

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



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



Date: 27-09-2024

AGRO-ADVISORY BULLETIN FOR MYSURU 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)	1.4	3.6	0	0
Max. Temp. (°C)	29.5	29.8	29.4	30.6
Min. Temp. (°C)	-	-	-	0
Sky condition (Octas)	7	7	8	5
Relative humidity (%) 0830 hours	77	79	81	81
Relative humidity (%) 1730 hours	-	75	73	75
Wind Speed (km/h)	4	8	4	4
Wind Direction	230	230	230	230

Weather forecast for the next five days (From 28-09-2024 to 02-10-2024)

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	3	10	10	9	8
Max. temp (°C)	31	33.7	32.6	36.2	31.7
Min.Temp (°C)	15.8	18	18.7	18.7	18.7
Sky condition (Octas)	7	6	4	6	7
Relative humidity (%) 0830 hours	96	92	89	88	92
Relative humidity (%) 1730 hours	53	49	56	49	54
Wind Speed (kmph)	10	6	7	7	9
Wind Direction	249	248	116	210	246

Forecast Summary

As forecast received from IMD, partially cloudy sky with **light rainfall** may be expected from 28.09.2024 to 02.10.2024 in Mysuru district. The day temperature is expected to be 31-36.2°C & night temperature is expected 15.8-18.7°C. The relative humidity in the morning hours is expected to be 88-92% & afternoon relative humidity is expected to be in the range of 49-54%. Wind speed expected to be 6-10 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:			
<ul style="list-style-type: none"> ✓ 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	- Ensure proper drainage during rainfall to avoid waterlogging.	

	Stage	- 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	<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>
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 planting. Again after 2 months resowing of Maize by the side of previous Maize crodiv. Throughout the papaya cropping period maintain border crop of Maize.

		<p>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.</p>
Paddy Leaf folder	Vegetative stage	<p>Apply any one of the following insecticides per lit. water</p> <ol style="list-style-type: none"> Quinalphos 25 EC. - 2.0 ml. Indoxacarb 14.5 SC. - 0.5ml. Flubendiamide 48 SC. - 0.08ml. Flubendiamide 20 WG. - 0.2 g. <p>Drain out the water and spray the insecticide. 250 - 300 lit. spray mixture requires per acre.</p>
Red gram wilt	Vegetative stage	<p>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).</p>
Paddy Yellow stem borer	Vegetative stage	<p>If infestation noticed, apply any one of the following insecticides per lit. water</p> <ol style="list-style-type: none"> Monocrotophos 36 SL. - 1.5 ml. Chlorpyriphos 20 EC. - 2.0 ml. Flubendiamide 48 SC. - 0.08 ml. Flubendiamide 20 WG. - 0.2 g. <p>Granular insecticide - kg./acre</p> <ol style="list-style-type: none"> Fipronil 0.3 G - 10.0 Carbofuran 3 G - 8.0 <p>N.B: Before application of granular insecticides, drain out the water and apply granules. Two days after application irrigate lightly.</p>
Coconut	Rhinoceros beetle	<p>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.</p>
Paddy leaf and neck blast	Transplanting to Vegetative	<p>> 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.</p> <ol style="list-style-type: none"> Carbendazim 50 WP. - 1.0 g. Tricyclazole 75 WP. - 0.6 g. Edifenphos 50 EC. - 1.0 ml. Kitazin 48 EC. - 1.0 ml. <p>20 - 25 days after transplanting if disease incidence above 5 per</p>

		cent sprays any one fungicide mention above. If necessary spray at flowering stage. 200 - 300 lits. spray solution/acre.
Coconut Eriophyid mites	-	Addition 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 28-09-2024 to 02-10-2024)

H.D. Kote					
Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	3.8	0.4	0.8	2	2.1
Max. temp (°C)	27.8	29.8	30.3	31	31.5
Min.Temp (°C)	18	19.8	20.2	20.2	20
Sky condition (Octas)	7	4	5	5	6
Relative humidity (%) 0830 hours	97	91	91	92	93
Relative humidity (%) 1730 hours	57	48	53	42	49
Wind Speed (kmph)	10	7	8	8	10
Wind Direction	248	270	248	225	246

Hunsuru

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	3.6	0.5	6.9	3.1	2.8
Max. temp (°C)	27.7	30.1	30.2	31.1	31.5
Min.Temp (°C)	18.2	20.7	21	21.2	20.8
Sky condition (Octas)	7	5	6	5	7
Relative humidity (%) 0830 hours	96	90	91	90	90
Relative humidity (%) 1730 hours	58	47	55	47	46
Wind Speed (kmph)	10	8	8	7	9
Wind Direction	249	315	113	105	245

K.R. Nagara

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	3.1	2.9	12.4	2.4	3.1
Max. temp (°C)	27.5	30.1	30	30.5	31.5
Min.Temp (°C)	18.2	20.9	21.5	21.6	21.2
Sky condition (Octas)	7	6	6	5	7
Relative humidity (%) 0830 hours	94	87	90	89	88
Relative humidity (%) 1730 hours	55	45	56	49	44
Wind Speed (kmph)	10	8	7	7	8
Wind Direction	270	330	124	203	248

Mysuru

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	3.1	20.8	7.8	0.7	11.1
Max. temp (°C)	26.8	28.7	29.1	29.7	30.9
Min.Temp (°C)	17.1	20	20	19.9	19.5
Sky condition (Octas)	7	6	5	6	7
Relative humidity (%) 0830 hours	96	88	90	88	90
Relative humidity (%) 1730 hours	55	47	57	48	44
Wind Speed (kmph)	11	7	8	8	9
Wind Direction	248	360	116	75	245

Nanjanagudu

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	2.1	5.9	1	0.1	5.4
Max. temp (°C)	26.2	27.3	28.2	28.9	30
Min.Temp (°C)	16.4	18.8	18.9	19.2	18.8
Sky condition (Octas)	7	5	5	5	7
Relative humidity (%) 0830 hours	95	86	87	83	87
Relative humidity (%) 1730 hours	50	46	53	44	41
Wind Speed (kmph)	12	7	9	9	10
Wind Direction	249	333	90	214	245

Piriapatna

Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	2.9	0.3	2.9	1.4	1
Max. temp (°C)	28.3	30.4	30.2	31.8	31.6
Min.Temp (°C)	18.6	20.6	21.3	21.5	21.3
Sky condition (Octas)	7	4	6	4	6
Relative humidity (%) 0830 hours	96	93	90	89	90
Relative humidity (%) 1730 hours	59	51	57	46	49
Wind Speed (kmph)	10	8	8	7	9
Wind Direction	252	315	113	288	248

T. Narasipura

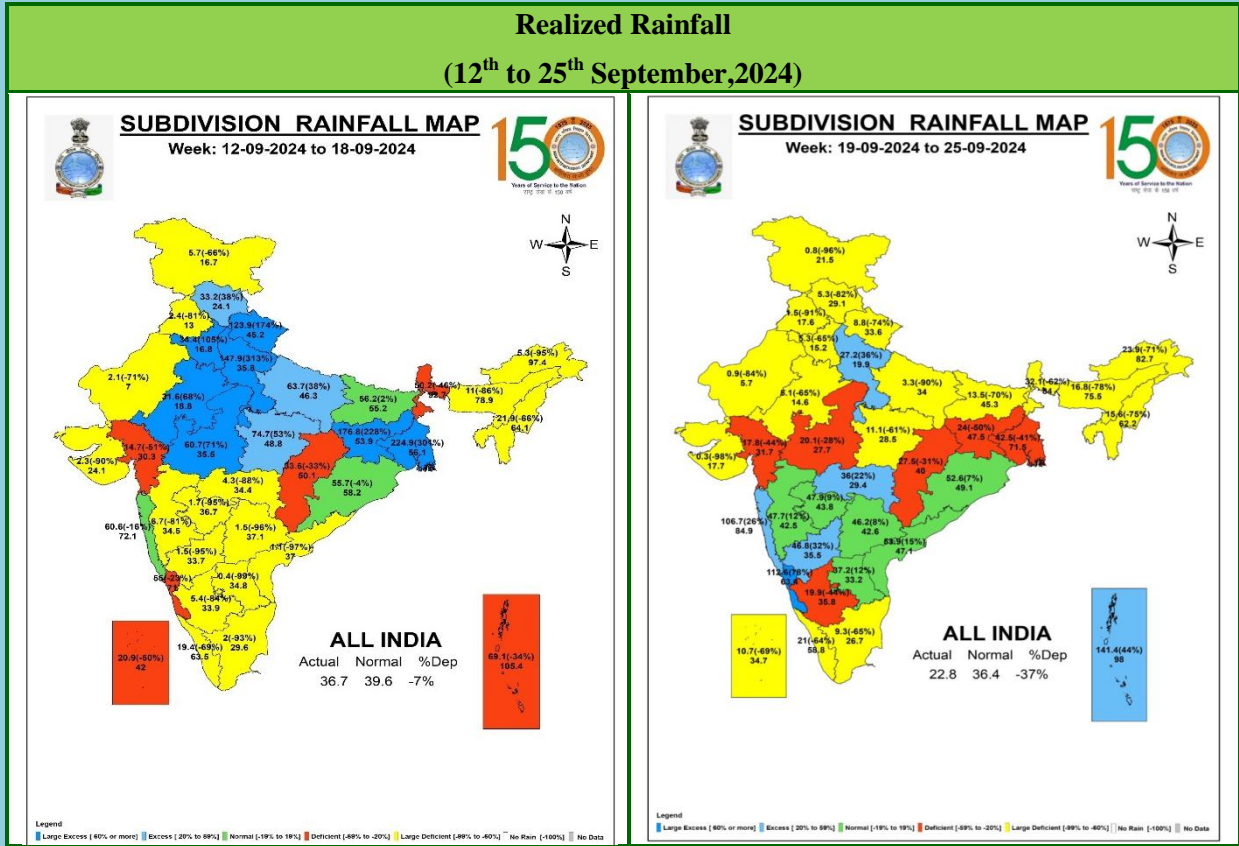
Parameter	28.09.2024	29.09.2024	30.09.2024	01.10.2024	02.10.2024
Rainfall (mm)	0	10.9	0.4	0	4
Max. temp (°C)	27.1	28.2	28.4	29.1	30.6
Min.Temp (°C)	17.4	19.9	19.9	20.2	20
Sky condition (Octas)	7	5	4	4	7
Relative humidity (%) 0830 hours	94	84	85	81	86
Relative humidity (%) 1730 hours	49	46	53	45	42
Wind Speed (kmph)	12	5	9	9	8
Wind Direction	249	113	135	199	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**

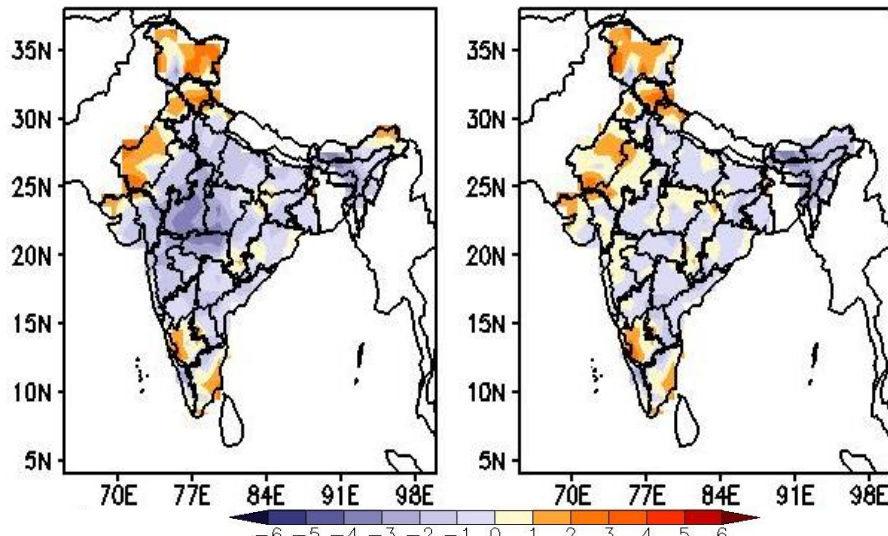
वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान
Realized Rainfall and Extended Range Forecast
 (वर्षा और तापमान)
 (Rainfall and Temperature)



MME forecast Tmax anomaly (Deg C)

(Week1: 27Sep-03Oct)

(Week2: 04Oct-10Oct)



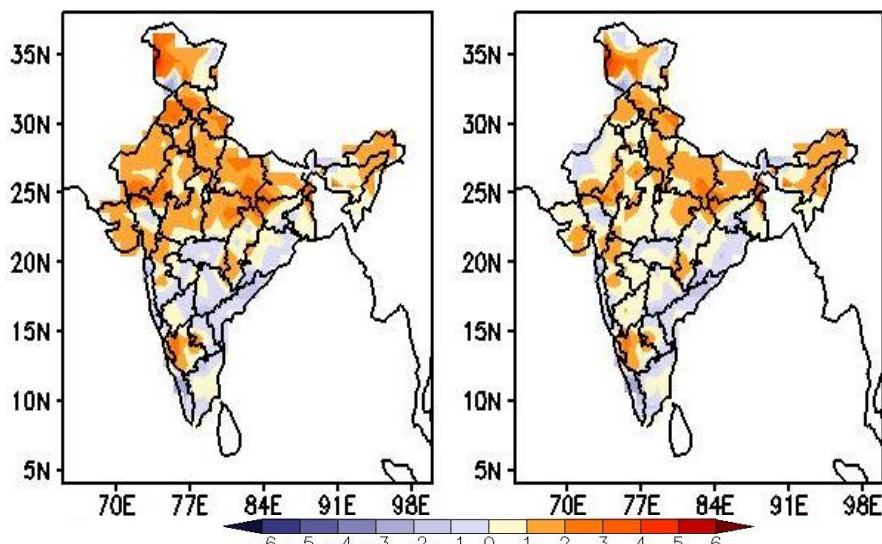
Maximum Temperature (Tmax)

- **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.

MME forecast Tmin anomaly (Deg C)

(Week1: 27Sep-03Oct)

(Week2: 04Oct-10Oct)



Minimum Temperature (Tmin)

- **Week 1 (27.09.2024 to 03.10.2024) and Week 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.

