



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU



AGROMET-ADVISORY BULLETIN

Date: 19.12.2023

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

The forecast is valid for Bengaluru urban district.

Significant past weather for the preceding week

Parameter	15.12.2023	16.12.2023	17.12.2023	18.12.2023	19.12.2023
Rainfall (mm)	0	0	0	0	0
Max. temp(°C)	27.8	27.0	26.8	26.0	25.2
Min.Temp(°C)	18.0	18.0	18.0	18.2	17.0
Sky condition(Octas)	0	2	2	2	4
Relative humidity(%) 0830 hours	93	84	82	80	85
Relative humidity(%) 1730 hours	64	65	45	63	--
Wind Speed (kmph)	5.4	6.7	1.8	0.7	1.0
Wind Direction	90	90	90	90	90

Weather forecast (Valid from 20-12-2023 to 24-12-2023)

Forecast summary:

Parameters	20.12.2023	21.12.2023	22.12.2023	23.12.2023	24.12.2023
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	28	29	29	29	29
Min Temp Trend (°C)	16	16	17	18	15
Total cloud cover (octa)	5	1	4	8	6
Relative humidity (%)Max	94	94	94	94	93
Relative humidity (%)Min	50	46	47	50	37
Wind (Km/hr)	15	15	12	12	13
Wind Direction (Degrees)	69	72	112	112	90

Light rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 28.0-29.0°C and Minimum of 15.0-18.0°C. Relative humidity 93-94 % during morning hrs and 37-50 % during noon is expected. Wind speed is 12-15 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)	-	H	M,H	-	-	-

G: Germination, S: Sowing, EV: Early vegetative, VG: Vegetative growth, TR: Transplanting, 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"> Right time for harvesting of matured pigeon pea pod or whole plants & Finger millet crop and kept for dry place. 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 minimizes the store pest

Kharif crops	Harvesting stage	<p>damage.</p> <ul style="list-style-type: none"> • To protect the pulse grains from storage pests apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.
Rabi crops	Early vegetative and vegetative stage	<p>The following Rabi crops are suggested for sowing.</p> <p>Horse gram-PHG-9, KBH-1, Niger, Field bean-HA-3 and 4 and sunflower-KBSH-1, 41, 42, 44 & 53, cowpea (KBC-1, TVX-944 and PKB-4 for vegetable purpose).</p> <ul style="list-style-type: none"> • Intercultural operation recommended for conserving soil moisture and removal of weeds in standing rabi crops. • Mulching is recommended to conserve the soil moisture in standing rabi crops.
Mango	Flower bud initiation and Flowering	<ol style="list-style-type: none"> 1. Clear the weeds in Mango orchard/Guava/Sapota put it under the basin as mulch. 2. If Phanerogamic plants are growing on the mango tree to cut/prune out completely and apply Bordeaux paste or Copper oxy chloride that portion. 3. Remove the weeds such as lantana which are growing under the mango tree. 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 Lamda Cyhalothrin 5EC @ 0.5 ml/ litre of water or sulphur dust (SULTAF) 80 W @3g/litre of water against the Powdery mildew diseases. 6. If the incidence of Leaf hopper is severe spray Azadirachtin (10,000 ppm) @ 7.0 ml/ litre of water.
Animal Husbandry		
Dairy		<ol style="list-style-type: none"> 1. To protect animals from a sudden drop in temperature, keep the animals in a covered shed/area during the night. The bedding/hay in the animal sheds must be kept dry and changed/aired every day. 2. Due care should be taken to store/procure fodder for periods of shortage that may occur during the winter months in certain areas. Perennial grasses must be cut at this time.
Poultry		<ol style="list-style-type: none"> 1. The poultry house should be located in such a way that long axis is in east-west direction. This will prevent the direct sunshine over the birds. 2. Beginning at one day of age, the chick should be housed at a temperature 35° C will maintain one week, at a relative humidity between 40 – 60% after wards 2 to 4 weeks temperature decreases every week by 2° C. 3. Provide artificial brooding to chicks to maintain adequate temperature. 4. Care should be taken to prevent the chicks from being exposed to wind chill. 5. Sides should be covered with curtains during cool hours of the day. 6. Wet litter material should be removed regularly 7. Ensure proper cross ventilation to avoid ammonia accumulation

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*