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उत्तमा वृत्तिस्तु कृषिकर्मेव

Ref. No.F.(2)/Agromet/24 **Dated:17.01.2025**

District: - Bikaner

Weather Forecast and Agromet Advisory

Period 17th January 2025 2024 to 21th January 2025

Weather review of last week: During this period, the maximum temperature ranged between 18.0 to 21.6 ºC and the minimum temperature ranged between 2.3 to 5.0ºC. During this period, low wind speed observed with RH values of 34 % to 86%.	**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 (17.01.2025 to 18.05.2025) partially cloudy on 14.01.2025, overcast on 15.01.2025 to 16.01.2025 & 21.01.2025 and cloudy on 17.01.2024. T_{min} will possibly range between 08.0-10.0ºC and the T_{max} is likely to remain between 22.0-26.0 ºC. During this period high wind velocity is likely to blow coupled with very low relative humidity? Wind blow from then North-North-East, North-East East-South-East, South-South-West and North-West directions.				
Weather Parameter	**Date**				
	17.01.2025	18.01.2025	19.01.2025	20.01.2025	21.01.2025
Rainfall (mm)	**0**	**0**	**0**	**0**	**0**
Cloud cover	Partially Cloudy	Partially Cloudy	Partially Cloudy	Partially Cloudy	Partially Cloudy
Temperature Maximum (º C)	**22**	**23**	**24**	**26**	**25**
Temperature Minimum (º C)	**8**	**9**	**9**	**10**	**10**
Wind direction	NNE	NE	ESE	SSW	NW
Minimum Relative humidity (%)	**10**	**10**	**12**	**17**	**15**
Maximum Relative humidity (%)	**21**	**18**	**17**	**32**	**23**
Wind velocity(km/hr)	**7**	**7**	**10**	**13**	**10**
Cumulative rains (mm)	**00.00**				

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.

Specific advisory	Control weeds wherever it found. Conserve every drop of water and moisture for future. **Drive slowly/carefully during less visibility to protect lives.** Protect field crops and orchards from cold wave and frost, spray 0.1% sulfuric acid (1 ml sulfuric acid per liter of water). Do not use urea more than the recommended quantity according to the crop. For good growth of crops spray 1 percent NPK (19:19:19) in standing crop.

Crop	**Stage**	**Details**	**Agro Advisory**
Wheat	Growth	Irrigation & fertilizer	In late sown crop, provide the second irrigation at late tillering stage (40-45 DAS) and third irrigation at jointing stage (60-65 DAS) split doses of urea should be applied with all initial three irrigations.
Barley	Growth	Weed control	For the control of broad leaved weeds in barley, spray 500 gm 2, 4 - D ester salt 4 g metsulfuron methyl in 500 to 700 liters of water per hectare at 30 to 35 days of sowing in dwarf varieties, and after 40 to 45 days of sowing in other varieties.
		Zinc deficiency	Deficiency symptoms of zinc appear in the standing in wheat & barley crops, spray of 0.33 percent zinc sulphate (33 percent) and 2 percent urea (50 grams of zinc sulphate and 300 grams of urea per 15 liters of water) are applied after 35-40 days of sowing.
Mustard	Vegetative stage	White rust	On appearance of early symptoms of white rust (irregular white bristles on leaves) apply 2 g redomil MZ per liter of water.
	Growth	Frost management	Spray 0.1 % solution of sulphuric acid to protect mustard crop from frost. Dissolve one litre of sulphuric acid in 1000 liters of water and spray it in per hectare crop. Smoke the ridges of the fields at night.
Forage crop	Growth	Irrigation & fertilizer	Do first cut of multi-cut oat at 60-65 days after sowing and after cutting apply 65 kg urea per hectare with irrigation water.
Horticulture		Irrigation	Irrigate regularly ber, kinnow and other orchards for quality fruits.
		Frost management	Cover the new plants with munja thatches, gunny bags, non-woolen material and locally available material.
Livestock		Cold management	All domestic animals should remain in covered and protected area during night and morning hours to protect from cold wave. Change the litter of animals timely and make arrangement of plenty of drinking water for the animals. Incorporate concentrates and mineral mixtures into animal feed to obtain good quality more milk.

Associate Professor and Technical Officer
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