



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU



AGROMET-ADVISORY BULLETIN

Date: **21.04.2023**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

The forecast is valid for Bengaluru urban district.

Significant past weather for the preceding week

Parameter	17.04.2023	18.04.2023	19.04.2023	20.04.2023	21.04.2023
Rainfall (mm)	0	0	0	0	0
Max. temp(°C)	34.8	34.2	35.0	35.0	34.8
Min.Temp(°C)	19.8	18.8	20.6	21.4	21.6
Sky condition(Octas)	0	0	0	0	0
Relative humidity(%) 0830 hours	79	80	79	80	81
Relative humidity(%) 1730 hours	34	35	35	35	--
Wind Speed (kmph)	3.9	2.8	1.7	2.0	2.0
Wind Direction	140	230	230	270	270

Weather forecast (Valid from 22-04-2023 to 26-04-2023)

Forecast summary:

Parameters	22.04.2023	23.04.2023	24.04.2023	25.04.2023	26.04.2023
Rainfall (mm)	1	1	0	5	4
Max Temp Trend (°C)	34	34	34	34	34
Min Temp Trend (°C)	22	22	22	22	22
Total cloud cover (octa)	3	3	3	3	3
Relative humidity (%)Max	74	74	74	77	77
Relative humidity (%)Min	31	31	31	33	33
Wind speed(Km/hr)	6	6	6	5	5
Wind Direction (Degrees)	253	243	135	135	146

Light rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 34.0°C and Minimum of 22.0°C. Relative humidity 74-77 % during morning hrs and 31-33 % during noon is expected. Wind speed is 5-6 km/hr.

Weather Based Agro Advisories

Crop information and Crop Stages of the major Kharif/Rabi crops

District	Kharif crops				Horticulture crops	
	Groundnut	Redgram	Finger millet	Maize	Grape	Mango
Bangalore Urban (BU)	--	--	-	-	-	FD

G: Germination, S: Sowing, EV: Early vegetative, VG: Vegetative growth, TR: Tranplanting, PI: Peg initiation, FLI: Flag leaf initiation, F: Flowering, PF: Pod formation, PM: Pod Maturity, T: Tillering,, Ts: Taselling, E: Ear head emergence, GF: Grain filling, H: Harvesting
IBI: Inflorescence Bud initiation , PP(V): Pod Picking Vegetable , F& FS: Flowering to fruit setting, FD: Fruit Development, H: Harvesting, M: Maturation, B: Branching

Agromet Advisory:

Crop/ Component	Stage/ Condition	Pest and Disease	Agro advisories
General			<ul style="list-style-type: none"> Thunderstorm with lightning occurs at isolated places of district Time for application tank silt to increase soil fertility. Seeds may be procured in advance and store for pre monsoon season sowing of Cowpea, Sesamum, Fieldbean etc Crop residues other than cattle feed may be used for compost

		<p>making instead of burning.</p> <ul style="list-style-type: none"> • The grains of the harvested crops should be properly dried by retaining moisture percentage of Cereals 11-12 %, Pulses-9%, Oilseeds-8% and Vegetable seeds 5-6% for long storage & also minimize the store pest damage. • To protect the pulse grains from storage pests apply oils of Castor/ linseed/honge/ neem oil @ 3-5 ml per kg of grains.
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Horticulture crop

Mango	Fruit development stage	<ol style="list-style-type: none"> 1. Provide irrigation, as the fruits are in marble stage, this will help for the better development of fruits. 2. If sufficient water is available, irrigation can be given at 15-20 days interval starting from fruit setting till maturity. 3. Fruit drop can be controlled by spraying Naphthalene acetic acid (NAA) @ 20 ppm twice at an interval of 15 days during the early stage (peanut stage/marble stage) of fruit development stage. 4. Leaf hopper and Powdery mildew disease incidence is more before flowering and immediately after fruit formation to manage spraying of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water for management of leaf hopper. 5. Spray Lambda Cyhalothrin 5EC @ 0.5 ml/ litre of water or sulphur dust (SULTAF) 80 W @3g/litre of water against the Powdery mildew diseases. <ol style="list-style-type: none"> 1. If the incidence of Leaf hopper is severe spray Azadirachtin (10,000 ppm) @ 7.0 ml/ litre of water.
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Dairy		<ol style="list-style-type: none"> 1. Preparation of silage from the harvested maize and other available pulse crops to overcome shortage of green fodder. 2. An animal's nutrient requirements also go up as the temperature drops, especially in wet conditions followed by cold/winter season. Feed more roughages (like hay, straws, etc.) or forages (berseem) to maintain the milk production and body heat of the dairy animals. Roughages are generally preferable over concentrates due to their lower cost 3. Feeding cow containing about 17 per cent dietary fiber in the animal feed are also helpful to increase fat percentage in milk. Concentrate mixture should comprise grains (40 per cent), oil cakes (32 per cent), brans (25per cent), mineral mixture (2 per cent) and common salt (1 per cent).
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Animal Husbandry

Livestock management during summer:

- ❖ Apply 4-6 inch thick thatch as a roofing material. Water can be used for spraying the floor and roof of shelter
- ❖ Periodically water spray during peak hot hours lowers the temperature and consequently reduces the heat load on animals
 - ❖ Proper ventilation should be maintained for free circulation of air in the sheds
 - ❖ Clean drinking water be provided to animals and water troughs should be regularly cleaned
 - ❖ Drinking water of 60 lts. of water/day/animal is required.
 - ❖ Animals may be allow for grazing early in morning or later in evening.

Poultry

Poultry management during summer:

Average maximum temperature 33-36 °C and Average Relative Humidity < 50 % , Average Wind speed < 5 km/hr

- Water tank and lines may be covered with gunny bags to provide cool water
- Distribute feed in cooler parts of the day (early morning and in the evening hours).
- Ensure proper cross ventilation to avoid ammonia accumulation
- Pedestrian fans may be used to increase air flow during low wind sunny days.

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Bengaluru

Important Note: Farmers are informed to use the APPs & Videos related to Weather information: MEGHDOOT, MAUSAM AND DAMINI APPS. This information is available in the website:
mausam.imd.gov.in