



## Agromet Advisory Bulletin

**Date: 22.09.2023**

**Weather Forecast of District UDHAMSINGH-NAGAR (Uttarakhand) Issued On: 2023-09-22 (Valid Till 08:30 IST of the next 5 days)**

Parameter	23/09/2023	24/09/2023	25/09/2023	26/09/2023	27/09/2023
Rainfall (mm)	15.0	15.0	10.0	8.0	8.0
Max Temp (°C)	33.0	33.0	32.0	32.0	32.0
Min Temp (°C)	23.0	23.0	23.0	23.0	24.0
Max RH I (%)	85	90	90	75	75
Min RH II (%)	60	60	60	60	55
Wind speed (km/h)	10	8	10	8	6
Wind direction	110	110	70	70	70
Cloud cover	3	3	3	1	1

### Weather Summary/ Alert:

In the last seven days (September 15-21), 22.4 mm of rainfall was recorded and the maximum and minimum temperature ranged between 29.0 to 34.5 °C and 23.9 to 26.7 °C. The sky remained partly cloudy and clear during the last week. The morning relative humidity ranged between 79 to 93% at 0712 hrs and the evening relative humidity ranged between 63 to 88% at 1412 hrs. The wind speed was 0.2 to 2.5 kmph and the wind direction was mostly towards north and North-North-East. The upcoming five day forecast shows drizzle to light rainfall ranging 8-15 mm with maximum and minimum temperature ranging 32 to 33 degree celsius and 23-24 degree celsius. The wind speed ranging 6-10 km per hour will mostly be from east-north-east direction. There is a likely occurrence of light to moderate rain/thunderstorm in isolated places of Udham Singh Nagar district on 22nd September. A yellow warning regarding the same has been issued for the mentioned date.

### General Advisory:

According to the Extended Range Forecast for the district the weekly average rainfall of 12.6 mm indicates largely deficient rainfall pattern for the last week i.e. 13-20 September and the upcoming week also indicates largely deficient rainfall. However the Realized Rainfall for the state shows normal rainfall i.e. 41.1 mm against 37.9 mm by 9%. The rainfall pattern indicates the high variability trend existing in 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 prediction shows drizzle to light rainfall during the upcoming week so the chemical applications should be done accordingly.

## Crop Specific Advisory:

Crop (Varieties)	Stage	Crop Specific Advisory
Rice	Reproductive stage	In case of excessive blight disease occurrence, spray 15 grams of streptocycline + 500 grams of copper oxychloride in 1000 liters of water per hectare. The spray should be repeated 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. The application should be done under clear weather conditions.
Sugarcane	Grand growth phase/ Sowing	To prevent prevalent red rot disease, 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. 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 application should be done under clear weather conditions. 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. The sowing should be done keeping the forecast in mind.
Maize	Vegetative/maturity	Avoid pest attacks by appropriate farming measures. In case of fall army worm attack, Chlorantraniliprole 18.5 SC @0.4ml/l of water should be applied while application of Mancozeb or Zineb 75 WP @ 1.5 -2.0 kg in 750- 800 litres of water per hectare should be done 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. All farming activities should be done keeping the forecast in mind.
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 and chemical application should be done keeping the forecast in mind.
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 and chemical application should be done keeping the forecast in mind.
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 and chemical application should be done keeping the forecast in mind.

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. All the farming activities should be done keeping the forecast in mind.
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### Horticulture Specific Advisory:

Horticulture (Varieties)	Stage	Horticulture Specific Advisory
Cauliflower	Seedling	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. All the applications should be done keeping the forecast in mind.
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. The irrigation should be applied keeping the forecast in mind.
Carrot	Sowing/germination	After germination regular weeding should be done and plant to plant distance should be maintained at 6-10 cm. The farming activities should be taken up keeping the forecast in mind.
Beetroot	Sowing/germination	When there is sufficient moisture after sowing, first irrigation should be done after thinning. The irrigation should be applied keeping the forecast in mind.
Spinach	Sowing/germination	3-4 irrigations are must for entire crop season and soil moisture should be maintained during the period. The irrigation should be applied keeping the forecast in mind.

### 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.