

## ग्रामोभ्युदयादेव देशोभ्युदयः

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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 district are as follows:

Parameter	Udham Singh Nagar				
	14/11/2018	15/11/2018	16/11/2018	17/11/2018	18/11/2018
Rainfall (mm)	0	0	0	0	0
Max Temp ( <sup>0</sup> C)	27	27	26	26	25
Min Temp ( <sup>0</sup> C)	12	11	11	10	10
Cloud Cover	Cloudy	Cloudy	P-Cloudy	P-Cloudy	P-Cloudy
Max RH I (%)	85	90	85	80	80
Min RH II (%)	45	45	45	40	40
Wind speed (km/h)	004	004	006	008	008
Wind direction	NW	ESE	NW	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 (6 – 12 Nov, 2018) are as follows:

Weather Parameter	Udham Singh Nagar						
	06/11/2018	07/11/2018	08/11/2018	09/11/2018	10/11/2018	11/11/2018	12/11/2018
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ( <sup>0</sup> C)	28.6	26.9	25.5	27.0	27.7	28.0	27.0
Min Temp ( <sup>0</sup> C)	11.9	10.9	11.6	11.9	12.0	11.4	11.1
CC I	0	0	0	0	0	0	0
CC II	0	0	0	0	0	0	0
Max RH I (%)	93	93	95	93	95	93	95
Min RH II (%)	54	61	62	47	49	52	57
Wind speed (km/h)	2.1	4.4	3.3	2.9	2.1	2.2	2.1
Wind direction I	Calm	Calm	Calm	Calm	Calm	Calm	Calm
Wind Direction II	WNW	ESE	SSE	WNW	ENE	WNW	ESE

## Weather Based Agro-Advisories

### Crop Management:

- In irrigated condition, normal sowing of gram should be completed in the second fortnight of November.
- Gram varieties like- Pusa 256, K-850, Avrodhi, Pant G-186, Pant Kabuli Chana-1 etc should be sown in the irrigated condition at a depth of 6-8cm and line to line distance should be 45cm. Before sowing, seed should be purified in the mixture of 1g Carbendazim and 2 g Thyram. After that it should be treated with Rhizobium culture and Phosphorus solubilizing culture. Seed rate for small and mid grain variety and coarse grain variety should be 60-80Kg/ha and 80-100Kg/ha respectively. 15-20 Kg nitrogen, 40-50 Kg Phosphorus and 20-30 Kg Potash should be applied in the field before sowing.
- 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.

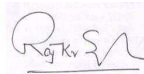
### Horticultural Management:

- Weeding and hoeing should be done in the carrot, radish and turnip crops.
- Pea can also be sown till second week of this month with the seed rate of 80-90 kg/ha.
- 25 kg of nitrogen, 70 kg phosphorous and 50 kg potash is needed for pea crop which should be mixed properly in the field before sowing.
- If the seedlings of late variety of cauliflower are ready then its transplanting should be done in this month. 150 kg of N, 80 kg of P and 60 kg of K are recommended for transplanting, from which half dose of nitrogen, full dose of phosphorous & potash should be used at the time of final ploughing of the field.
- 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.
- On the occurrence of web insect, cleaning of web should be done by using web machine and Quinalphos @ 2ml/liter should be sprayed.
- If stem canker or kai kawak are sown in the stem of mango tree then copper oxichloride or beedo mixer should be sprayed.
- Clearing and ploughing of orchard should be done at the earliest.

### Animal Husbandry:

- 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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