

## 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				
	01/12/2018	02/12/2018	03/12/2018	04/12/2018	05/12/2018
Rainfall (mm)	0	0	0	0	0
Max Temp ( <sup>0</sup> C)	25	25	24	24	24
Min Temp ( <sup>0</sup> C)	08	08	07	07	07
Cloud Cover	P-Cloudy	P-Cloudy	Clear	P-Cloudy	P-Cloudy
Max RH I (%)	85	85	80	80	80
Min RH II (%)	45	40	40	40	40
Wind speed (km/h)	006	006	004	004	004
Wind direction	NW	NW	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 (23 – 29 Nov, 2018) are as follows:

Weather Parameter	Udham Singh Nagar						
	23/11/2018	24/11/2018	25/11/2018	26/11/2018	27/11/2018	28/11/2018	29/11/2018
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ( <sup>0</sup> C)	26.5	26.0	25.5	28.0	27.5	27.6	25.5
Min Temp ( <sup>0</sup> C)	9.4	8.9	10.8	10.4	11.8	12.7	9.9
CC I	4	4	4	4	4	4	4
CC II	0	0	0	0	0	0	0
Max RH I (%)	95	95	93	95	93	95	92
Min RH II (%)	46	46	55	55	56	67	60
Wind speed (km/h)	2.1	2.3	1.7	1.1	2.1	1.6	2.2
Wind direction I	Calm	Calm	N	Calm	N	Calm	Calm
Wind Direction II	WSW	WNW	WSW	WNW	WNW	WNW	WNW

## Weather Based Agro-Advisories

### Crop Management:

- In timely sown wheat, first irrigation should be given after 20-25 days of sowing. After 3-4 days of first irrigation, remaining dose of Nitrogen should be applied as top dressing in the afternoon.
- To control the weed in the wheat, first and second weeding and hoeing should be done after 25-30 days and 45-50 days of sowing respectively.
- In irrigated condition, late sowing of gram should be completed in the first week of December. Pusa-372 and PG 186 should be selected and sow at the depth of 6-8cm in the lines at a distance of 20-25cm.
- Weeding and hoeing is necessary two times in the timely sown gram crop. First weeding and hoeing should be done after 25-30 days of sowing and second 45-50 days after sowing and after first irrigation.
- Sowing of lentil should be completed up to 15<sup>th</sup> of December and weeding and hoeing should be done after 25-30 days of sowing.
- Harvesting of Arhar should be done.
- 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.

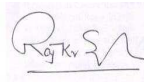
### Horticultural Management:

- To save the newly transplanted seedlings of Papaya, Mango and Litchi from frost, dry straw should be collected so that these plants should be covered by straw from 15<sup>th</sup> December onwards.
- To control the Mango mealy bug in mango, polythene strips should be used so that plants can be protected from these insects. For this, stem of plants should be covered by 25-30 cm broad polythene and above 30-40 cm from the ground. After covering the stem, grease and unusable oil should be applied in the upper and lower part of polythene and both the end of polythene should be tied with the help of chord/string.
- Light irrigation should be given in the cauliflower.
- Harvesting of cauliflower should be done and it sends to the market.
- Radish can be sown throughout the year. Seed rate for European and Asian variety of Radish should be 6-8Kg/ha and 10-12 kg/Ha respectively.
- Dung manure should be applied in the field before sowing the seed of radish. Fertilizer should be used on the basis of soil testing and distance of line of sowing should be 20-25cm. On the germination of seed plant to plant distance should be maintained at a distance of 8-10 cm.
- Weeding and hoeing should be done in the garlic crop.
- 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.

### Animal Husbandry:

- To save the animal from cold, dry grasses, paddy residue (Puwal) etc which are not used as fodder for animals should be used as a bedding material for animals in sheds. Door and window should be covered properly so that cold wind could not be entered in the animal shed. Sitting place of animals should be leveled.

- To save the animal from cold, increase the amount of oil and Jaggery (Gur) in the food of animals. Caraway (Ajwain) and gur also be given to the animals.
- In hilly areas, heater may be used to protect the animals from cold. Rice husk should be given to the animals as a food which is the source of energy.
- Maintain the temperature of dwelling place of poultry birds.
- With the changing weather, there is a high chance of Niomonina 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.
- 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.



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