



**Gramin Krishi Mausam Sewa**  
**District Level Agromet Advisory Bulletin**  
**Govind Ballabh Pant University of Agriculture & Technology**  
 Udham Singh Nagar, Pantnagar, Uttarakhand



## Agromet Advisory Bulletin

**Date: 20.09.2024**

**Weather Forecast of District UDHAMSINGH-NAGAR (Uttarakhand) Issued On: 2024-09-20 (Valid Till 08:30 IST of the next 5 days)**

Parameter	21/09/2024	22/09/2024	23/09/2024	24/09/2024	25/09/2024
Rainfall(mm)	0.0	0.0	5.0	0.0	0.0
Max Temp(°C)	33.0	33.0	33.0	34.0	34.0
Min Temp(°C)	22.0	21.0	21.0	22.0	22.0
Max RH I (%)	75	75	80	75	75
Min RH II (%)	30	30	35	30	35
Wind speed (km/h)	2	2	4	3	2
Wind direction	90	300	300	300	140
Cloud cover	1	1	3	1	2

### Weather Summary/Alert:

Last week (13 to 19 September), the region experienced 198.6 mm rainfall with the maximum-minimum temperature ranging 25.0 to 33.5oC and 22.9 to 25.4oC, respectively. The morning and evening relative humidity varied between 84-96% and 58-95%, respectively while the wind blew from north, north-east and north-north-east ranging 1.6-16.5 kmph. Most of the days were clear last week. The upcoming forecast shows very light rainfall of 0-5 mm from 20-24 September and maximum-minimum temperature are expected to vary as 33.0-34.0oC and 21.0-22.0oC, respectively. The wind is expected to blow from east, north-west-north and south-east at a speed of 2-4 kmph. Very light to light rain is likely to occur at isolated places on 25 and 26 September.

### General Advisory:

For regular updates on weather conditions in the region, the farmers can get updates from the app "Meghdoot" and lightning update from the app "Damini" available on Google Play Store (Android users) and App Centre (iOS users). The NDVI shows good agricultural vigour in the isolated regions of the state ranging 0.30-0.60. The extended range forecast shows large deficient rainfall and normal maximum-minimum temperature trend during 20.09.2024 to 26.09.2024.

### SMS Advisory:

As per the IMD forecast, very light rainfall has been predicted so irrigation should be applied as and when required and spraying operations should be scheduled accordingly.

### Crop Specific Advisory:

Crop (Varieties)	Stage	Crop Specific Advisory
Rice	Panicle initiation	On occurrence of bacterial blight symptoms such as water-soaked spots on the leaves which gradually increase to become long stripes ultimately light brown. In case of excessive disease, spray 15 grams of streptocycline + 500 grams of copper oxychloride in 1000 liters of water per hectare. The spray should be done at 7-10 days interval. On the occurrence of stem borer above

		ETL, chlorantraniliprole 20 SC @150ml/ha or flubendiamide 480 SC @75ml/ha or Fipronil 5 SC @ 1.0 lit or 600 g Cartap hydrochloride 50 WP or 2,5 lit of Chlorpyrifos 20 EC in 500-600 lit of water /ha should be sprayed. On occurrence of common pest i.e. brown plant hopper farmers need to spray Triflumezopyrim 10 SC @235ml/ Fipronil 5 SC @1000 ml/ Buprofezin 25 SC @1 litre/ Thiamethoxam 25 WSG @100gm mixed in 500 litre water per hectare. The spray should be done near the stem. Buprofezin should be used in case of less infestation, Triflumezopyrim in case of heavy infestation and Fipronil 5 SC in case of stem borer+brown plant hopper attack.
Sugarcane	Grand growth	The most prevalent red rot disease symptoms may appear which occurs after monsoon season and continues to persist till harvesting. For this the farmers need to use resistant varieties and keep their fields clean. The infested canes should be plucked from the root and burned to stop further spread. Complete destruction of infected canes and use of treated seeds are the best preventive measures. As per the requirement, the three stalks of two lines should be tied together (scissors tied). In case of white grub infestation Fipronil 40 percent and Imidacloprid 40 percent WG@200g/acre should be applied in the field by dissolving it in 500 liters of water. The sowing of autumn sugarcane should be done with treated sugarcane seed by Carbendazim 50% WP @0.1% solution for 10 mins. For autumn sowing the lower 2/3rd portion of sugarcane stalk is used.
Maize	Vegetative	As the cobs start filling, irrigation should be applied as per requirement. On occurrence of pest infestation appropriate farming measures should be taken. In case of fall army worm attack in the plain regions, Chlorantraniliprole 18.5 SC @0.4ml/l of water should be applied. Apply Mancozeb or Zineb 75 WP @ 1.5 -2.0 kg in 750- 800 litres of water per hectare on occurrence of blight (Yellow or brown coloured egg ship shaped spots).Second spraying should be done at 10-15 days interval. The early maize varieties should be harvested on maturity.
Black gram/ green gram	Vegetative	On occurrence of yellow mosaic virus which is transferred by white fly, apply pyriproxyfen 10 E.C. @0.5 litre / ha mixed in 500-600 litre of water at 10-12 days interval. The farmers should use resistant varieties against yellow mosaic virus.
Soyabean	Pod development	Sufficient soil moisture should be maintained on flower/pod formation. On occurrence of yellow mosaic virus which is transferred by white fly, apply pyriproxyfen 10 E.C. @0.5 litre / ha mixed in 500-600 litre of water at 10-12 days interval. The farmers should use resistant varieties against yellow mosaic virus
Groundnut	Vegetative/Pegging	In tikka disease, light brown circular spots are formed on the leaves, around which there are yellow circles on the lower surface. For its treatment, Chlorothalonil @2 kg/ha or Mancozeb 80% @2 kg/ha or Propiconazole 25 EC @500 ml dissolved in 800 to 1000 litres per hectare should be sprayed 2-3 times at an interval of 10-12 days. On pegging or pod formation sufficient soil moisture should be maintained by irrigating as and when required.

#### Horticulture Specific Advisory:

Horticulture (Varieties)	Stage	Horticulture Specific Advisory
Cauliflower	Transplanting	Four to six weeks after transplanting, light hoeing should be done and soil should be applied to the roots. Active Ingredient fluchlorolin @1.0 kg/ha should be applied for chemical weed control one day before planting.
Radish	Sowing	In radish crop on occurrence of dry weather light irrigation should be given just after sowing and second irrigation on appearance of 3-4 leaves

Carrot	Sowing/germination	After germination regular weeding should be done and plant to plant distance should be maintained at 6-10 cm.
Beetroot	Sowing/germination	When there is sufficient moisture after sowing, first irrigation should be done after thinning.
Spinach	Sowing/germination	3-4 irrigations are must for entire crop season and soil moisture should be maintained during the period

### LiveStock Specific Advisory

Livestock	LiveStock Specific Advisory
Cow	After 15 days calves should be fed with calcium, magnesium, phosphorus, zinc, iron, iodine and copper elements should be consumed in the form of salt mixture or mineral drops.
Buffalo	To prevent 'footrot' disease, hooves should be dipped in 10% formalin solution or 5% blue solution for 2-3 minutes in the morning and evening for at least 3 days.
Goat/Sheep	In rural areas, 2 shots of tetanus toxoid should be administered to sheep and goats at one month and the other at 5 months, so that newborn lambs do not get tetanus disease.