



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU



AGROMET-ADVISORY BULLETIN

Date: **18.07.2023**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

The forecast is valid for Chikkaballapur district

Weather forecast (Valid from 19-07-2023 to 23-07-2023)

Forecast summary:

Parameters	19.07.2023	20.07.2023	21.07.2023	22.07.2023	23.07.2023
Rainfall (mm)	2	1	2	6	8
Max Temp Trend (°C)	30	31	31	31	31
Min Temp Trend (°C)	21	20	20	20	20
Total cloud cover (octa)	8	7	7	7	8
Relative humidity (%) Max	83	83	83	85	85
Relative humidity (%) Min	62	62	62	64	64
Wind speed (Km/hr)	4	5	4	4	4
Wind Direction (Degrees)	249	248	248	252	283

Light rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 30.0-31.0°C and Minimum of 20.0-21.0°C. Relative humidity 83-85 % during morning hrs and 62-64 % during noon is expected. Wind speed 4-5 km/hr.

Weather Based Agro Advisories

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

District	Kharif crops				Horticulture crops	
Chikkaballapur	Groundnut	Redgram	Finger millet	Maize	Grape	Mango
a	S,G,EV	S,G,EV	-	S,G,EV	-	-

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"> Pushya rainstar starts from July 20th and remains up to August 02nd. The normal rainfall of Pushya rainstar is 56.4 mm. Continue sowing operation due to sufficient soil moisture available in crop fields. Due to high humidity (warm and humid weather) possibility of pest and disease build up is more in already sown crop. Take prophylactic measures depending on the crop. Wind speed is high; postpone the spraying operation in Agriculture and Horticultural crops. Wind speed is high, provide staking support to Banana and vegetable crop to protect from uprooting of crops. Agro forestry on the bund involving <i>Melia dubia</i> (Hebbevu), Silver oak and Causurina is recommended for sustainable income under abnormal extreme rainfall events . Take up land preparation and strengthen the bund with fodder grass which will facilitate conservation of rainwater due to pre-monsoon showers. Ploughing across the slope will make insitu soil moisture conservation

Kharif crops	Sowing, Germination and Early vegetative stage	<p>The following crops are suggested for sowing.</p> <p>Redgram : TTB-7, BRG-1,2,4&5</p> <p>Maize: Ganga-11, Deccan -103, Vijaya composite, Composite NAC-6004,6002, Hybrid-Nityashree (NAH-2049)</p> <p>Groundnut : TMV-2, JL-24, KCG-6</p> <p>Cowpea: TVX-944, KBC-1, Green gram: PS-16, PDM-84,178</p> <p>Black gram: Karagao-3, T-9, Rashmi(LBG-625).</p> <ul style="list-style-type: none"> • Redgram seeds treat with Carbendazim or Thiram @ 2 g/kg of seed 24 hours before sowing (or) with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed (or) <i>Pseudomonas fluorescens</i> @ 10 g/kg seed and <i>Rhizobium</i> @ 10 g/kg of seed . • Wherever, the long duration crops like Redgram, and Castor has been sown, undertake earthing up operation in addition to the above agronomic measures. Earthing up makes a better availability of soil moisture to the crop rows through conversion of the land into ridges and furrow system. • Wherever over population of crop plants is existing, undertake thinning operation for better availability of scarce soil moisture to the reduced population of crop plants. • Apply the recommended top dress fertilizer to Redgram and Maize crops.
Horticulture crop		
Mango		<ul style="list-style-type: none"> ➤ Deep ploughing is recommended in mango orchard. Rainwater harvesting through opening circular trenches around the tree at a distance of 6 feet and width at 9 inches, as well as depth and mulching the trenches with dry mango and green leaf manuring helps in retaining sufficient soil moisture in soil. ➤ Apply recommended dose of fertilizer in June-July month. ➤ Recommended for pruning of dried twigs and branches done in June-July month to facilitate the sunlight to bear the more fruits in next seasons.
Animal Husbandry		
Dairy		<ol style="list-style-type: none"> 1. Vaccinate the cow against the Black quarter disease. It is a bacterial disease caused by <i>Clostridium chauvoei</i> 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).
Sericulture		
1. Maintain the optimum room temperature in Sericulture unit.		

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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