UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU

AGROMET-ADVISORY BULLETIN

Date: **28.04.2023**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

The forecast is valid for Chikkaballapur district

Weather forecast (Valid from 29-04-2023 to 03-05-2023)

Forecast summary:

Parameters	29.04.2023	30.04.2023	01.05.2023	02.05.2023	03.05.2023
Rainfall (mm)	2	8	7	6	4
Max Temp Trend (^{o}C)	33	33	33	33	33
Min Temp Trend (^{o}C)	21	21	21	21	21
Total cloud cover (octa)	3	3	5	5	5
Relative humidity (%) Max	65	65	69	69	69
Relative humidity (%) Min	37	37	40	40	40
Wind speed (Km/hr)	3	2	2	3	2
Wind Direction (Degrees)	158	248	117	150	126

Light rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 33.0^{o}C and Minimum of 21.0^{o}C. Relative humidity 65-69 % during morning hrs and 37-40 % during noon is expected. Wind speed 2-3 km/hr.

Weather Based Agro Advisories

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

District	*Kharif crops*				*Horticulture crops*	
Chikkaballapura	Groundnut	Redgram	Finger millet	Maize	Grape	Mango
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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		• Taken up summer plough to expose the soil to kill the different stages of insect and weeds. • 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	
Horticulture crop			
Mango	Fruit development stage	1. Provide irrigation, as the fruits are in marble stage, this will helps 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 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.
Dairy		1. 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 2. 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).

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 ^{o}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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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*