

# 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 |            |            |            |            |
|----------------------------|-------------------|------------|------------|------------|------------|
|                            | 11/11/2017        | 12/11/2017 | 13/11/2017 | 14/11/2017 | 15/11/2017 |
| Rainfall (mm)              | 0                 | 0          | 0          | 0          | 0          |
| Max Temp ( <sup>0</sup> C) | 28                | 28         | 28         | 27         | 27         |
| Min Temp ( <sup>0</sup> C) | 11                | 11         | 12         | 12         | 12         |
| Cloud Cover                | P-Cloudy          | Clear      | P-Cloudy   | Cloudy     | Cloudy     |
| Max RH I (%)               | 85                | 80         | 80         | 80         | 80         |
| Min RH II (%)              | 45                | 40         | 45         | 45         | 50         |
| Wind speed (km/h)          | 008               | 010        | 008        | 004        | 006        |
| Wind direction             | NW                | NW         | NW         | SE         | SE         |

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 (3– 9 November, 2017) are as follows:

| Weather Parameter          | Udham Singh Nagar |            |            |            |            |            |            |
|----------------------------|-------------------|------------|------------|------------|------------|------------|------------|
|                            | 03/11/2017        | 04/11/2017 | 05/11/2017 | 06/11/2017 | 07/11/2017 | 08/11/2017 | 09/11/2017 |
| Rainfall (mm)              | 0.0               | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| Max Temp ( <sup>0</sup> C) | 27.5              | 28.6       | 30.0       | 30.5       | 27.3       | 27.5       | 28.0       |
| Min Temp ( <sup>0</sup> C) | 14.9              | 13.9       | 12.9       | 13.0       | 13.4       | 12.8       | 12.9       |
| CC I                       | Cloudy            | Clear      | Clear      | Cloudy     | Cloudy     | Obscured   | Clear      |
| CC II                      | Cloudy            | Clear      | Clear      | P-Cloudy   | Obscured   | Cloudy     | P-Cloudy   |
| Max RH I (%)               | 91                | 93         | 93         | 93         | 93         | 93         | 95         |
| Min RH II (%)              | 57                | 51         | 43         | 53         | 65         | 60         | 51         |
| Wind speed (km/h)          | 1.5               | 1.0        | 1.0        | 1.8        | 1.0        | 1.1        | 1.3        |
| Wind direction I           | Calm              | Calm       | Calm       | Calm       | Calm       | Calm       | Calm       |
| Wind Direction II          | WNW               | NE         | WNW        | WNW        | ESE        | ENE        | ENE        |

## Weather Based Agro-Advisories

### Crop Management:

- Late sowing variety of Rai and mustard can also be sown in the month of November. Vardan and Ashirwad variety should be selected for sowing. Plant to plant distance should be kept at 15 cm through thinning after 15 days of germination.
- Light irrigation should be given to rai, late sown toria and yellow mustard before flowering.
- In case of incidence of mahu in toria, yellow mustard and rai crop, 1liter Methyl-O-Demeton 25EC by dissolving in 800 liter of water should be sprayed. Spraying should be done after 2PM so that honey bee should be less affected.
- In irrigated condition, pulse crop like gram, lentil and pea can be sown in this month. Since normal sowing of lentil and pea is in the first fortnight of November.
- Lentil varieties like Pant Masoor-8, Pant Masoor-7, Pant Masoor-6, DPL-7 etc should be sown with the seed rate 30-40 Kg/Ha and line to line distance should be 25 cm.
- Dwarf variety of Pea like Aparna, Maviya matar-15, DDR-23, Pant matar-13,14,25,74 and normal pea variety like Pant matar-42 should be selected for sowing. Seed rate for dwarf and normal pea variety should be 125Kg/Ha and 80-100Kg/Ha respectively. Line to line distance for normal pea varieties should be kept at 30cm and for dwarf pea varieties 20-25cm.
- Sowing of Barseem should be started and Barseem variety- UPB-110, Maskavi, Pusa jayant, Vardaan should be selected for sowing with the seed rate 25-30kg/Ha.
- Seed treatment should be done before sowing.
- Seeds of wheat should be treated by Carboxin @ 2g/kg seeds or Tebuconazole @ 1.5g/kg seeds.
- Seeds of Pulse crop should be treated with 2g Thyrum + 1g Carbendazim / Kg of seed and oilseed crops should be treated with Metalaxyl @ 6 g/Kg seed.

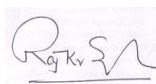
### Horticultural Management:

- On the occurrence of brown spot disease in the leaves of brinjal and tomato crop, solution of mancozeb @ 2g/lit of water should be sprayed.
- On the shrinkage or getting piebald of upper leaves of chilly and tomato, infected plants should be removed and destroyed. To control the disease carried insects any sarvangi insecticide should be sprayed.
- To control the leaf spot disease in cole crops, solution of mancozeb @ 2.5 g/liter of water should be sprayed.
- Early and mid variety of Cauliflower should be irrigated and weeding operation should be done. Matured cauliflower should be sent to the market after harvesting.
- To save the brinjal crop from juice sucking insect, Melathiyani 0.1% should be sprayed after picking up the fruits.
- On the occurrence of fruit and shoot borer in the Brinjal crop, before fruiting stage Chlorantraniliprole 3.5 HC @ 200ml /Ha and in the fruiting stage Cypermethrin 25 EC @ 200ml/Ha should be sprayed.
- On the occurrence of fruit borer in the Tomato, Chlorantraniliprole 18.5 SC @ 150ml/Ha or Indoxacarb 14.5 SC @ 500ml/Ha should be used.
- On the attack of White fly in tomato, Cyantraniliprole 10.26 OD @ 900ml/Ha or Thiamethoxam 25 WSG @ 200g/Ha should be applied.
- No insecticide should be used more than once.
- If gum are releasing from the stem of the tree then copper oxichloride and slaked lime should be apply in the infected areas of main stem.

- On the occurrence of anthracnose on the leaves of mango, copper oxichloride @ 2g/liter should be sprayed.
- Clearing and ploughing of orchard should be done at the earliest.
- If stem canker or kai kawak are sown in the stem of mango tree then copper oxichloride or beedo mixer should be sprayed.
- On the occurrence of web insect, cleaning of web should be done by using web machine and Quinalphos @ 2ml/liter should be sprayed.

### **Animal Husbandry:**

- After monsoon, various kinds of internal parasite are generated in the food canal. So, firstly Anthelmintic should be given to the animals.
- Vaccination of FMD (Foot and Mouth Disease) should be given to the animals.
- Foot and Mouth Disease is identified by red eyes, high fever, less productivity and food taken capacity, Mouth ulcers, wound in foot due to delay in the treatment of animals. Infected animals should be separated from healthy animals.
- Keeping in mind the probable high rate of Cattle's delivery in this month, especially in Buffalo, animal shed should be well neat, clean, dry and ventilated. For this, dry Lime should be sprayed in the nearby places.
- In case of new born, placenta should be cut with new blade and tie a knot in that. Don't forget to apply Betadine or Tincher on the cut.
- Toxocara vitulorum (patera) are found in the food tube of buffalo calf in the age of 1-4month. More than 50% buffalo calf should be died because of delay in treatment. Piperazine should be given to the infected calf on identification of Patera disease.
- To save the buffalo calf from patera disease, 10-15 CC Neem oil should be given to the calf immediately after 10 days of his birth. Again after 10 days, 10-15 CC Neem oil should be given. Chenopodium album oil can also be given as a fodder to animals to save the calf/animals from patera disease.
- It is advised that green fodder can be given to the animals by mixing it in dry fodder otherwise animal may be infected by Timpeti disease which causes death of animals.
- There is a chance of Aflatoxicosis disease in Poultry due to occurrence of fungus in the food which causes to death of poultry birds. So, medicine should be administered to the poultry birds only on the advice of veterinarian.



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