2024)

MME forecast Tmax anomaly (Deg C)

(Week1: 19Jul-25Jul)

(Week2: 26Jul-01Aug)



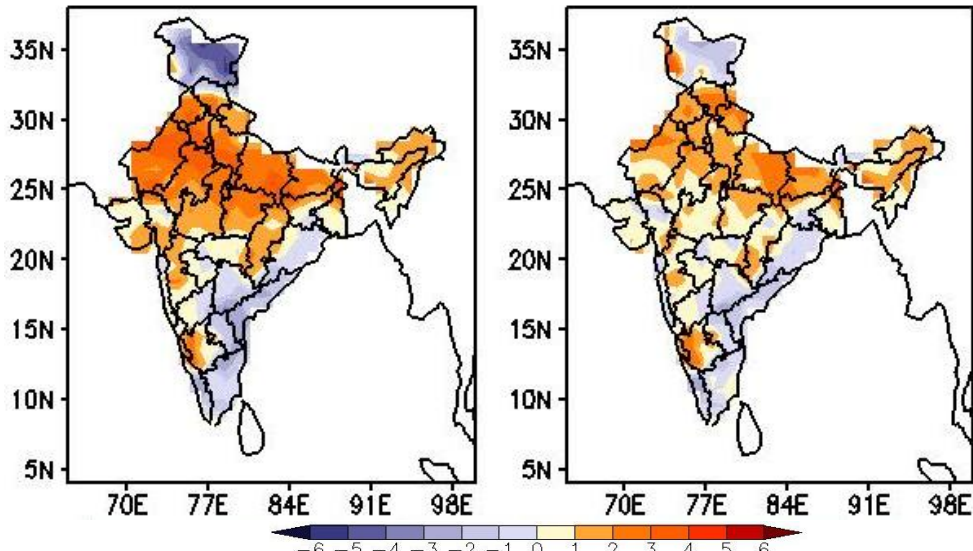
Maximum Temperature (Tmax)

- **Week 1 (19.07.2024 to 25.07.2024):** Maximum temperature is likely to be above normal over Northwest India, East India and Northeast India.
- **Week 2 (26.07.2024 to 01.08.2024):** Maximum temperature is likely to be above normal over Northwest India, Northeast India and some parts of East India.

MME forecast Tmin anomaly (Deg C)

(Week1: 19Jul–25Jul)

(Week2: 26Jul–01Aug)



Minimum Temperature (Tmin)

- **Week 1 (19.07.2024 to 25.07.2024) and Week 2 (26.07.2024 to 01.08.2024):** Minimum temperature likely to be above normal over most parts of the country except Kerala, Telangana and regions along East Coast.