



## **Agromet Advisory Bulletin**

**Date: 21.05.2024**

**Weather Forecast of District UDHAMSINGH-NAGAR (Uttarakhand) Issued On: 2024-05-21 (Valid Till 08:30 IST of the next 5 days)**

Parameter	22/05/2024	23/05/2024	24/05/2024	25/05/2024	26/05/2024
Rainfall(mm)	0.0	0.0	0.0	0.0	0.0
Max Temp(°C)	39.0	39.0	39.0	39.0	39.0
Min Temp(°C)	23.0	24.0	24.0	24.0	25.0
Max RH I (%)	65	65	65	65	65
Min RH II (%)	30	30	30	30	30
Wind speed (km/h)	12	12	12	10	12
Wind direction	130	130	130	130	130
Cloud cover	1	1	1	1	1

### **Weather Summary/Alert:**

Last week (14 to 20 May) 0.0 mm rainfall was recorded and the maximum-minimum temperature varied between 35.0 to 42.0°C and 20.4 to 27.4°C, respectively. The morning and evening relative humidity ranged between 44-69% and 16-41%, respectively while the wind blew from west, west-north-west, south-west, south and south-east direction at a speed varying between 2.7-7.1 kmph. Weather was clear on most of the days last week with light clouds on very few days during morning and evening hours. The upcoming forecast shows no rainfall and maximum-minimum temperature are expected to vary as 39.0°C and between 23.0-25.0°C, respectively. The wind is expected to blow from south-east direction at a speed of 10-12 kmph. Dry weather is likely to prevail during the period.

### **General Advisory:**

Farmers can download the "Meghdoot" and "Damini" app available for regular update of meteorological and lightning data, respectively from Google Play Store (Android users) and App Centre (iOS users). The NDVI shows moderate agricultural vigour in the region. The extended range forecast shows large deficient rainfall and normal maximum-minimum temperature trend during 17.05.2024 to 23.05.2024. Dry weather has been predicted so frequent irrigation and application of 1% boron, 1% KNO<sub>3</sub>, ascorbic or salicylic acid to control heat shock in crops.

### **SMS Advisory:**

As per the IMD prediction, dry weather has been predicted so farming practices to avoid heat shock in plants should be done.

### Crop Specific Advisory:

Crop (Varieties)	Stage	Crop Specific Advisory
Sunflower	Flowering/Seed formation	The crop should be regularly irrigated as per requirement at flowering/seed formation. The mature heads should be protected from birds and parrots. Spraying of quinalphos 25 EC @ 2 ml/l, or chlorpyriphos 20 EC @ 2.5 ml/l is recommended when the bihar hairy caterpillars appear.
Urd/Moong	Vegetative	The crop should be irrigated as and when required and regular weeding-hoeing should be done. 1% KNO <sub>3</sub> spray for moisture stress or application of ascorbic/salicylic acid to avoid heat shock in plant.
Daincha	Sowing	Irrigation application should be done in the freshly sown crop.
Sugarcane	Vegetative	Regular irrigation application along with hoeing-weeding should be done and after irrigation top-dressing of urea should be done. Recommended pesticide should be used against the black bug attack. Irrigation can be applied at 10-12 days interval.
Spring maize	Taselling/Cob filling	Optimum moisture maintenance is must after tasseling stage in crops so irrigation should be applied once in a week. 1% KNO <sub>3</sub> spray for moisture stress or application of ascorbic/salicylic acid to avoid heat shock in plant.

### Horticulture Specific Advisory:

Horticulture (Varieties)	Stage	Horticulture Specific Advisory
Cowpea	Vegetative	The crop should be irrigated as and when required and regular weeding-hoeing should be done. 1% KNO <sub>3</sub> spray for moisture stress or application of ascorbic/salicylic acid to avoid heat shock in plant.
Pumpkin/Other cucurbits	Vegetative/fruiting	In case of leaves giving a mottled appearance, the plants should be separated and sarvangi should be used for sucking pests. Regular irrigation should be applied as required. 1% KNO <sub>3</sub> spray for moisture stress or application of ascorbic/salicylic acid to avoid heat shock in plant.
Ladyfinger	Vegetative/fruiting	If the veins of leaves of okra crop are turning yellow, then destroy the plants and Sarvangi insecticide should be sprayed to control the juice sucking insects. Regular irrigation should be applied and suitable mulching operations should be done to conserve moisture.
Mango	Fruiting	Higher temperatures may cause fruit drop and effect the fruit growth so regular spraying of water and 1% boron should be done to avoid heat shock. Regular irrigation and mulch practice should be followed to conserve moisture.
Litchi	Fruiting	Less water and humidity cause fruit splitting thus regular spraying of water and 1% boron should be done to avoid heat shock. Regular irrigation and mulch practice should be followed to conserve moisture.

### Live Stock Specific Advisory

Livestock	LiveStock Specific Advisory
Cow	Temperature of animal shed should be maintained using cooling devices such as fan, cooler or latest cooling device to maintain the productivity of foreign cows and save them from diseases. Foreign cows are unable to tolerate excessive heat, due to which their ability to consume food decreases which affect their production. Therefore, to maintain the production of foreign cows and to prevent diseases, temperature of animal shed should be maintained

	using cooling equipment like fan, cooler or latest cooling devices.
Buffalo	In the summer season, time to time spraying of melathiyam or other insecticide should be done in the drains near the animal shed. Due attention should be given to arrangements for provision of water to animals. The drinking troughs should be kept clean and animals should be provided water at least four times during the day. If symptoms of mastitis are seen in dairy cattle, treat it immediately

**Others (Soil/Land Preparation)**

<b>Others (Soil/Land Preparation)</b>	<b>Others (Soil/Land Preparation) Specific Advisory</b>
General Advice	Intercultural operations should be done in sugarcane and cucurbits. Irrigation should be applied to the crops during evening hours. Mulch should be used to conserve moisture.