

# 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				
	12/11/2016	13/11/2016	14/11/2016	15/11/2016	16/11/2016
Rainfall (mm)	0	0	0	0	0
Max Temp ( $^{\circ}$ C)	29	29	28	28	27
Min Temp ( $^{\circ}$ C)	11	12	12	11	11
Cloud Cover	Clear	Cloudy	Cloudy	Clear	Clear
Max RH I (%)	80	85	85	80	80
Min RH II (%)	45	45	45	40	40
Wind speed (km/h)	04	04	04	06	04
Wind direction	SE	SE	SE	NW	NW

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 (4-10 November, 2016) are as follows:

Weather Parameter	Udham Singh Nagar						
	04/11/2016	05/11/2016	06/11/2016	07/11/2016	08/11/2016	09/11/2016	10/11/2016
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ( $^{\circ}$ C)	31.5	29.4	29.0	29.2	28.5	28.0	29.0
Min Temp ( $^{\circ}$ C)	12.9	12.8	12.4	9.9	9.4	11.2	11.4
CC I	Clear	Clear	Clear	Clear	Clear	Clear	Clear
CC II	Clear	Clear	Clear	Clear	Clear	Clear	P-Cloudy
Max RH I (%)	89	87	91	90	92	90	91
Min RH II (%)	41	37	35	38	36	34	36
Wind speed (km/h)	1.7	1.7	1.5	2.3	3.9	3.5	3.3
Wind direction I	Calm	Calm	Calm	Calm	Calm	Calm	Calm
Wind Direction II	WNW	WSW	WNW	ENE	ESE	ENE	ESE

## Weather Based Agro-Advisories

### Crop Management:

- Seed treatment should be done before sowing of rabi crops.
- 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.
- Check the quantity of brix in the juice of ratoon sugarcane crop. When quantity of brix reaches up to 18%, then cutting of sugarcane should be done and send them to the mill. Immediately after the harvesting of sugarcane, field should be prepared for rabi crops.
- Weeding and hoeing should be done after 25-30 days of sowing of winter season sugarcane crop. After 30-40 days of sowing, irrigation should be given as per requirement of the crop.
- On the occurrence of white Gerui and Tulasita disease in toria, yellow mustard and rai crop, 2.0 Kg mancozeb or Ridomil MZ in 800 liter of water per hectare should be sprayed.
- 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.

### **Horticultural Management:**

- Sowing of pea must be completed in the second week of this month, if not sown earlier, for this seeds @ 80-90 Kg/ha is required. 25 Kg Nitrogen, 70 Kg Phosphors and 50 Kg Potash should be applied in the field before seed sowing and seed sowing should be done at 30 cm distance in the lines.
- On the occurrence of rounded spot in the leaves of Cabbage class crops (Cole crops), Mencozeb @ 2g/liter of water should be sprayed.
- For proper management of leaf spot disease in the brinjal crop, affected lower leaves should be destroyed and the solution of Mencozeb @ 2g/liter should be sprayed.
- To save the brinjal crop from juice sucking insect, Melathian 0.1% should be sprayed after picking up the fruits.
- To save the Pea crop from stem fly, Carbofuran 3 CG @ 25Kg/Ha should be applied in the field with manure and seed at the time of sowing the seed.
- 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.
- Dung manure should be applied in the fruit trees @ 40-50 kg/tree.
- To apply compost and fertilizer in the tree, before application of fertilizer, basin should be prepared.
- On the occurrence of termite, Imidacloprid @ 1ml/liter or Chlorpyrifos @ 4ml/liter should be use in the basin of the stem of fruit trees.
- Proper irrigation should be given in the Orchard.

### **Animal Husbandry:**

- With the changing weather, there is a high chance of Niomoniasis in new born babies of animals. So, it is advised that animal shed should be protected from cold and hot food should be given to the animals.
- Vaccination of FMD (Foot and Mouth Disease) should be given to the 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.
- 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, 10-15Cc 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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