



**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: 27.09.2024**

**Weather Forecast of District UDHAMSINGH-NAGAR (Uttarakhand) Issued On: 2024-09-27 (Valid Till 08:30 IST of the next 5 days)**

| Parameter         | 28/09/2024 | 29/09/2024 | 30/09/2024 | 01/10/2024 | 02/10/2024 |
|-------------------|------------|------------|------------|------------|------------|
| Rainfall(mm)      | 15         | 10         | 6          | 0          | 0          |
| Max Temp(°C)      | 32         | 30         | 31         | 32         | 33         |
| Min Temp(°C)      | 22         | 20         | 21         | 21         | 22         |
| Max RH I (%)      | 85         | 85         | 70         | 70         | 70         |
| Min RH II (%)     | 40         | 40         | 30         | 30         | 30         |
| Wind speed (km/h) | 3          | 4          | 4          | 3          | 4          |
| Wind direction    | 110        | 50         | 340        | 320        | 320        |
| Cloud cover       | 7          | 8          | 5          | 4          | 3          |

### Weather Summary/Alert:

Last week (20 to 26 September), the region experienced 0 mm rainfall with the maximum-minimum temperature ranging 30.0 to 36.0oC and 24.7 to 26.1oC, respectively. The morning and evening relative humidity varied between 86-93% and 62-89%, respectively while the wind blew from north, north-east-north and north-north-east ranging 0.6-6.3 kmph. Most of the days were clear last week. The upcoming forecast shows light rainfall of 0-15 mm from 28 September-01 October and maximum-minimum temperature are expected to vary as 30.0-33.0oC and 20.0-22.0oC, respectively. The wind is expected to blow from east-south-east, north-east, north-north-west and north-west at a speed of 3-4 kmph. Light to moderate rain is likely to occur at a many places on 27 September and at few places on 28 September. Very light to light rain is likely to occur at isolated places on 29 & 30 September. A yellow warning regarding occurrence of thunderstorm accompanied with lightening/ Intense to very intense rain spell at isolated places has been given for 27 & 28 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 0.40-0.60. The extended range forecast shows large excess rainfall and normal maximum-minimum temperature trend during 27.09.2024 to 03.10.2024.

### SMS Advisory:

As per IMD forecast rainfall has been forecasted with yellow warning so the agricultural activities should be scheduled accordingly.

### Crop Specific Advisory:

| Crop (Varieties) | Stage              | Crop Specific Advisory  |
|------------------|--------------------|---|
| Rice             | Reproductive stage | 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.<br>All the sprays should be scheduled as per the forecast.  |
| Sugarcane                 | Grand growth/<br>Autumn 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.<br>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.<br>All the farming activities should be scheduled as per the forecast. |
| 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.<br>The harvested produce should be stored well and the autumn sowing should be scheduled as per the forecast.   |
| Black gram/<br>green gram | Vegetative/<br>Flowering             | 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.<br>All the farming operations should be scheduled as per the forecast.  |
| Soyabean                  | Flowering/ Pod<br>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.<br>All the farming operations should be scheduled as per the forecast.   |
| Groundnut                 | Vegetative/Pegging/<br>Pod formation | For treatment of tikka disease, 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.<br>On pegging or pod formation sufficient soil moisture should be maintained by irrigating as and when required. All the farming operations should be scheduled as per the forecast  |
| Sesame<br>(Gingelly/Till) | Vegetative                           | Phyllody is caused by phytoplasma that changes the shape of plants, flowers and leaves to bunch and is spread by plant hopper. This can be prevented by timely sowing of crop, application of Methyl-o-Demeton 25 E.C. @1.0 l/ha at an interval of 10-15 days and burning of the affected plants. The farming operations should be scheduled as per the forecast.  |

#### Horticulture Specific Advisory:

| Horticulture<br>(Varieties) | Stage              | Horticulture Specific Advisory  |
|-----------------------------|--------------------|---|
| Cauliflower                 | Seedling growth    | As per the soil conditions hoeing and weeding should be done in the field. Active ingredient fluchlorolin @1.0 kg/ha should be applied for chemical weed control one day before planting. The farming operations should be scheduled as per the forecast. |
| Radish/Carrot/ Beetroot     | Sowing/Germination | The soil moisture should be maintained in the field and regular weeding and thinning of the crop should be done. The farming operations should be scheduled as per the forecast.  |

|                   |                    |  |
|-------------------|--------------------|--|
| Spinach/Fenugreek | Sowing/germination | This is the best sowing time for leafy vegetable purpose. 3-4 irrigations are must for entire crop season and soil moisture should be maintained during the period.  |
| Citrus            | Fruiting           | If symptoms of citrus yellow mosaic virus is observed then prune the infected twigs and spray systemic insecticide such as imidacloprid 17.8 SL 1 ml/3 litre water or Thiamethoxam 25% WG @ 1g/3 litre water. Apply first spray of Thiamethoxam during initial appearance of pest and repeat 2 – 3 sprays at 15 – 21 days interval depending on the level of pest intensity. |

### 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. |
| 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.   |

### Poultry Specific Advisory

| Poultry | Poultry Specific Advisory   |
|---------|---|
| Hens    | Due to moisture, fungus grows in the feed due to which there is a deficiency of nutrients in the feed, which leads to a disease called aflatoxicosis. Due to this, worms develop in the stomach of the hens and their egg-laying capacity decreases. Such hens must be given deworming medicine once a month as per the advice of the veterinarian. |