



## Agromet Advisory Bulletin

**Date: 19.09.2023**

**Weather Forecast of District UDHAMSINGH-NAGAR (Uttarakhand) Issued On: 2023-09-19 (Valid Till 08:30 IST of the next 5 days)**

Parameter	20/09/2023	21/09/2023	22/09/2023	23/09/2023	24/09/2023
Rainfall (mm)	1.0	8.0	5.0	5.0	5.0
Max Temp (°C)	35.0	34.0	32.0	33.0	33.0
Min Temp (°C)	25.0	25.0	25.0	24.0	24.0
Max RH I (%)	75	85	85	85	90
Min RH II (%)	50	55	60	60	60
Wind speed (km/h)	6	8	8	12	8
Wind direction	70	70	70	130	70
Cloud cover	5	4	4	2	4

### Weather Summary/ Alert:

In the last seven days (September 12-18), 19.2 mm of rainfall was recorded and the maximum and minimum temperature ranged between 29.0 to 34.5 °C and 24.3 to 26.8 °C. The sky remained cloudy on most of the days during the last week. The morning relative humidity ranged between 87 to 95% at 0712 hrs and the evening relative humidity ranged between 61 to 88% at 1412 hrs. The wind speed was 0.1 to 2.5 kmph and the wind direction was mostly towards north and North-North-East. The forecast for the upcoming five days shows light drizzle ranging 1-8 mm with maximum and minimum temperature ranging 32 to 35 degree celsius and 24-25 degree celsius. The wind speed ranged 6-8 km per hour and direction was mostly east-north-east. Light to moderate rain/thunderstorm is likely to occur at a few places in Udham Singh Nagar district on 20th September. Similar conditions might persist at isolated places on 19th, 21st, 22nd & 23rd September. Warning: A yellow warning regarding occurrence of thunderstorm/lightning accompanied by intense shower has been predicted for 20.09.2023.

### General Advisory:

The district wise weekly average rainfall shows large excess in the district i.e. 151.2 mm while the extended range rainfall report indicates normal rainfall for the region from 15 to 21st September. The realized rainfall from 7 to 13 September indicates 46% excess rainfall in the state which is 76.1 mm against 62.2 mm and the rainfall forecast map indicates normal rainfall conditions for the state. The farmers are advised to download "Meghdoot App" to get last week's weather, weather forecast and agrometeorological advice and "Damini App" to get lightning information. Meghdoot and Damini apps can be downloaded from Google Play Store (Android users) and App Center (iOS users). This will help them in taking right decisions regarding farming activities.

### SMS Advisory:

The state indicates light rainfall so farming activities can be taken up accordingly and soil moisture should be maintained under dry conditions.

### 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 phase/ Sowing	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 2/3 <sup>rd</sup> portion of sugarcane stalk is used.
Maize	Vegetative/maturity	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.
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.
Black 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	Flowering/pod formation	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 or pod formation	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/germination	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.

### Live Stock Specific Advisory

Livestock	Live Stock 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.