



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
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AMFU OF IMD, BENGALURU



AGROMET-ADVISORY BULLETIN

Date: **15.03.2024**

Issued jointly by, UAS, Bengaluru & Indian Meteorological Department

The forecast is valid for Bengaluru Rural district.
Significant past weather for the preceding week

Weather forecast (Valid from 16-03-2024 to 20-03-2024)

Forecast summary:

Parameters	16.03.2024	17.03.2024	18.03.2024	19.03.2024	20.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	35	35	35
Min Temp Trend (°C)	22	22	22	22	22
Total cloud cover (octa)	2	1	0	0	3
Relative humidity (%)Max	40	58	65	62	59
Relative humidity (%)Min	26	21	19	19	21
Wind speed(Km/hr)	11	16	13	11	12
Wind Direction (Degrees)	189	154	126	116	124

No rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 35.0°C and Minimum of 22.0°C. Relative humidity 40-65 % during morning hrs and 19-26 % during noon is expected. Wind speed is 11-16 km/hr.

Weather Based Agro Advisories

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

District	Kharif crops				Horticulture crops	
Bangalore Rural (BR)	Groundnut	Redgram	Finger millet	Maize	Grape	Mango
	--	-	-	--	-	FD

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, CI: Cob Initiation

Agromet Advisory:

Crop/ Component	Stage/ Condition	Pest and Disease	Agro advisories
General			<ol style="list-style-type: none"> 1. Remove the half cutted stubbles of pigeon pea from their fields. This will avoid multiplication and spreading of sterility mosaic disease 2. One or two protective irrigation required for mango and other horticultural plantation to protect from fruit drop due to successive dry spells. 3. Due to continuous dry spell since December month, the termite attack is common in horticulture and Forestry tree and shrubs hence control to apply Aldrin termicides for control of termites. 4. Advised to take up winnowing, cleaning, drying and storing in dry gunny bags of harvested Rabi crops. 5. Carry out threshing of the harvested crops, the grains should be dried by retaining moisture percentage of cereals to 11-12 %.

, Pulses-9%, Oilseeds-8% and Vegetable seeds 5-6% for long storage & also minimize the store pest damage.

Horticulture crop

Mango

Fruit Development stage (Marble stage)

1. If sufficient water is available, irrigation can be given at 15-20 days interval starting from fruit setting till maturity.
2. Dropping of fruits in mango trees was noticed. To manage this by giving adequate quantity of irrigation water (go for drip irrigation where ever it possible) at marble stage.
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. To control the malformation, thorough pruning of affected flowers parts between trees to reduces the spread of pests and disease and spray Carbendazim @ 1 g/L to control disease

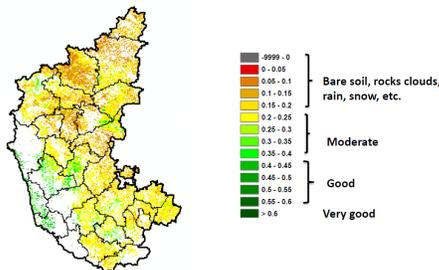
Animal Husbandry

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.

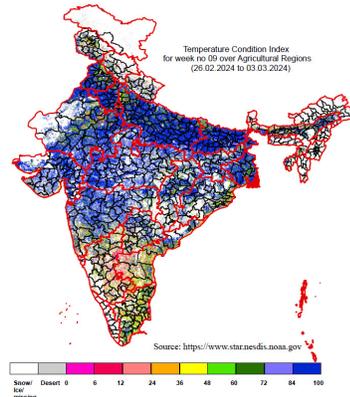
NDVI

NOAA/VIIRS/BLENDED NDVI Composite ending on Week no 09 (26.02.2024 to 03.03.2024) over Agricultural region Karnataka

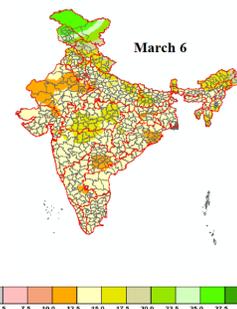
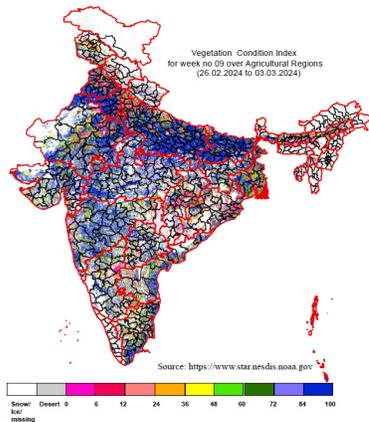


Agriculture vigour is good at few places of coastal Karnataka.

Temperature Condition Index



Forecasted Soil Moisture (%) for 6 March 2024 (ending at 0830 IST) for 60 cm depth



Vegetative Condition Index

Forecasted Soil moisture (60 cm depth)

**BLOCK LEVEL WEATHER FORECAST
DEVANAHALLI BLOCK**

Parameters	13.03.2024	14.03.2024	15.03.2024	16.03.2024	17.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	34	35	35
Min Temp Trend (°C)	20	21	21	22	20
Total cloud cover (octa)	1	2	2	3	2
Relative humidity (%)Max	48	77	52	51	52
Relative humidity (%)Min	21	22	29	24	21
Wind speed(Km/hr)	14	10	9	12	15
Wind Direction (Degrees)	113	191	225	162	135

DODDABALLAPURA BLOCK

Parameters	13.03.2024	14.03.2024	15.03.2024	16.03.2024	17.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	35	35	35
Min Temp Trend (°C)	21	22	22	21	19
Total cloud cover (octa)	1	1	2	3	0
Relative humidity (%)Max	53	61	54	63	59
Relative humidity (%)Min	21	22	24	23	21
Wind speed(Km/hr)	14	12	10	15	16
Wind Direction (Degrees)	113	117	203	158	148

HOSKOTE BLOCK

Parameters	13.03.2024	14.03.2024	15.03.2024	16.03.2024	17.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	34	35	35
Min Temp Trend (°C)	21	22	22	22	20
Total cloud cover (octa)	1	2	2	3	1
Relative humidity (%)Max	49	62	46	51	52
Relative humidity (%)Min	21	22	28	23	20
Wind speed(Km/hr)	15	11	11	13	17
Wind Direction (Degrees)	79	135	225	162	135

NELAMANAGALA BLOCK

Parameters	13.03.2024	14.03.2024	15.03.2024	16.03.2024	17.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	35	35	35
Min Temp Trend (°C)	21	22	22	21	19
Total cloud cover (octa)	1	1	2	3	0
Relative humidity (%)Max	51	68	53	61	59
Relative humidity (%)Min	21	22	25	23	20
Wind speed(Km/hr)	14	12	9	14	16
Wind Direction (Degrees)	113	117	210	158	135