UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

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MYSURU - 570003

Date: 19-07-2024

AGRO-ADVISORY BULLETIN FOR CHAMARAJANAGARA 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)	5	6	4	2	4
Max. Temp. (°C)	27.8	26.3	26.2	27.5	26.7
Min. Temp. (°C)	21.5	22	22.3	22	22
Sky condition (Octas)	-	-	-	-	-
Relative humidity (%) 0830 hours	100	91	96	96	92
Relative humidity (%) 1730 hours	78	84	92	92	95
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)	12	10	8	8	6
Max. Temp. (°C)	29.6	29.8	34.5	33.6	33.9
Min.Temp. (°C)	16.7	17.1	16.7	17.5	17.5
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	86	83	80	81	80
Relative humidity (%) 1730 hours	71	66	54	52	52
Wind Speed (kmph)	8	4	4	5	5
Wind Direction	248	248	249	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 Chamarajanagara district. The day temperature is expected to be 29.6-34.5°C & night temperature is expected 16.7-17.5°C. The relative humidity in the morning hours is expected to be 80-86% & afternoon relative humidity is expected to be in the range of 52-71%. Wind speed expected to be 4-8 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures

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.

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 (l00ml/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%**
Cowpea	**Pod borer**	**Caterpillar bore the pods and feed on seeds. Infested pods with hole.** **On tender pods spray Chlorpyriphos - 20 EC. @ 2 ml./lit. water. 300 lit. spray solution/acre.**
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**	• **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 exceeds10 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)					
Chamarajanagara					
Parameter	**20.07.2024**	**21.07.2024**	**22.07.2024**	**23.07.2024**	**24.07.2024**
Rainfall (mm)	2	0	0	0	0
Max. temp (°C)	20.6	21.7	22.5	21.2	23.4
Min.Temp (°C)	17.2	17.6	17.2	17	18
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	80	78	78	80	77
Relative humidity (%) 1730 hours	68	59	58	61	53
Wind Speed (kmph)	33	33	32	30	30
Wind Direction	248	248	248	248	248

Gundlupete					
Parameter	**20.07.2024**	**21.07.2024**	**22.07.2024**	**23.07.2024**	**24.07.2024**
Rainfall (mm)	2	0.3	0.2	0	0.1
Max. temp (°C)	20.5	21.8	22.1	21.4	23.2
Min.Temp (°C)	17.4	17.8	17.3	17.2	18
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	84	82	82	84	82
Relative humidity (%) 1730 hours	73	66	67	67	60
Wind Speed (kmph)	32	31	30	28	27
Wind Direction	248	248	248	248	248

Kollegala					
Parameter	**20.07.2024**	**21.07.2024**	**22.07.2024**	**23.07.2024**	**24.07.2024**
Rainfall (mm)	2.5	0	0	0	0
Max. temp (°C)	23.9	24.4	25.3	24.5	26.2
Min.Temp (°C)	18.7	19.4	19	18.8	19.7
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	81	78	78	80	77
Relative humidity (%) 1730 hours	66	60	59	59	53
Wind Speed (kmph)	34	33	32	31	31
Wind Direction	248	248	248	248	248

Yelandur					
Parameter	**20.07.2024**	**21.07.2024**	**22.07.2024**	**23.07.2024**	**24.07.2024**
Rainfall (mm)	2.8	0.1	0.2	0	0.1
Max. temp (°C)	22	22.7	23.7	22.6	24.4
Min.Temp (°C)	17.7	18.2	17.8	17.6	18.5
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	81	78	78	81	78
Relative humidity (%) 1730 hours	67	60	59	61	54
Wind Speed (kmph)	34	33	32	30	31
Wind Direction	248	248	248	248	248

Hanur					
Parameter	**20.07.2024**	**21.07.2024**	**22.07.2024**	**23.07.2024**	**24.07.2024**
Rainfall (mm)	5.5	0.4	0.3	0	0.2
Max. temp (°C)	24	24.6	25.7	24.7	26.3
Min.Temp (°C)	19	19.7	19.2	19.1	20.1
Sky condition (Octas)	8	8	8	8	7
Relative humidity (%) 0830 hours	84	80	80	82	79
Relative humidity (%) 1730 hours	73	65	63	64	58
Wind Speed (kmph)	31	30	29	28	28
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

वास्तविकवर्षातथाविस्तारितअवधिपूर्वानुमान

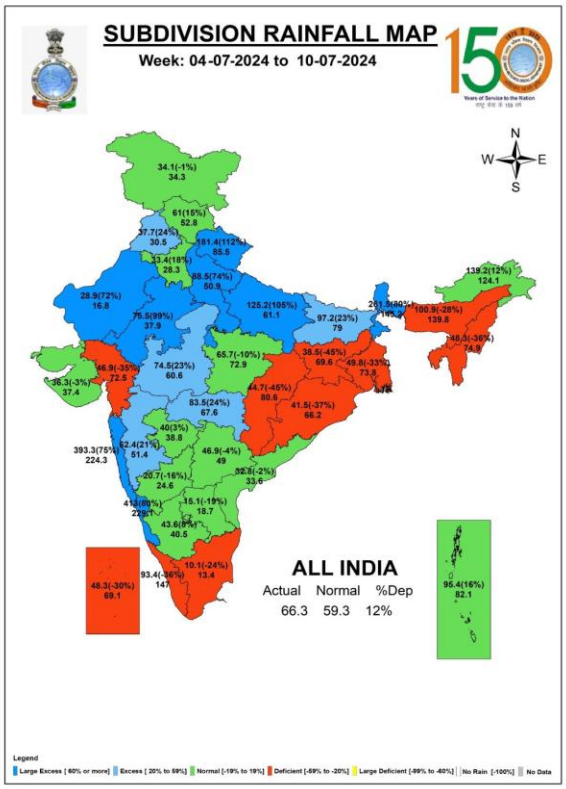
Realized Rainfall and Extended Range Forecast

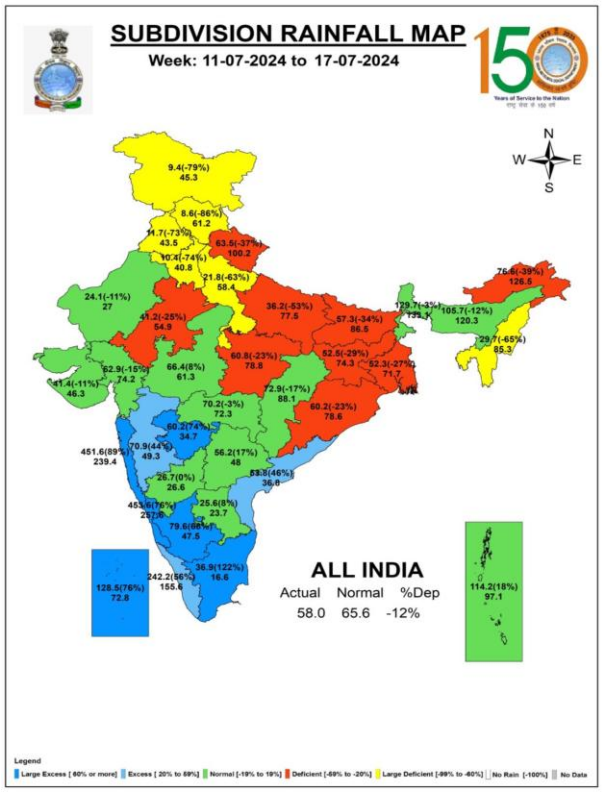
(वर्षाऔरतापमान)

(Rainfall and Temperature)

Realized Rainfall

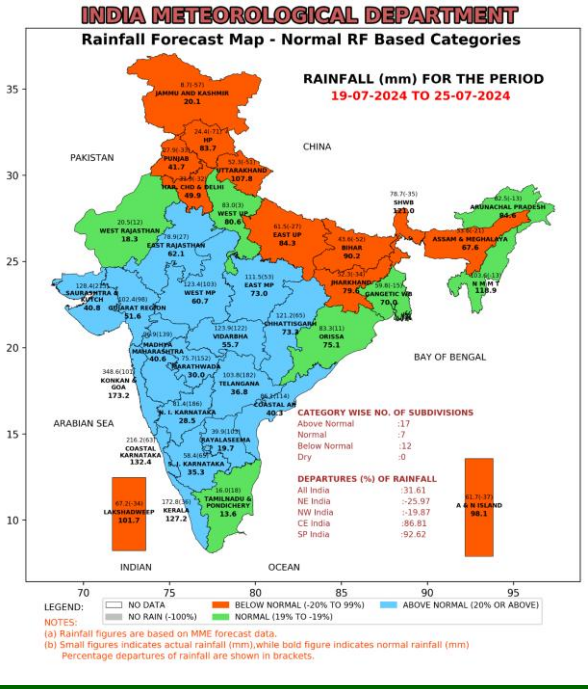
(04th to 17th July,2024)

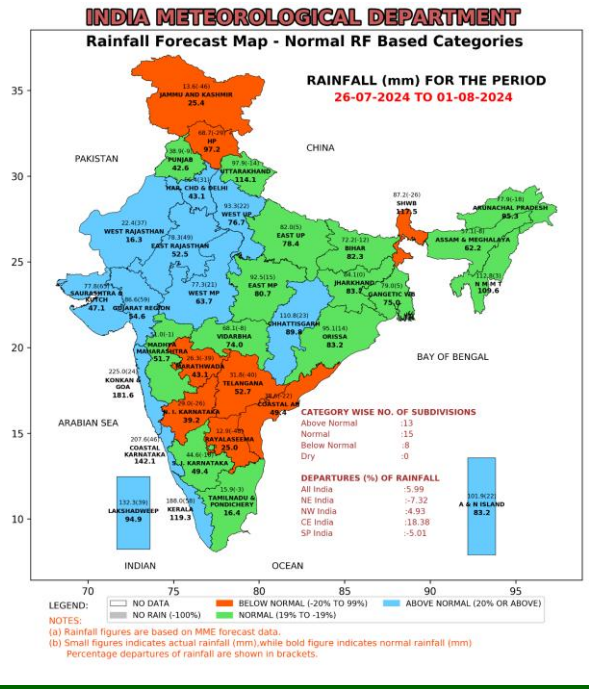




Extended Range Forecast System

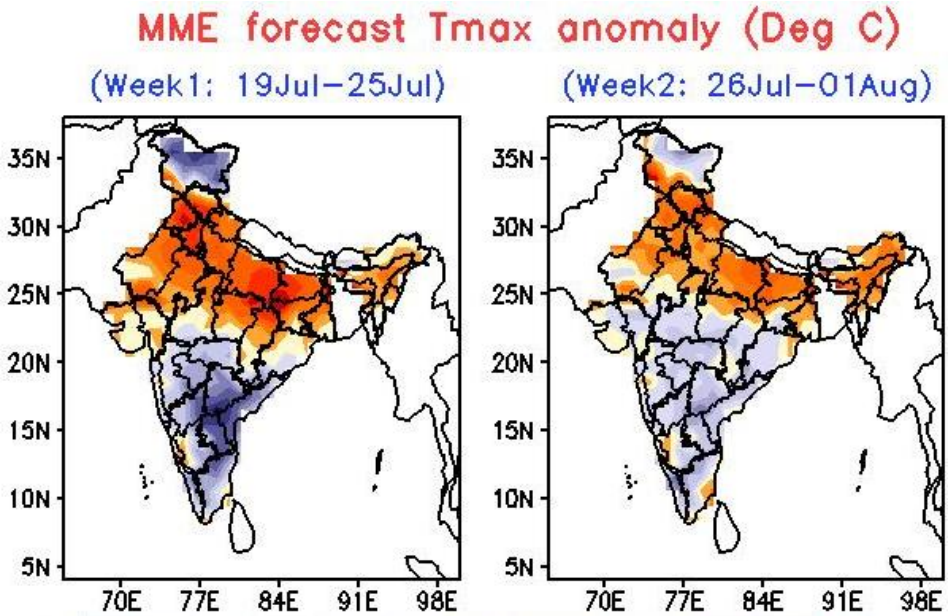
Rainfall forecast maps for the next 2 weeks (IC- 17th July, 2024)
(19th July to 01st August, 2024)

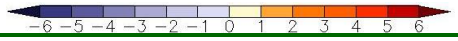




- **Week 1 (19.07.2024 to 25.07.2024):** Rainfall is likely to be above normal over Central parts of India and adjoining South India. However, it is likely to be below normal over Northwest India, Northeast India and parts of East India.
- **Week 2 (26.07.2024 to 01.08.2024):**Rainfall is likely to be 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.

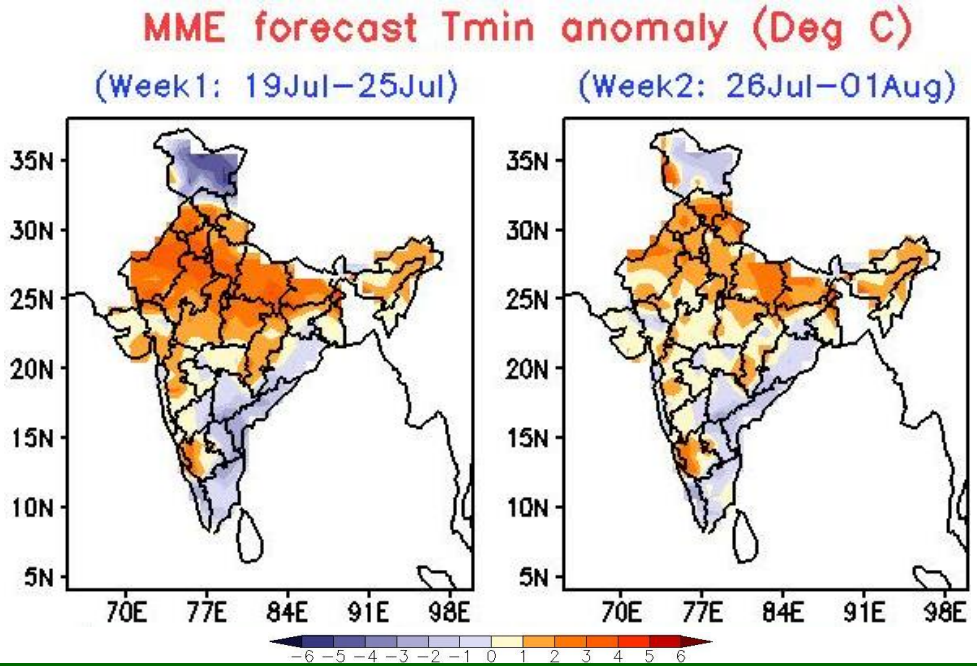
Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 17th July, 2024)
(19th July to 01st August, 2024)





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.



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.