UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU &
INDIAN METEOROLOGICAL DEPARTMENT

GRAMIN KRISHI MAUSAM SEWA
AMFU, OFRS, NAGANAHALLI,
MYSURU - 570003

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IMPACT BASED WEATHER FORECASTING
FOR
CHAMARAJANAGARA, KODAGU, MANDYA AND MYSURU DISTRICT

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

As IBF received from IMD, heatwaves may be expected from 24.04.2024 to 28.04.2024 in Chamarajanagara, Kodagu, Mandya nad Mysuru districts. Maximum temperature very likely to be rise by 2-3°C over the State for next 5 days.

Suggestions to Farmers for heat waves

❖ **Crop Selection:**
- Encourage farmers to select heat-tolerant crop varieties whenever possible.
- Suggest diversifying crops to include those better suited to withstand heat stress.

❖ **Soil Management:**
- Recommend maintaining soil moisture through techniques like conservation tillage, which helps retain soil moisture and reduces evaporation.
- Advise farmers to avoid excessive soil disturbance during hot and dry periods to minimize moisture loss.

❖ **Timing of Operations:**
- Suggest scheduling planting, irrigation, and other field operations during cooler parts of the day, such as early morning or late evening.
- Encourage the use of drip irrigation or other efficient irrigation methods to minimize water loss and optimize water uptake by crops.

❖ **Monitoring and Scouting:**
- Stress the importance of regular monitoring of crops for signs of heat stress, such as wilting, leaf curling, or yellowing.
- Encourage farmers to scout for pests and diseases, as heat-stressed crops may be more susceptible to infestations.

❖ **Nutrient Management:**
- Emphasize the need for balanced nutrient management to support crop health and resilience during periods of heat stress.
- Suggest foliar application of micronutrients to help alleviate heat-induced nutrient deficiencies and enhance plant vigor.

❖ **Harvest Management:**
- Advise farmers to harvest crops promptly when they reach maturity to prevent heat damage or yield losses.
- Recommend early harvesting of heat-sensitive crops to minimize exposure to extreme temperatures.

❖ **Post-harvest Handling**:

- Provide guidance on proper post-harvest handling practices to maintain crop quality and reduce post-harvest losses during hot weather.
- Stress the importance of rapid cooling and proper storage to minimize heat-related deterioration and spoilage.

❖ **Horticultural Crops:**

- Similar to crops, ensure horticultural crops receive adequate water through drip irrigation or sprinklers during cooler parts of the day.
- Recommend providing shade to delicate plants or covering them with breathable cloth to prevent sunburn and heat stress.

❖ **Poultry Management:**

- Ensure proper ventilation in poultry houses to prevent heat buildup.
- Provide cool, fresh water frequently to prevent dehydration in poultry.
- Consider adding electrolytes to the drinking water to help birds cope with heat stress.

❖ **Sericulture:**

- Maintain proper ventilation in sericulture units to prevent heat stress among silkworms.
- Keep temperature and humidity levels in the rearing environment within optimal ranges.
- Ensure adequate watering of mulberry plants to prevent wilting and stress.

❖ **Livestock Management:**

- Provide shade and shelter for livestock, ensuring proper airflow to reduce heat stress.
- Ensure ample access to clean, cool drinking water at all times.
- Consider adjusting feeding schedules to cooler times of the day to minimize heat stress during digestion.

❖ **General Precautions:**

- Advise farmers to monitor weather forecasts regularly and stay updated on any changes in temperature or weather conditions.
- Encourage them to seek assistance from agricultural extension services or veterinary professionals if they observe any signs of heat stress or health issues in their crops or livestock.
- Emphasize the importance of personal health and safety, including staying hydrated, taking frequent breaks, and avoiding outdoor work during the hottest parts of the day.

➢ **Download "DAMINI" app to get early warning on lightening and take precautions based on the alert given by the application.**

➢ **Kindly download"MAUSAM" APP for location specific forecast & warning &"MEGHDOOT" APP for Agromet advisory**

➢ **This information is available in the website: mausam.imd.gov.in**

For any information farmers can contact Dr.C.Ramachandra, Senior Farm Superintendent/ Dr. Sumanth Kumar.G.V, Research Assoicateover phone No. 0821-259126/ 9535345814.

AMFU of IMD,
Naganahalli, Mysuru