UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

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MYSURU - 570003

Date: 27-08-2024

AGRO-ADVISORY BULLETIN FOR KODAGU DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Past Weather Data

Parameter	24.08.2024	25.08.2024	26.08.2024	27.08.2024
Rainfall (mm)	0.5	20.5	31.5	32.5
Max. Temp. (°C)	27.2	24.2	26.3	24.8
Min. Temp. (°C)	20.9	19.8	19.7	20.5
Sky condition (Octas)	-	-	-	-
Relative humidity (%) 0830 hours	97	96	100	98
Relative humidity (%) 1730 hours	94	98	96	100
Wind Speed (km/h)	-	-	-	-
Wind Direction	-	-	-	-

Weather forecast for the next five days (From 28-08-2024 to 01-09-2024)

Parameter	28.08.2024	29.08.2024	30.08.2024	31.08.2024	01.09.2024
Rainfall (mm)	22	24	75	61	19
Max. Temp. (°C)	29.2	29.4	28.2	27	27.6
Min. Temp. (°C)	18.2	18.1	19.3	19.1	19.1
Sky condition (Octas)	7	8	8	8	7
Relative humidity (%) 0830 hours	95	95	96	97	95
Relative humidity (%) 1730 hours	70	73	80	91	81
Wind Speed (kmph)	8	8	9	8	8
Wind Direction	225	212	246	212	212

Forecast Summary

As forecast received from IMD, cloudy sky with moderate rainfall may be expected from 28.08.2024 to 01.09.2024 in Kodagu district. The day temperature is expected to be 27-29.2°C & night temperature is expected 18.1-19.3°C. The relative humidity in the morning hours is expected to be 95-97% & afternoon relative humidity is expected to be in the range of 70-91%. Wind speed expected to be 8-9 km/ hr.

Recommendations to the farmers:

Crop	Pest/Disease	Damage symptoms	Control measures

General Advisory

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

- Adjust irrigation schedules considering the forecasted rainfall to avoid waterlogging, especially in crops sensitive to excess moisture like banana, tomato, and pulses.
- For crops like paddy that require standing water, ensure that the fields are adequately flooded, but with proper drainage to prevent water stagnation.
- Ensure that all fields have proper drainage systems to avoid waterlogging, especially with the expected rainfall. This is crucial for crops like turmeric, ginger, and pulses in the pod initiation stage.
- Check and clear any drainage channels or outlets that may be blocked.
- Consider applying potassium-rich fertilizers to banana and tomato crops to improve fruit quality.
- For vegetative crops like paddy, cotton, and chilli, a balanced application of nitrogen fertilizer may be needed to support growth.
- Monitor crops for pest and disease outbreaks, especially with the high humidity and moderate rainfall expected. Pay special attention to fungal diseases in tomato and chilli, and pod borers in pulses.
- Take preventive measures, such as spraying appropriate fungicides or insecticides if necessary.
- Plan to harvest mature crops like tobacco and sunflower during dry periods to avoid post-harvest losses due to moisture. Ensure proper curing and drying of harvested produce to prevent mold growth.
- For crops like banana that are in the fruit development stage, consider propping to support the plants against strong winds.
- Stake tomato plants to prevent them from collapsing under the weight of the developing fruits.
- Apply organic mulch around crops like turmeric, ginger, and perennial plants (coconut, arecanut, cocoa, pepper) to retain soil moisture, suppress weeds, and improve soil health.
- Perform timely weeding, especially in crops like sorghum, chilli, and pulses, to reduce competition for nutrients and water, ensuring better crop growth. Store harvested produce in cool, dry conditions to maintain quality and prevent spoilage.

Crop	Stage	Weather-Based Advisory
Banana	Fruit development	✓ Ensure proper drainage to avoid waterlogging due to the expected rainfall. ✓ Apply potassium-rich fertilizers to improve fruit quality. Propping may be necessary to support the plants against strong winds.
Tomato	Fruit development	✓ Avoid overhead irrigation to prevent fungal diseases, especially with high humidity. ✓ Monitor for pests and diseases like blight. ✓ Stake the plants to support the weight of the developing fruits.
Paddy	Vegetative	✓ Ensure fields have adequate water levels, but avoid waterlogging. ✓ With moderate rain, adjust irrigation schedules. ✓ Consider applying top dressing of nitrogen to support vegetative growth if necessary.
Tobacco	Harvesting	✓ Harvest leaves during dry periods to avoid moisture-related issues. ✓ Cure harvested leaves in a well-ventilated space to ensure proper drying and avoid mold growth.
Pulses (Black gram, Green gram, Cowpea)	Pod initiation	✓ Provide light irrigation if rainfall is insufficient. ✓ Monitor for pod borers and take necessary control measures. ✓ Ensure proper drainage to prevent waterlogging which could affect pod development.
Chilli	Vegetative	✓ Ensure proper irrigation to avoid drought stress, but avoid waterlogging.

		✓ Monitor for pest and disease outbreaks, particularly in high humidity. ✓ Fertilize with a balanced nutrient mix to support healthy vegetative growth.
Sunflower	Harvesting	✓ Harvest mature heads before the rains to prevent moisture damage. ✓ Dry harvested heads in a well-ventilated area to reduce moisture content and avoid mold growth.
Turmeric and Ginger	Rhizome development	✓ Maintain adequate soil moisture through light irrigation, but ensure good drainage. ✓ Mulch the soil to retain moisture and suppress weeds. ✓ Monitor for rhizome rot and take preventive measures in high humidity conditions.
Cotton	Vegetative stage	✓ Ensure the soil is moist but not waterlogged, adjusting irrigation accordingly. ✓ Monitor for pest infestations like bollworms, especially during high humidity. ✓ Fertilize with nitrogen to support vigorous vegetative growth.
Sorghum	Vegetative stage	✓ Provide irrigation if required, but ensure good drainage to avoid waterlogging. ✓ Conduct timely weeding to reduce competition for nutrients.
Coconut, Arecanut, Cocoa, Pepper	Various stages	✓ Ensure regular irrigation, particularly for younger plants. ✓ Mulch around the base to conserve soil moisture and control weeds. ✓ Regularly check for pest and disease signs, especially in high humidity, and take preventive measures.
Coffee	Berry development	Provide shade to protect berries from heat stress. Maintain soil moisture through irrigation if necessary. Monitor for pests like berry borer.
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 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.
Maize Fall army worm	Vegetative stage	Use chlorantraniliprole or Emamectin benzoate for fall armyworm. Regular monitoring.
Avare pod borer	Pod development	Dust 10 kg. Fenvalrate 0.4 D. OR Malathion 5 D. per acre during morning hours.
Ginger rhizome rot	Rhizome development	Plant disease free seed material Treat the planting materials in 4.0 g.Mancozeb 75 Wdiv. in a lit. water. On notice of the disease spray 2.0 g. Captan 50 Wdiv. OR 2.0 g. Metalaxyl - MZ 72Wdiv. in a lit. water. Before store of seed material soak them in 3.0 g. Mancozeb 75 Wdiv. in a lit. water for 30 min then dry in shade and store.
Bean pod borer	Pod development	Spray 2.0 ml. Malathion 50 EC./ lit. water
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.

Block level weather forecast (From 28-08-2024 to 01-09-2024)					
Madikeri					
Parameter	**28.08.2024**	**29.08.2024**	**30.08.2024**	**31.08.2024**	**01.09.2024**
Rainfall (mm)	6.3	6.9	19.5	23.3	9.2
Max. temp (°C)	27.1	27.2	26.1	24.6	24.3
Min.Temp (°C)	21.2	21.1	21.8	21.6	21.8
Sky condition (Octas)	7	8	8	8	8
Relative humidity (%) 0830 hours	98	98	98	98	99
Relative humidity (%) 1730 hours	81	81	85	95	94
Wind Speed (kmph)	8	7	8	8	7
Wind Direction	248	248	248	291	293

Somvarpet					
Parameter	**28.08.2024**	**29.08.2024**	**30.08.2024**	**31.08.2024**	**01.09.2024**
Rainfall (mm)	1.7	1.9	4.3	5.3	1.5
Max. temp (°C)	26	26.8	25.4	24	23.2
Min.Temp (°C)	19.4	19.5	20.5	20.1	20.3
Sky condition (Octas)	7	8	8	8	8
Relative humidity (%) 0830 hours	96	96	95	95	95
Relative humidity (%) 1730 hours	71	69	75	85	90
Wind Speed (kmph)	13	13	15	15	12
Wind Direction	248	257	248	291	293

Virajpet					
Parameter	**28.08.2024**	**29.08.2024**	**30.08.2024**	**31.08.2024**	**01.09.2024**
Rainfall (mm)	3.2	4.3	11.4	20.1	8.1
Max. temp (°C)	28	28.1	27.1	25.3	24.8
Min.Temp (°C)	21.9	21.8	22.4	22.3	22.6
Sky condition (Octas)	7	7	8	8	8
Relative humidity (%) 0830 hours	98	96	98	98	98
Relative humidity (%) 1730 hours	70	72	78	92	89
Wind Speed (kmph)	8	7	8	7	6
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