



UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU
GRAMIN KRISHI MAUSAM SEWA(GKMS)
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 urban district.

Significant past weather for the preceding week

Parameter	11.03.2024	12.03.2024	13.03.2024	14.03.2024	15.03.2024
Rainfall (mm)	0	0	0	0	0
Max. temp(°C)	34.2	34.6	35.0	34.8	34.2
Min.Temp(°C)	21.2	21.6	21.4	21.0	21.8
Sky condition(Octas)	0	0	0	0	0
Relative humidity(%) 0830 hours	72	68	75	74	79
Relative humidity(%) 1730 hours	31	33	36	35	33
Wind Speed (kmph)	3.0	5.2	6.4	7.2	7.6
Wind Direction	180	180	180	230	45

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)	36	35	35	35	35
Min Temp Trend (°C)	22	21	22	22	22
Total cloud cover (octa)	2	1	0	0	2
Relative humidity (%)Max	41	59	65	61	60
Relative humidity (%)Min	25	21	18	19	22
Wind speed(Km/hr)	11	15	13	11	11
Wind Direction (Degrees)	154	135	126	116	120

No rain forecasted by IMD, Bangalore during next 5 days. The Maximum temperature ranges from 35.0-36.0°C and Minimum of 21.0-22.0°C. Relative humidity 41-65 % during morning hrs and 18-25 % during noon is expected. Wind speed is 11-15 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)	--	-	-	--	-	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

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

		<p>horticultural plantation to protect from fruit drop due to successive dry spells.</p> <ol style="list-style-type: none"> 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 termiticides for control of termites. Advised to take up winnowing, cleaning, drying and storing in dry gunny bags of harvested Rabi crops. 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)	<ol style="list-style-type: none"> If sufficient water is available, irrigation can be given at 15-20 days interval starting from fruit setting till maturity. 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. 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. 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

	<p>Livestock management during summer:</p> <ul style="list-style-type: none"> ❖ 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.
--	---

BLOCK LEVEL WEATHER FORECAST BANGALORE SOUTH BLOCK

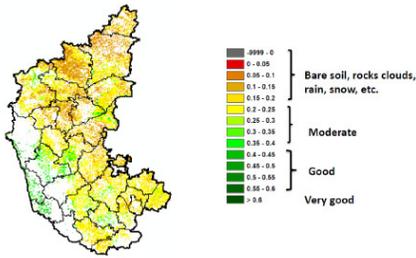
Parameters	13.03.2024	14.03.2024	15.03.2024	16.03.2024	17.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	35	35	35
Min Temp Trend (°C)	21	21	22	22	20
Total cloud cover (octa)	1	1	2	3	0
Relative humidity (%)Max	49	74	50	56	55
Relative humidity (%)Min	21	22	26	23	21
Wind speed(Km/hr)	14	11	10	13	16
Wind Direction (Degrees)	113	117	203	158	135

BANGALORE NORTH 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	21	22	22	20
Total cloud cover (octa)	1	1	2	3	0
Relative humidity (%)Max	49	74	50	56	55
Relative humidity (%)Min	21	22	26	23	21
Wind speed(Km/hr)	14	11	10	13	16
Wind Direction (Degrees)	113	117	203	158	135
BANGALORE EAST 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	21	22	22	20
Total cloud cover (octa)	1	1	2	3	0
Relative humidity (%)Max	49	74	50	56	55
Relative humidity (%)Min	21	22	26	23	21
Wind speed(Km/hr)	14	11	10	13	16
Wind Direction (Degrees)	113	117	203	158	135

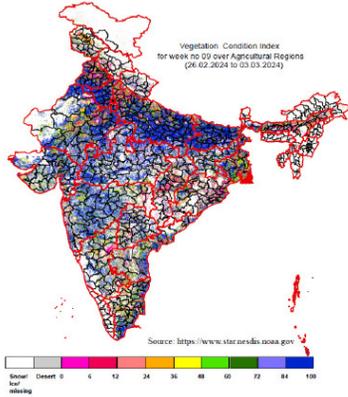
ANEKAL BLOCK					
Parameters	13.03.2024	14.03.2024	15.03.2024	16.03.2024	17.03.2024
Rainfall (mm)	0	0	0	0	0
Max Temp Trend (°C)	35	35	36	35	35
Min Temp Trend (°C)	21	22	22	22	19
Total cloud cover (octa)	1	1	3	4	0
Relative humidity (%)Max	54	70	55	65	67
Relative humidity (%)Min	22	23	27	24	22
Wind speed(Km/hr)	13	10	6	12	15
Wind Direction (Degrees)	108	117	120	122	122

NDVI

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

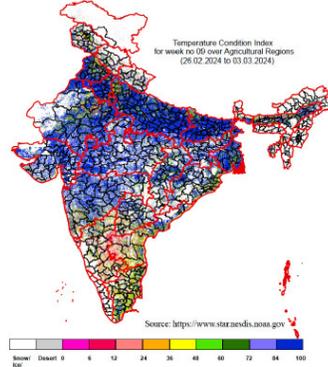


Agriculture vigour is good at few places of coastal Karnataka.

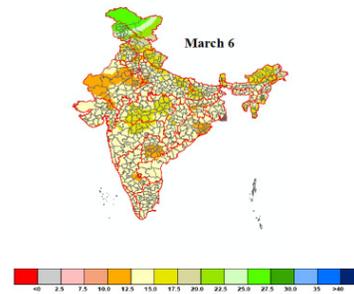


Vegetative Condition Index

Temperature Condition Index



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



Forecasted Soil moisture (60 cm depth)