

# ग्रामोभ्युदयादेव देशोभ्युदयः

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## Gramin Krishi Mausam Sewa Bulletin, District - Udham Singh Nagar

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As per forecast received from National Centre for Medium Range Weather Forecast, India Meteorological Department, Mausam Bhawan, New Delhi and value added to the forecast by Meteorological Centre, Dehradun for next five days for Udham Singh Nagar and plain area of Nainital districts are as follows:

| Parameter                | Udham Singh Nagar |            |            |            |            |
|--------------------------|-------------------|------------|------------|------------|------------|
|                          | 13/05/2017        | 14/05/2017 | 15/05/2017 | 16/05/2017 | 17/05/2017 |
| Rainfall (mm)            | 0                 | 0          | 0          | 0          | 0          |
| Max Temp ( $^{\circ}$ C) | 36                | 37         | 37         | 38         | 38         |
| Min Temp ( $^{\circ}$ C) | 24                | 22         | 21         | 22         | 23         |
| Cloud Cover              | P-Cloudy          | P-Cloudy   | P-Cloudy   | P-Cloudy   | P-Cloudy   |
| Max RH I (%)             | 80                | 80         | 80         | 80         | 80         |
| Min RH II (%)            | 35                | 35         | 35         | 35         | 35         |
| Wind speed (km/h)        | 06                | 10         | 12         | 08         | 10         |
| Wind direction           | ESE               | NW         | NW         | NE         | ESE        |

According to Meteorological observations recorded at Agrometeorological Observatory, AMFU- Pantnagar, G B Pant University of Agriculture & Technology (Altitude: 243.8 m) during last seven days (05 to 11 May, 2017) are as follows:

| Weather Parameter        | Udham Singh Nagar |            |            |            |            |            |            |
|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|
|                          | 05/05/2017        | 06/05/2017 | 07/05/2017 | 08/05/2017 | 09/05/2017 | 10/05/2017 | 11/05/2017 |
| Rainfall (mm)            | 0.0               | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| Max Temp ( $^{\circ}$ C) | 37.6              | 39.0       | 40.0       | 38.0       | 37.5       | 35.5       | 35.6       |
| Min Temp ( $^{\circ}$ C) | 19.8              | 19.6       | 20.5       | 27.5       | 21.2       | 24.5       | 23.6       |
| CC I                     | Cloudy            | Clear      | Cloudy     | Cloudy     | Cloudy     | Cloudy     | Clear      |
| CC II                    | Clear             | Clear      | Clear      | Cloudy     | P-Cloudy   | Clear      | Clear      |
| Max RH I (%)             | 62                | 55         | 48         | 59         | 86         | 63         | 62         |
| Min RH II (%)            | 15                | 15         | 41         | 46         | 38         | 36         | 38         |
| Wind speed (km/h)        | 5.1               | 6.9        | 3.6        | 10.2       | 9.7        | 10.7       | 9.2        |
| Wind direction I         | WNW               | WNW        | ESE        | ENE        | Calm       | ESE        | ENE        |
| Wind Direction II        | WSW               | WSW        | WSW        | ESE        | ESE        | ESE        | WSW        |

Weather Based Agro-Advisories

### **Crop Management:**

- Irrigation should be given in the sugarcane crop at an interval of 7-10 days.
- On the occurrence of black bug in sugarcane crop, phenthoate 50EC @ 1 liter/ha or 750 ml of monocrotophos 36 SL or 2liter of quinalphos 25 EC in 500liter of water should be sprayed.
- Bunding and summer ploughing of the field should be done in this month.
- If irrigation facility is available then sowing of dhaincha and sanai should be done after harvesting of wheat and other rabi crops for green manure.
- Progressive variety of sanai like Narendra sanai-1 and dhaincha variety like pant dhaincha-1, hisar dhaincha-1 etc should be selected. Seed rate for sanai should be 80-90 kg/ha and for dhaincha 60-80 kg/ha.
- Soil sample should be taken from different places in this month from fallow field after harvesting of rabi crops. Soil sample should be taken up to the depth of 20 cm.
- Harvesting and threshing of wheat and pulse crops should be completed at the earliest.

### **Horticultural Management:**

- To control dansi makkhi in mango orchard, pheromone trap made up of wood should be should be placed on tree (10 trap/ha) and pheromone trap should be changed in 2 months.
- To control the internal necrosis or koyaliya, 0.8-1.0 % (10g/liter) borax should be sprayed.
- On the occurrence of bacterial cancer, 200 ppm streptocycline (200ml/liter) should be sprayed.
- On the occurrence of black fungus or mildew, mixture of wetttable sulphur, Monocrotophos and gond (0.2, 0.05 & 0.06%) or starch should be sprayed.
- Necessary irrigation should be applied to maintain the proper moisture condition in the orchard.
- If the leaves of french bean and cowpea (lobia) shrink then sarvangi insecticide should be sprayed.
- Light irrigation should be given in the tomato and onion crop.
- Irrigation should be stopped in the onion crop having matured cloves, transplanted near 15-20 January.
- Stop the irrigation in the garlic crop. Collect the matured clove and keep them in the shed. Make the small bundle of these cloves and store in dry place with good ventilation.
- To save the chilly from Anthracnose disease (or ruchh rog), solution of copper oxi chloride @ 0.25% should be sprayed 2-3 times.
- To save the Okra from fruit borer insect, Sevin (Carbolic) @ 0.2 % should be sprayed.
- On the occurrence of yellow spot of irregular shape on cucurbitaceous crops, leaves should be examined by turning and if there is a growth of light gray fungus in the lower portion of leaves then it should be controlled by spraying the solution of Mancozeb @ 2.5 Kg/ Liter.
- 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.
- On the occurrence of fine mottled spot in upper leaves of chilly and tomato, Sarvangi insecticide at 10-15 days interval should be sprayed.
- On the occurrence of fruit borer in the Tomato, fruit should be used only after 3 days and 5 days of spraying of Chlorantraniliprole 18.5 SC @ 150ml/Ha and Indoxacarb 14.5 SC @ 500ml/Ha respectively.
- To control the stem and fruit borer in brinjal, spraying of Emamectin benzoate 5SG @ 200g/Ha, Cypermethrin 25EC @200ml/Ha, Lambda cyhalothrin 5CS @ 300ml/Ha should be done and fruit should be used after 5 days of last spraying of chaemicals.
- To control dansi makkhi in mango orchard, pheromone trap made up of wood should be should be placed on tree (10 trap/ha) and pheromone trap should be changed in 2 months.
- To control the internal necrosis or koyaliya, 0.8-1.0 % (10g/liter) borax should be sprayed.
- Necessary irrigation should be applied to maintain the proper moisture condition in the orchard.

**Animal Husbandry:**

- In the summer season, time to time spraying of melathiyam or other insecticide should be done in the drains near the animal shed.
- 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.
- When animal is affected by sun stroke then contact the veterinarian immediately for their remedy.
- Neat, fresh and cold water should be given to the animals three times in a day. Availability of sufficient moisture in the body of animals maintains the balance between the temperature of their skin and environment which save the animals from the effect of loo (summer wind).
- To save the animals from high temperature, balanced diet should be given to them. Green fodder mixed with dry fodder and grain must be given to the animals.
- Buffalo should be kept in the animal shed from 9 AM to 6 PM, to save them from sun.

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