



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU



AGROMET-ADVISORY BULLETIN

Date: **02.09.2022**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

Significant past weather for the preceding week

| Parameter | 29.8.2022 | 30.8.2022 | 31.8.2022 | 01.9.2022 | 02.9.2022 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|
| Rainfall (mm) | 0 | 56.4 | 5.0 | 8.2 | 16.0 |
| Max. temp(°C) | 27.0 | 27.6 | 20.2 | 27.8 | 27.2 |
| Min.Temp(°C) | 17.2 | 18.0 | 18.2 | 19.8 | 18.0 |
| Sky condition(Octas) | 8 | 6 | 6 | 3 | 6 |
| Relative humidity(%) 0830 hours | 91 | 89 | 95 | 93 | 93 |
| Relative humidity(%) 1730 hours | 56 | 63 | 60 | 63 | ... |
| Wind Speed (kmph) | 3.7 | 2.2 | 3.5 | 2.5 | 2.4 |
| Wind Direction | 320 | 45 | 45 | 320 | 90 |

Weather forecast (Valid from 03-09-2022 to 07-09-2022)

Forecast summary:

| Parameters | 03.9.2022 | 04.9.2022 | 05.9.2022 | 06.9.2022 | 07.9.2022 |
|--------------------------|-----------|-----------|-----------|-----------|-----------|
| Rainfall (mm) | 16 | 11 | 12 | 17 | 18 |
| Max Temp Trend (°C) | 28 | 29 | 29 | 28 | 28 |
| Min Temp Trend (°C) | 20 | 20 | 20 | 20 | 20 |
| Total cloud cover (octa) | 8 | 8 | 8 | 8 | 8 |
| Relative humidity (%)Max | 93 | 93 | 95 | 95 | 95 |
| Relative humidity (%)Min | 91 | 91 | 93 | 93 | 93 |
| Wind speed(Km/hr) | 3 | 4 | 5 | 4 | 4 |
| Wind Direction (Degrees) | 243 | 238 | 248 | 248 | 248 |

Light to moderate rain is forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 28.0-29.0°C and Minimum of 20.0°C. Relative humidity 93-95 % during morning hrs and 91-93 % during noon is expected. Wind speed is 3-5 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) | V,F | V | S,G,EV,V | EV,V,Ts | - | -- |

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. Hubba rainstar starts from August 31 st and remains up to |

| | | |
|--------------------------|--|--|
| | | <p>September 12th. The normal rainfall of Hubba rainstar is 80.4 mm.</p> <ol style="list-style-type: none"> 2. Drainout the excess rainfall in crop field. 3. Due to continuous rainfall, chances of weeds problem will be more. Advised to take care of mechanical or chemical weed control measures 4. Since there is continuous rainfall for next 5 days, advised to undertake transplanting ragi seedlings wherever there is patchy stand to maintain the uniform plant populations to get higher yield. 5. 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>Under double cropping the medium to short duration crops:</p> <ul style="list-style-type: none"> ➤ Wherever pre-monsoon short duration crops are sown in the month of May. They have to be harvested in August, Immediately the late Kharif crops like Finger millet Ragi (Indaf-5, 7,9, ML-365, KMR-301), 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>Maize: Ganga-11, Deccan -103, Vijaya composite, Composite NAC- 6004,6002, Hybrid-Nityashree (NAH-2049), Hybrid Hema (NAH-1137)</p> <ol style="list-style-type: none"> 1. These maize varieties resistance to Stem borer, Leaf blight and Downey mildew disease 2. 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. 3. 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. 4. Postpone the application of top dress fertilizer to Redgram crop due to moderate rainfall. |
| Horticulture crop | | |
| Mango | | <ol style="list-style-type: none"> 1. 1-2 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. |
| Sericulture | | |
| | | <ol style="list-style-type: none"> 1. Maintain the optimum room temperature in Sericulture unit. |
| Dairy | | <ul style="list-style-type: none"> ➤ Congenial climate and abundant fodder availability facilitate improved Dairy, Piggery, Poultry, Sheep and Goat rearing. ➤ Vaccinate the cow against the Haemorrhagic Septecemia (HS) and Black Quarter (BQ) Disease at the age of six month old calf. <p>Feeding of lactating cow</p> <ul style="list-style-type: none"> ➤ Proper feeding of dairy cattle should envisage minimum wastage of nutrients and |

| | |
|--|---|
| | <p>maximum returns in respect of milk produced.</p> <ul style="list-style-type: none">➤ A concentrate mixture made up of protein supplements such as oil cakes, energy sources such as cereal grains (Maize, Jowar), tapioca chips and laxative feeds such as brans (rice bran, wheat bran, gram husk) is generally used.➤ Mineral mixture containing major and all the trace elements should be included at a level of 2 percent. <ol style="list-style-type: none">1. Dietary fiber for milking cow should be 17 % and NDF (Neutral Detergent Fiber) 22 % |
| | |

**AMFU of IMD
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