

**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 KODAGU 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)	36.5	46.5	57.5	43	96.5
Max. Temp. (°C)	25.4	23.9	22.8	24.2	22.4
Min. Temp. (°C)	20.2	20.4	20.9	20.8	20.3
Sky condition (Octas)	-	-	-	-	-
Relative humidity (%) 0830 hours	100	100	100	100	100
Relative humidity (%) 1730 hours	100	100	100	100	100
Wind Speed (km/h)	-	-	-	-	-
Wind Direction	-	-	-	-	-

**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)	120	110	39	20	14
Max. Temp. (°C)	25.5	26.6	26.9	28	27.8
Min. Temp. (°C)	17.8	17.9	17.6	18.4	18.8
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	95	95	94	95	95
Relative humidity (%) 1730 hours	92	87	86	80	82
Wind Speed (kmph)	4	4	4	4	4
Wind Direction	248	248	238	248	248

**Forecast Summary**

As forecast received from IMD, cloudy sky with **moderate to heavy rainfall** may be expected from 20.07.2024 to 24.07.2024 in Kodagu district. The day temperature is expected to be 25.5-28°C & night temperature is expected 17.6-18.8°C. The relative humidity in the morning hours is expected to be 94-95% & afternoon relative humidity is expected to be in the range of 80-92%. Wind speed expected to be 4 km/ hr.

## Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures
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### General Advisory:

**Safety:** Avoid fieldwork during heavy rain to prevent accidents. Ensure workers have proper rain gear.

**Equipment Maintenance:** Keep agricultural equipment covered and perform regular maintenance to prevent damage from moisture.

### Crop Management:

#### 1. Coffee Plantations:

- **Water Management:**
  - **High Rainfall (85mm on 17th July):** Ensure proper drainage to prevent waterlogging around the root zone.
  - **Moderate to Low Rainfall (65mm to 19mm on subsequent days):** Monitor soil moisture and adjust irrigation accordingly. Avoid over-irrigation.
- **Fungal Disease Control:**
  - **High Humidity (94-96% in the mornings):** Ideal conditions for fungal diseases like coffee rust. Regularly inspect plants and apply preventive fungicides. Ensure proper air circulation within the plantation by pruning excess foliage.
  - **Evening Humidity (88-92%):** Maintain cleanliness in the plantation to reduce the risk of fungal infections. Remove any infected plant parts and dispose of them properly.
- **Nutrient Management:**
  - **Nutrient Leaching:** High rainfall may lead to nutrient leaching. Apply balanced fertilizers based on soil test recommendations. Use slow-release fertilizers to ensure a steady supply of nutrients.
  - **Mulching:** Apply mulch to conserve soil moisture and prevent weed growth.
- **Pest Management:**
  - **Regular Monitoring:** High humidity can encourage pest activity. Monitor for common pests like coffee berry borer and use appropriate control measures, including biological control agents.
  - **Integrated Pest Management (IPM):** Implement IPM practices such as using pheromone traps, natural predators, and organic pesticides.

#### 2. Pepper Plantations:

- **Water Management:**
  - Ensure proper drainage to avoid waterlogging. During periods of high rainfall, check for standing water around the vines and take corrective measures.
- **Disease Control:**
  - **Phytophthora Foot Rot:** High rainfall and humidity can promote Phytophthora infections. Apply recommended fungicides as a preventive measure. Ensure good drainage and avoid water stagnation.
  - **Anthraxnose:** Monitor for anthracnose symptoms and apply appropriate fungicides. Maintain plant hygiene by removing and destroying affected plant parts.
- **Support and Training:**
  - Ensure proper staking and training of pepper vines to prevent damage from heavy rains and winds. Use strong, durable materials for staking.
- **Nutrient Management:**
  - Apply fertilizers based on soil test results. Split applications of fertilizers can help in efficient nutrient uptake and reduce leaching losses.

### 3. Cardamom Plantations:

- **Water Management:**
  - Proper drainage is crucial to prevent waterlogging, which can cause root diseases. Implement contour trenches and other water conservation methods.
- **Disease Management:**
  - **Rhizome Rot and Leaf Blight:** High humidity increases the risk of these diseases. Apply appropriate fungicides and ensure good air circulation in the plantation.
  - **Regular Inspection:** Conduct regular inspections for early detection of diseases and take timely action.
- **Shade Management:**
  - Maintain optimal shade levels. Excessive shade can increase humidity and disease incidence, while too little shade can stress the plants.
- **Harvesting and Post-Harvest Management:**
  - Plan harvesting activities during periods of low rainfall to ensure the quality of the produce. Properly dry and store the harvested cardamom to prevent mold and spoilage.

### Horticulture:

#### Fruits (Citrus, Banana):

**Pruning:** Remove any dead or diseased branches to prevent the spread of disease.

**Nutrient Management:** Apply necessary nutrients to support growth, especially with the expected rainfall.

**Rainwater Harvesting:** Set up rainwater harvesting systems to capture and store rainwater for irrigation during drier periods.

#### Livestock Management:

**Shelter:** Provide adequate shelter to protect livestock from rain and maintain dry bedding to prevent infections.

**Feed Storage:** Keep feed dry and protected from moisture to avoid spoilage.

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

#### Madikeri

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	34.4	21.3	22	7.8	6.1
Max. temp (°C)	24.5	25.2	25.1	25.6	26.3
Min.Temp (°C)	20.1	20.3	20.2	20.4	20.4
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	97	97	97	97	97
Relative humidity (%) 1730 hours	95	94	95	93	91
Wind Speed (kmph)	14	13	12	12	12
Wind Direction	257	252	248	248	248

### Somvarpet

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	16.8	8.9	8.4	3.8	3.9
Max. temp (°C)	23.1	23.7	23.5	24.5	24.5
Min.Temp (°C)	18.5	18.7	18.7	18.8	19
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	94	94	94	93	93
Relative humidity (%) 1730 hours	92	90	90	87	87
Wind Speed (kmph)	21	20	19	19	18
Wind Direction	257	248	248	248	248

### Virajpet

Parameter	20.07.2024	21.07.2024	22.07.2024	23.07.2024	24.07.2024
Rainfall (mm)	22.4	11.1	12.9	4.5	4.2
Max. temp (°C)	24.8	25.4	25.4	26.2	27
Min.Temp (°C)	21	21.2	21	21.1	21.4
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	97	97	97	97	96
Relative humidity (%) 1730 hours	93	92	93	90	85
Wind Speed (kmph)	12	12	11	10	11
Wind Direction	248	248	248	248	248

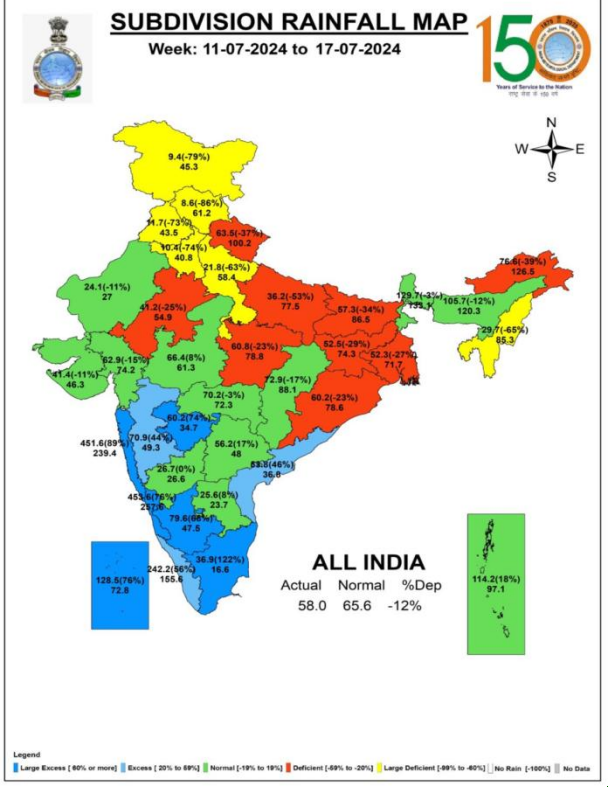
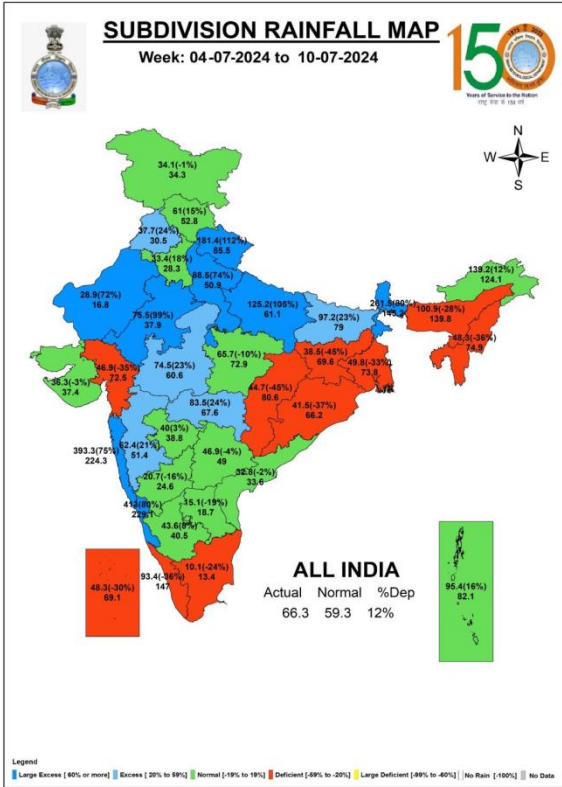
- Download “DAMINI” app to get early warning on lightening and take precautions based on the alert given by the application.
- Kindly download “MAUSAM” APP for location specific forecast & warning & “MEGHDOOT” APP for Agromet advisory
- This information is available in the website: [mausam.imd.gov.in](http://mausam.imd.gov.in)

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

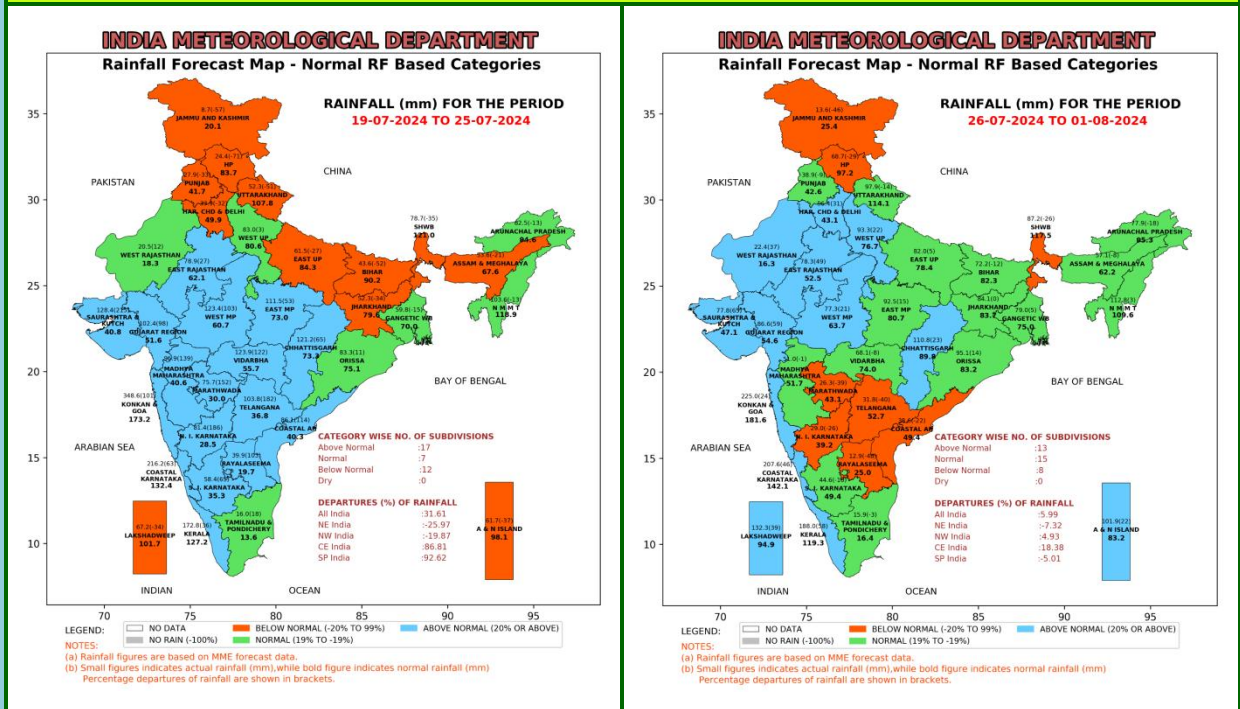
वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान  
**Realized Rainfall and Extended Range Forecast**  
 (वर्षा और तापमान)  
**(Rainfall and Temperature)**

**Realized Rainfall**  
**(04<sup>th</sup> to 17<sup>th</sup> July, 2024)**



## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC- 17<sup>th</sup> July, 2024) (19<sup>th</sup> July to 01<sup>st</sup> August, 2024)



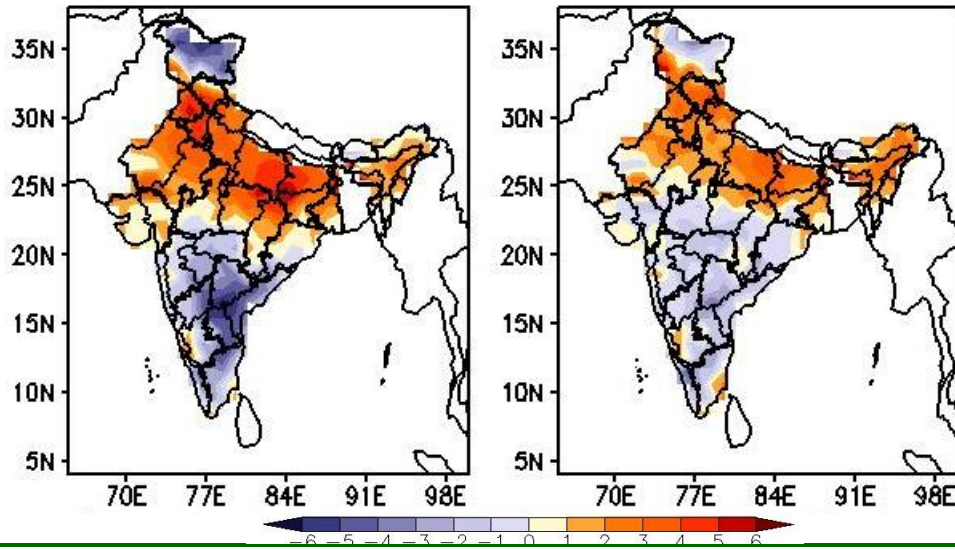
- **Week 1 (19.07.2024 to 25.07.2024):** Rainfall is likely to be above normal over Central parts of India and adjoining South India. However, it is likely to be below normal over Northwest India, Northeast India and parts of East India.
- **Week 2 (26.07.2024 to 01.08.2024):** Rainfall is likely to 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- 17<sup>th</sup> July, 2024) (19<sup>th</sup> July to 01<sup>st</sup> August, 2024)

## MME forecast Tmax anomaly (Deg C)

(Week1: 19Jul-25Jul)

(Week2: 26Jul-01Aug)



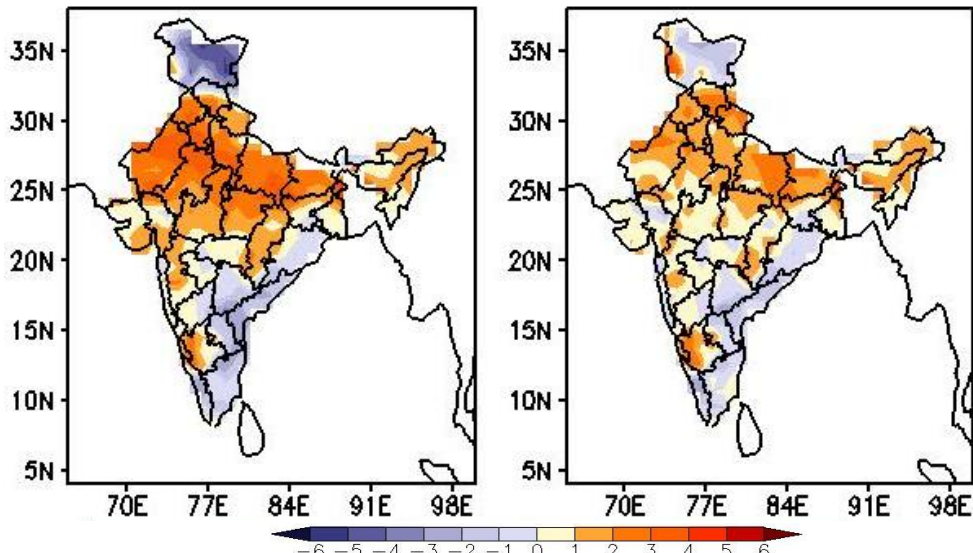
### Maximum Temperature (Tmax)

- **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.