



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU  
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AMFU OF IMD, BENGALURU



**AGROMET-ADVISORY BULLETIN**

Date: **13.12.2022**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

**Significant past weather for the preceding week**

Parameter	09.12.2022	10.12.2022	11.12.2022	12.12.2022	13.12.2022
Rainfall (mm)	0	5.4	59.4	8.4	7.0
Max. temp (°C)	25.4	21.8	18.9	24.6	24.6
Min.Temp (°C)	17.0	16.2	17.6	17.6	19.0
Sky condition (Octas)	8	8	8	8	8
Relative humidity (%) 0830 hours	87	94	98	98	98
Relative humidity (%) 1730 hours	72	96	70	68	--
Wind Speed (Kmph)	7.1	8.1	7.0	4.4	4.6
Wind Direction	45	45	45	45	140

**Weather forecast (Valid from 14-12-2022 to 18-12-2022)**

**Forecast summary:**

Parameters	14.12.2022	15.12.2022	16.12.2022	17.12.2022	18.12.2022
Rainfall (mm)	1	0	0	0	0
Max Temp Trend (°C)	27	26	29	28	27
Min Temp Trend (°C)	17	17	17	17	16
Total cloud cover (octa)	3	7	7	5	6
Relative humidity (%)Max	95	97	78	77	88
Relative humidity (%)Min	69	68	43	42	48
Wind speed(Km/hr)	19	13	11	12	16
Wind Direction (Degrees)	112	108	77	68	68

**Light rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 26.0-29.0°C and Minimum of 16.0-17.0°C. Relative humidity 77-97 % during morning hrs and 42-69 % during noon is expected. Wind speed is 11-19 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)	--	GF,M,H	H	--	-	--

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: Tilling, 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"> <li>Cyclonic Storm “Mandous” pronounced as “Man-Dous” formation over Southwest Bay of Bengal resulted in cloudy weather and light</li> </ul>

		<p>to moderate rainfall forecasted from IMD.</p> <ul style="list-style-type: none"> <li>Jyestha rainstar starts from December 3<sup>rd</sup> to December 15<sup>th</sup>. The normal rainfall of Jyestha rainstar is 7.7 mm.</li> </ul> <p><b>The following crops are suggested for sowing.</b></p> <ul style="list-style-type: none"> <li>Field bean-HA-3 and 4 and sunflower-KBSH-1,41,42, 44 &amp; 53, cowpea (KBC-1, TVX-944 and PKB-4 for vegetable purpose). Horse gram- PHG-9, KBH-1</li> <li>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 &amp; also minimize the store pest damage.</li> <li>To protect the pulse grains from storage pests apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.</li> </ul>
<b>Finger millet</b>	Harvesting	1. Advised for postpone harvesting next couple of days due to cloudy and light rainfall forecasted from IMD
<b>Maize</b>	Harvesting	1. Advised for postpone harvesting next couple of days due to cloudy and light rainfall forecasted from IMD
<b>Horticulture crop</b>		
<b>Mango</b>	Flower bud initiation and Flowering	<ol style="list-style-type: none"> <li>1. Clear the weeds in Mango orchard/Guava/Sapota put it under the basin as mulch.</li> <li>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.</li> <li>3. Remove the weeds such as lantana which are growing under the mango tree.</li> <li>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 Imidachlorpid @ 0.3ml/ litre of water for management of leaf hopper.</li> <li>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.</li> <li>6. If the incidence of Leaf hopper is severe spray Azadirachtin (10,000 ppm) @ 7.0 ml/ litre of water.</li> </ol>
<b>Animal Husbandry</b>		
		<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>
<b>Sericulture</b>		
		<ol style="list-style-type: none"> <li>1. White muscardine: caused by <i>Beauveria bassiana</i> ,</li> <li>2. Manage the humidity in the rearing house by providing good cross-ventilation. Dust dry slaked lime powder when silkworms settle for moult.</li> <li>3. Feed silkworms with adequate quantity of mulberry leaves to avoid the accumulation of left over leaves in the rearing bed. Make sure that the silkworm bed is dry and thin.</li> <li>4. If the silkworm rearing house temperature falls below 22°C, raise it using room heater / charcoal stove.</li> </ol>

	<ol style="list-style-type: none"> <li>5. 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.</li> <li>6. 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.</li> </ol>
<b>Poultry</b>	
	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. Provide artificial brooding to chicks to maintain adequate temperature.</li> <li>4. Care should be taken to prevent the chicks from being exposed to wind chill.</li> <li>5. Sides should be covered with curtains during cool hours of the day.</li> <li>6. Wet litter material should be removed regularly</li> <li>7. Ensure proper cross ventilation to avoid ammonia accumulation</li> </ol>

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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](http://mausam.imd.gov.in)