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District: - Bikaner

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Weather Forecast and Agromet Advisory
Period 30th April 2024 to 04th May 2024

Weather review of last week: During this period the maximum temperature ranged between 36.7 to 40.0 °C and the minimum temperature ranged between 18.0 to 21.5°C. During this period, low wind speed observed with RH values of 16 % to 57%.	Weather forecast for the coming week: On the basis of the information received from the India Meteorological Department, New Delhi and Regional Meteorological Centre, Jaipur, weather for the next 5 days in Bikaner district (30.04.2024 to 04.05.2024) clear sky on 30.04.2024, 01.05.2024 & 04.05.2024, overcast on 02.05.2024 and cloudy on 03.05.2024. T _{min} will possibly range between 22.0-30.0°C and the T _{max} is likely to remain between 33.0-42.0 °C. During this period, high winds velocity are likely to blow from then North, South, West-South-West, North-West and West-North-West directions.
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Weather Parameter	Date				
	30.04.2024	01.05.2024	02.05.2024	03.05.2024	04.05.2024
Rainfall (mm)	0	0	0	1	0
Cloud cover	Clear Sky	Clear Sky	Overcast	Cloudy	Clear Sky
Temperature Maximum (° C)	36	33	37	40	42
Temperature Minimum (° C)	22	24	25	30	30
Wind direction	WNW	N	S	WSW	NW
Maximum Relative humidity (%)	10	7	5	13	10
Minimum Relative humidity (%)	38	18	12	24	22
Wind velocity(km/hr)	13	6	10	19	12
Cumulative rains (mm)	01.00				

Agro Advisory: Based on the weather review of last week and the weather forecast for this week, the following advice is given to the farmer.

Specifications	There is a possibility of cloudy sky and light rain with Thunderstorm /Lightning accompanied with hail and gusty winds (Speed 30-40 Kmph) in coming days. Harvest crops and Keep the harvested crops and crop products at a safe place. Store the grains and commodities kept in the open in the Krishi Mandies in a safe place so that they can be saved from getting wet. Stay away from trees, poles and water sources during thunder and lightning and take shelter in a safe place.
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Crop	Stage	Details	Agro Advisory
Desi Cotton	Preparation for sowing	Sowing time, varieties, seed rate and crop geometry	Appropriate time for Indian cotton sowing with varieties RG-8, RG-18, RDH-9, HD-123 or RG-542. 3 kg seed per bigha is suitable for sowing of desi cotton. Sowing geometry of Indian cotton is 67.5 cm (line to line) X 60 cm (plant to plant).
Bt Cotton	Preparation for sowing	Sowing time, varieties, seed rate and crop geometry	Optimum sowing time of Bt. cotton is 1 st May to 20 th May. But by sowing between April 15 and May 15, the attack of pink bollworm in the crop can be reduced. Sowing on the periphery of the cotton field non B.T. of the same variety. Hybrid (refugia) must be sown. Use seed rate of B.T. cotton at 450 grams per bigha. Keep row to row 108 cm and plant to plant distance 60 cm.
American cotton	Preparation for sowing	Field preparation, sowing time and seed rate	The sowing time of American cotton will start from first week of May. For field preparation one deep ploughing should be done by MB plough and 2-3 ploughing should be done by cultivator and use 30-35 qt FYM per bigha during the field preparation. 4 kg seed per bigha is suitable for sowing of american cotton.
Forage management		fodder crops, varieties and cutting	To get green fodder during June - July months, fodder crops like fodder pearl millet, Giant Bajra, sorghum, cowpea can be done at this time as per the availability of water. First cutting from fodder pearl millet sown in the end of February can be taken at this time (45 to 55 days after sowing) and further cuttings can be taken at 30 to 40 days interval.
Horticulture		Irrigation	Timely irrigate the horticultural fruit crops such as date palm, Kinnow, orange and lemon and vegetable crops such as kakari, water melon, muskmelon, tinda and tomato.
Ber		Pruning	Start pruning operation in Ber and it should be completed by end of May. It is most essential operation in Ber as flowering and fruiting takes place only on the new growth branches.
Cucurbit Vegetables	Fruiting	Insect control	For control of fruit fly in cucurbits like Water melon, muskmelon and Kakari, do spray of malathion 50 EC @ 1 ml/lit of water.
Grain storage			Store the grain at or below 8 per cent moisture. Old gunny bags should be used after dry in sun light. Go down should be crack less and be fumigated @3g Celphos per 200 cubic fit before storing the grain then closed air tight. Go down should be safe from rats.

Assistant Professor and Technical Officer
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Zonal Director Research and
Nodal Officer - Gramin Krishi Mausam Sewa