UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

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MYSURU - 570003

Date: 27-09-2024

AGRO-ADVISORY BULLETIN FOR MANDYA DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	24.09.2024	25.09.2024	26.09.2024	27.09.2024
Rainfall (mm)	0	0	0	0
Max. Temp. (°C)	31.6	30.6	31	31.2
Min. Temp. (°C)	-	22.3	21.5	21.2
Sky condition (Octas)	8	8	8	8
Relative humidity (%) 0830 hours	79	84	79	78
Relative humidity (%) 1730 hours	312	60	58	56
Wind Speed (km/h)	4	4	0	6
Wind Direction	230	230	90	230

Weather forecast for the next five days (From 28-08-2024 to 02-10-2024)

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	3	7	9	8	7
Max. temp (°C)	31.1	32.2	31.3	32.3	32.1
Min.Temp (°C)	17.4	19.5	20.2	19.8	19.8
Sky condition (Octas)	7	5	5	6	7
Relative humidity (%) 0830 hours	95	90	88	87	91
Relative humidity (%) 1730 hours	55	49	56	52	51
Wind Speed (kmph)	12	7	7	8	9
Wind Direction	248	240	108	135	248

Forecast Summary

As forecast received from IMD, cloudy sky with light rainfall may be expected from 28.09.2024 to 02.10.2024 in Mandya district. The day temperature is expected to be 31.1-32.3°C & night temperature is expected 17.4-20.2°C. The relative humidity in the morning hours is expected to be 87-95% & afternoon relative humidity is expected to be in the range of 49-56% per cent. Wind speed expected to be 8-12 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures

Crops and varieties that can be grown in the month of August

Finger millet : Indaf-7, Indaf-9, KMR-301, GPU-45, KMR-316
Paddy : MSN-99
Maize : Hema, Nityashree, MAH-14-5
Rabi Maize : M-35-1, Nose (5-4-1), CSH-10
Popcorn : Amber
Sunflower: KBSH-41, KBSH-42, KBSH-44, KBSH53, KBSH-78, KBSH-85
Soybean: MAUS-2 (Praja), Karune (Vegetable Soybean), KBS-23
Niger: KBN-1, No-71
Cowpea : TVK-944-02E, KBC-1, KBC-2, KBC-9, IT-98456-1, KM-5, KC-8 (K .BC-11)
Horse gram : PHG-9, KBH-1 5209: 2.20-8371, 2.2.A.2-99463 (Vishal), VCF-0517 (Baahubali), 222-18061
Horticulture Crops: Banana, Arecanut, Pineapple, Cauliflower, Onion
Fodder crops:
Maize : African Tall;
Maize: MP Chari, Pusachari, JS-3, GS-20, COFS-29;
Bajra: Dhina Bandhu- 49A;
Cowpea: KBC-2

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

- ✓ Since there is light rainfall and rising temperatures, ensure timely irrigation for all crops, especially those in critical growth stages such as vegetative, flowering, and fruiting.
- ✓ Drip irrigation or furrow irrigation can be employed to minimize water wastage and provide consistent moisture to the crops.
- ✓ Apply organic mulches (like straw or dry leaves) around the base of crops to conserve soil moisture, reduce soil temperature, and prevent weed growth.
- ✓ High temperatures can cause nutrient deficiencies. Monitor the crops and apply fertilizers based on soil testing to ensure healthy growth.
- ✓ Foliar sprays of micronutrients can help alleviate nutrient stress caused by dry conditions.
- ✓ Weed competition for water and nutrients should be minimized. Perform manual or chemical weeding based on the crop type.
- ✓ With dry weather and high temperatures, monitor crops for pest infestations, such as sucking pests (aphids, whiteflies), which thrive in such conditions.
- ✓ Use neem-based bio-pesticides or pheromone traps to control pests, and ensure proper field hygiene to minimize disease occurrence.
- ✓ Use shading nets for heat-sensitive crops, especially vegetables, to reduce temperature stress and protect young plants from direct sunlight.

Crop	Stage	Weather-Based Advisory
Field Bean	Harvesting	- Complete harvesting before rainfall on 28th and 29th Sept. to avoid quality loss.
Banana	Bunch Development	- Support the plants with props to avoid lodging due to expected winds (up to 17 km/h). - Provide light irrigation until rainfall.
Paddy	Vegetative Stage	- Ensure proper drainage during rainfall to avoid waterlogging. - Continue monitoring for pest and disease attacks.
Ragi	Vegetative Stage	- Provide light irrigation until rainfall begins. - Maintain soil moisture and avoid water stress.

Red Gram	Vegetative Stage	- Apply organic mulch to conserve soil moisture. - Light irrigation before the rainfall can support growth.
Papaya	Vegetative Stage	- Support plants with stakes to avoid damage from strong winds. - Mulching around plants to conserve moisture is advisable.
Brinjal	Fruiting Stage	- Harvest mature fruits before 28th Sept. rainfall. - Ensure drainage to prevent fruit rot from excess moisture.
Chilli	Flowering Stage	- Avoid water stress; light irrigation is beneficial before expected rains. - Monitor for flower drop due to fluctuating moisture.
Cotton	Boll Formation	- Avoid waterlogging to prevent boll rot. - Support plants against possible winds on 28th and 29th Sept.
Coconut, Arecanut, Cocoa, Pepper	Various Stages	- Maintain mulch around trees for moisture conservation. - Inspect trees for pest infestations after rains.
Coffee	Berry Development	- Mulch and irrigation management until rainfall begins. - Monitor for berry borer after rainfall events.
Ginger	Harvesting	- If nearing maturity, harvest before the rainfall to avoid rhizome rot. - Dry the harvested crop in a covered area.
Sugarcane	Vegetative Stage	- Continue irrigation till rainfall occurs. - Ensure drainage during heavy rains to prevent root lodging.
Coconut black headed caterpillar	Various stages	• Remove and burn the severly affected fronds. • On community basis feed the Manocrotophos 36 SL. to the palm through root. 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. • 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. **Caution**: Not to harvest tender coconuts/matured coconuts for 30 days from date of chemical treatment.
Papaya mosaic ring spot virus	Fruit development	Nursery may be raised in 40 - 50 mesh nylon netting for a period of 60 days then plant. Around the garden 2 - 3 rows of African tall Maize should be grown on border crodiv. 30 - 40 days prior to papaya palnting. Again after 2 months resowing of Maize by the side of previous Maize crodiv. Throughout the papaya cropping period maintain border crop of Maize. For control of sucking pests spray Dimethoate - 1.7 ml. /lit. water. Periodical spray is necessary. Note: June - July papaya planting can minimise the disease problem. Select disease free seedlings for planting.

Paddy Leaf folder	Vegetative stage	Apply any one of the following insecticides per lit. water a) Quinalphos 25 EC. - 2.0 ml. b) Indoxacarb 14.5 SC. - 0.5ml. c) Flubendiamide 48 SC. - 0.08ml. d) Flubendiamide 20 WG. - 0.2 g. Drain out the water and spray the insecticide. 250 - 300 lit. spray mixture requires per acre.
Red gram wilt	Vegetative stage	5.0 g. Trichoderma viridae OR 3.0 g. Carbendazim + Mancozeb 75 WP.then sown. In wilt endemic areas before sowing enriched Trichoderma FYM incorporated to soil OR Sow wilt resistant red gram variety BRG 5 or Maruthi (ICP 8863).
Paddy Yellow stem borer	Vegetative stage	If infestation noticed, apply any one of the following insecticides per lit. water a) Monocrotophos 36 SL. - 1.5 ml. b) Chlorpyriphos 20 EC. - 2.0 ml. c) Flubendiamide 48 SC. - 0.08 ml. d) Flubendiamide 20 WG. - 0.2 g. Granular insecticide - kg./acre a) Fipronil 0.3 G - 10.0 b) Carbofuran 3 G - 8.0 N.B: Before application of granular insecticides, drain out the water and apply granules. Two days after application irrigate lightly.
Coconut	Rhinoceros beetle	Remove the adult beetle from crown of the palm by means of iron hook. Quinalphos 1.5 D. OR Malathion 5 D. mix with equal quantity of sand and plug the hole with mixture. Avoid FYM pits in and around coconut garden OR Mix 350 g.Quinalphos 1.5 D/ 3 m2 of FYM.
Paddy leaf and neck blast	Transplanting to Vegetative	> Seed treatment: Treat the seeds @ 4 g. Carbendazim 50 WP. or Tricyclazole 75 WP. @ 0.6 g./kg. seed. Nursery spray > When seedlings are 10 -12 days old spray any one of the following fungicides to a lit. water. a) Carbendazim 50 WP. - 1.0 g. b) Tricyclazole 75 WP. - 0.6 g. c) Edifenphos 50 EC. - 1.0 ml. d) Kitazin 48 EC. - 1.0 ml. 20 - 25 days after transplanting if disease incidence above 5 per cent sprays any one fungicide mention above. If necessary spray at flowering stage. 200 - 300 lits. spray solution/acre.
Coconut Eriophyid mites	-	Addtition to application of recommended NPK add 1 kg. Gypsum, 50 g. Boran, 5 kg. neem oil cake/palm. Spray 80 WP. Sulphur @ 4 g./lit. water on 2 - 6 months old tender nuts. Root feeding the mixture of 7.5 ml. Neemzol. OR

		10 ml. Econeem with equal quantity of water.

Poultry and Livestock

Category	Condition	Recommendation
Poultry	General	• Use ventilation, exhaust fans, and sprinklers to cool the poultry house. Wet the roof or use a misting system to reduce heat. • Provide cool, clean water with electrolytes and vitamins (e.g., Vitamin C) to reduce heat stress. • Feed during early morning or late evening to avoid heat stress. • Litter Management: Keep litter dry to prevent ammonia build-up and respiratory issues.
Livestock	General	• Provide fresh, clean water and electrolyte solutions to avoid dehydration and heat stress. • Ensure shaded or ventilated shelters. Use fans or sprinklers in sheds to cool livestock. • Feed green fodder and silage. Avoid heat-generating feeds like excessive grains. • Monitor for signs of heat stress and deworm/vaccinate to prevent disease outbreaks.

Block level weather forecast (From 25-09-2024 to 29-09-2024)

Krishnarajpet

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	2.2	9.9	13.7	2.5	6.9
Max. temp (°C)	28.3	31	30.6	30.7	31.7
Min.Temp (°C)	18.9	21.5	22.2	22.4	22.2
Sky condition (Octas)	7	6	5	5	7
Relative humidity (%) 0830 hours	92	87	91	88	88
Relative humidity (%) 1730 hours	53	47	57	51	46
Wind Speed (kmph)	11	8	7	7	8
Wind Direction	283	315	108	75	255

Maddur

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	0.5	1.2	4	0	3.1
Max. temp (°C)	30	31.9	31.6	31.5	32.9
Min.Temp (°C)	20.3	23.6	22.6	22.7	22.8
Sky condition (Octas)	7	6	4	3	6
Relative humidity (%) 0830 hours	93	83	91	84	90
Relative humidity (%) 1730 hours	59	50	54	50	48

Wind Speed (kmph)	10	5	7	6	6
Wind Direction	248	56	135	124	245

Malvalli					
Parameter	**28.09.2024**	**29.09.2024**	**30.09.2024**	**01.10.2024**	**02.10.2024**
Rainfall (mm)	0.1	5.1	0.3	0	1.7
Max. temp (°C)	29.2	31	30.7	31	32.4
Min.Temp (°C)	19.4	22.5	21.8	22	22
Sky condition (Octas)	7	6	4	3	6
Relative humidity (%) 0830 hours	94	84	88	82	89
Relative humidity (%) 1730 hours	55	49	54	47	46
Wind Speed (kmph)	11	4	7	7	8
Wind Direction	248	90	115	116	245

Mandya					
Parameter	**28.09.2024**	**29.09.2024**	**30.09.2024**	**01.10.2024**	**02.10.2024**
Rainfall (mm)	0	11.6	1.9	0	2
Max. temp (°C)	29.5	31.4	30.9	31.2	32.5
Min.Temp (°C)	19.6	22.7	22.1	22.3	22.3
Sky condition (Octas)	7	6	4	4	6
Relative humidity (%) 0830 hours	92	84	91	86	90
Relative humidity (%) 1730 hours	58	49	56	49	47
Wind Speed (kmph)	11	6	8	7	9
Wind Direction	248	45	126	203	245

Nagamangala					
Parameter	**28.09.2024**	**29.09.2024**	**30.09.2024**	**01.10.2024**	**02.10.2024**
Rainfall (mm)	1.1	5	10.6	0.1	1.8
Max. temp (°C)	30.1	31.8	31.4	31.5	32.4
Min.Temp (°C)	19.6	21.8	22.1	22.4	22.7
Sky condition (Octas)	7	6	5	4	6
Relative humidity (%) 0830 hours	92	87	93	86	87
Relative humidity (%) 1730 hours	56	49	56	52	49
Wind Speed (kmph)	12	6	8	7	7
Wind Direction	270	342	114	90	255

Pandavapura					
Parameter	**28.09.2024**	**29.09.2024**	**30.09.2024**	**01.10.2024**	**02.10.2024**
Rainfall (mm)	1.3	17.7	8.1	0.2	7.6
Max. temp (°C)	28.5	31.1	30.5	30.7	32.2
Min.Temp (°C)	19	21.9	21.9	22.1	22
Sky condition (Octas)	7	6	5	5	7
Relative humidity (%) 0830 hours	93	85	92	89	89
Relative humidity (%) 1730 hours	56	48	57	50	47
Wind Speed (kmph)	11	7	7	7	9
Wind Direction	270	60	146	108	245

Shrirangapattana					
Parameter	**28.09.2024**	**29.09.2024**	**30.09.2024**	**01.10.2024**	**02.10.2024**
Rainfall (mm)	2	19.7	7.2	0.3	8.1
Max. temp (°C)	27.9	30.4	30	30.3	31.8
Min.Temp (°C)	18.5	21.4	21.3	21.5	21.2
Sky condition (Octas)	7	6	5	5	7
Relative humidity (%) 0830 hours	94	86	91	88	90
Relative humidity (%) 1730 hours	56	48	57	50	46
Wind Speed (kmph)	11	7	8	8	9
Wind Direction	252	60	135	207	245

- 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)

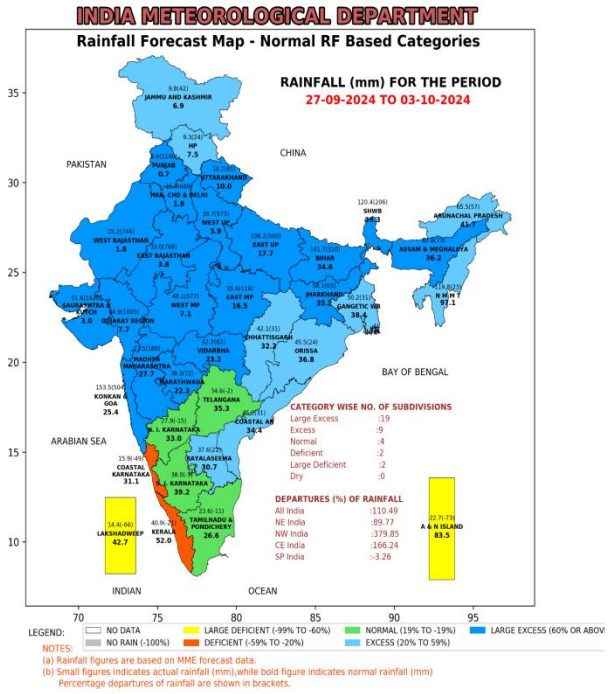
(Rainfall and Temperature)

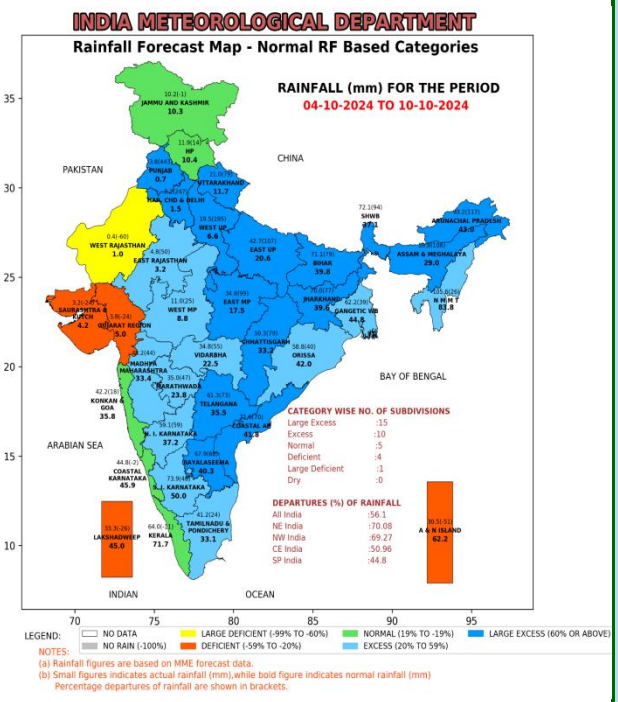
Realized Rainfall

(12th to 25th September,2024)

Extended Range Forecast System

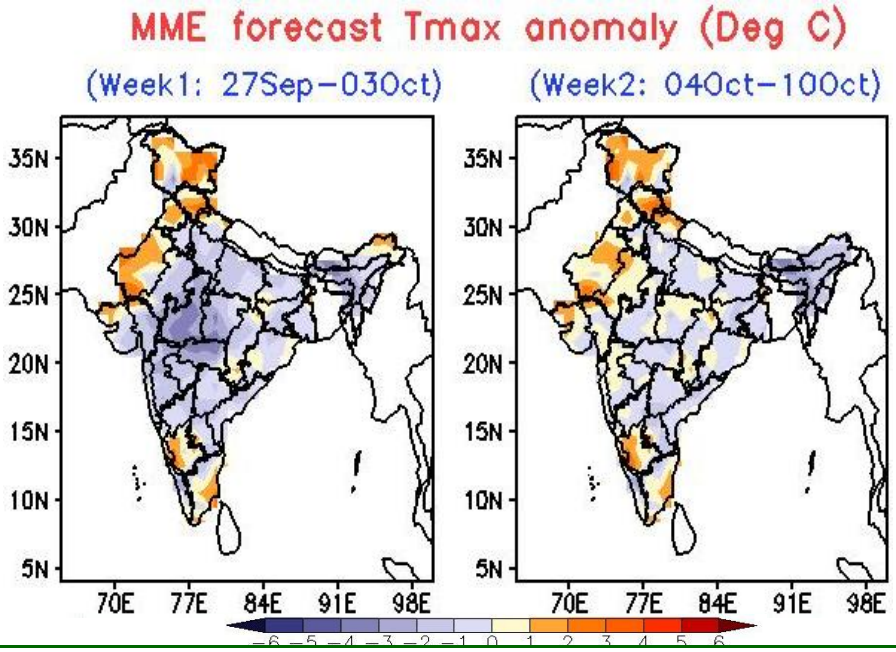
Rainfall forecast maps for the next 2 weeks (IC- 25th September, 2024)
(27th September to 10th October, 2024)





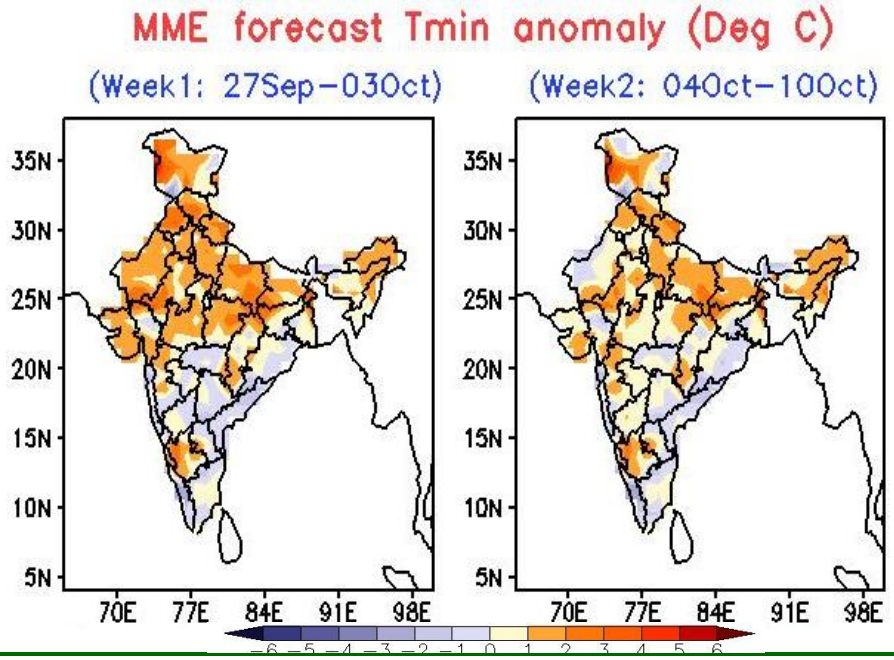
- **Week1 (27.09.2024 to 03.10.2024):**Rainfall is likely to be above normal over many parts of Northwest India, Central India, East and Northeast India.
- **Week 2 (04.10.2024 to 10.10.2024):**Rainfall is likely to be above normal over Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra and many parts of South, East & Northeast India.

Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 25th September, 2024)
(27hSeptember to 10thOctober, 2024)



Maximum Temperature (Tmax)

- **Week 1 (27.09.2024 to 03.10.2024):** Maximum temperature is likely to be above normal over Jammu & Kashmir, Himachal Pradesh, Punjab, West Rajasthan, Karnataka and Tamil Nadu.
- **Week 2 (04.10.2024 to 10.10.2024):**Maximum temperature is likely to be above normal over some parts of Northwest India, Karnataka and Tamil Nadu.



Minimum Temperature (Tmin)

- **Week 1 (27.09.2024 to 03.10.2024) andWeek 2 (04.10.2024 to 10.10.2024):** Tmin is likely to be above normal in most parts of Northwest India, Central India and Karnataka. Tmin is likely to be below normal over Eastern coastal states and Kerala.