UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU

AGROMET-ADVISORY BULLETIN

Date: **19.01.2024**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

The forecast is valid for Bengaluru urban district.

Significant past weather for the preceding week

Parameter	12.01.2024	13.01.2024	14.01.2024	15.01.2024	16.01.2024
Rainfall (mm)	0	0	0	0	0
Max. temp(°C)	29.0	29.2	29.0	30.0	29.8
Min.Temp(°C)	18.4	18.0	19.2	18.2	18.0
Sky condition(Octas)	2	2	2	2	0
Relative humidity(%) 0830 hours	85	89	82	86	85
Relative humidity(%) 1730 hours	48	44	42	44	--
Wind Speed (kmph)	7.9	8.1	7.8	7.0	7.8
Wind Direction	140	140	90	90	90

Weather forecast (Valid from 20-01-2024 to 24-01-2024)

Forecast summary:

Parameters	20.01.2024	21.01.2024	22.01.2024	23.01.2024	24.01.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (^{o}C)	30	30	30	31	30
Min Temp Trend (^{o}C)	18	17	16	16	16
Total cloud cover (octa)	2	1	2	2	2
Relative humidity (%)Max	93	80	80	88	88
Relative humidity (%)Min	36	35	34	30	30
Wind speed(Km/hr)	14	14	15	16	14
Wind Direction (Degrees)	110	110	110	110	110

No rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 30.0-31.0^{o}C and Minimum of 16.0-18.0^{o}C. Relative humidity 80-93 % during morning hrs and 30-36 % during noon is expected. Wind speed is 14-16 km/hr.

Weather Based Agro Advisories

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

District	*Kharif crops*				*Horticulture crops*	
Bangalore Urban (BU)	**Groundnut**	**Redgram**	**Finger millet**	**Maize**	**Grape**	**Mango**
	--	**-**	**-**	**--**	**-**	**F& FS**

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		1. Right time for harvesting Rabi crops. 2. 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. 3. To protect the pulse grains from storage pests apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains. 4. Advised for harvested crops cleaning, drying and storage in dry gunny bag.	
Horticulture crop			
Mango	Flowering and Fruit setting	1. Dry spell situation exists since two months, it is favorable for Powdery mildew diseases. 2. Sudden drop in minimum temperature is observed in Mango it will be affects the floral induction and spray pacloburtrazol as plant growth retardant which restrict the vegetative growth. 3. 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. 4. 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. 5. If the incidence of Leaf hopper is severe spray Azadirachtin (10,000 ppm) @ 7.0 ml/ litre of water.	
Animal Husbandry			
		Foot and mouth diseases: This is a highly infectious viral disease of farm animals. 1. Regular vaccination of farm animals for control of FMD in the month of January. 2. Separation of affected animals from other animals. 3. Mouth and feet of the affected animals should be washed with 1% potassium permanganate (KMnO4) antiseptic mouth wash3-4 times a day. 4. Disinfection of floors, premises and all infected materials by using Sodium hydroxide (2%), sodium carbonate (4%) and citric acid (0.2%) is advisable. 5. 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. 6. 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.	
Sericulture			
		1. White muscardine: caused by *Beauveria bassiana* , 2. Manage the humidity in the rearing house by providing good cross-ventilation. Dust dry slaked lime powder when silkworms settle for moult. 3. If the silkworm rearing house temperature falls below 22ºC, raise it using room heater / charcoal stove. 4. Collect muscardine affected larvae from the rearing bed before mummification, dust	

	antimuscardine bed disinfectant and finally burn them. Do not throw them on the street or feed to animals / birds. 5. Dust Vijetha and Vijetha Supplement or Ankush bed disinfectant as per recommended schedule or dust any recommended anti-muscardine bed disinfectant as per the schedule.
Poultry	
	1. Provide artificial brooding to chicks to maintain adequate temperature. 2. Care should be taken to prevent the chicks from being exposed to wind chill. 3. Sides should be covered with curtains during cool hours of the day. 4. Wet litter material should be removed regularly **5.** Ensure proper cross ventilation to avoid ammonia accumulation

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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*