

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 and plain area of Nainital districts are as follows:

Parameter	Udham Singh Nagar				
	03/12/2016	04/12/2016	05/12/2016	06/12/2016	07/12/2016
Rainfall (mm)	0	0	0	0	0
Max Temp (^o C)	26	26	25	25	25
Min Temp (^o C)	09	09	08	08	08
Cloud Cover	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	90	85	90	90	90
Min RH II (%)	50	50	45	55	55
Wind speed (km/h)	08	08	08	06	06
Wind direction	WNW	WNW	NW	NNW	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 (25 November-01 December, 2016) are as follows:

Weather Parameter	Udham Singh Nagar						
	25/11/2016	26/11/2016	27/11/2016	28/11/2016	29/11/2016	30/11/2016	01/12/2016
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp (^o C)	27.0	25.5	25.0	25.6	24.5	27.5	27.8
Min Temp (^o C)	9.0	9.9	11.8	12.0	11.4	12.3	11.4
CC I	Clear	Clear	Clear	Obscured	Clear	Clear	Clear
CC II	Clear	P-Cloudy	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	92	86	94	96	93	93	93
Min RH II (%)	33	58	57	57	47	45	42
Wind speed (km/h)	2.5	2.1	4.2	2.0	4.6	2.1	1.6
Wind direction I	Calm	ESE	Calm	ESE	Calm	Calm	Calm
Wind Direction II	WNW	ESE	ESE	ESE	SSW	SSW	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 15th 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 15th 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.
- If fertilizer is not applied yet, then recommended dose of fertilizer should be applied in fruit trees.
- Recommended dose of phosphatic and potassic fertilizer should be used in the basin at a distance of 2 meter from main stem.
- With main nutrients, micronutrients as 250 g Borex, Zink Sulphate and Copper Sulphate should also be applied in 10year fruit trees.
- Light irrigation should be given in the cauliflower.
- Harvesting of cauliflower should be done and it sends to the market.
- If transplanting of late season variety of cauliflower didn't completed yet, then it should be completed by this week. 60Kg Nitrogen, 60Kg Potash, 60 Kg Phosphorous /Ha should be applied in the field before transplanting.
- 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.
- To save the chilly from Thrips, Lambda cyhalothrin 5EC @300ml/Ha or Fipronil 5SC @ 1Liter/Ha should be sprayed.
- To control the Mite in chilly, diafenthuron 50WP @ 600g/Ha or Lambda cyhalothrin 5EC @ 300ml/Ha should be sprayed.
- In onion crop, to control the Thrips Lambda cyhalothrin 5EC @ 300ml/Ha and to control Purpil Blotch difenoconazole 25 EC @ 0.1% or Kitazin 48EC @ 0.2% should be sprayed.
- Sowing of Coriander should be done. If moisture is not available in the field then pre-irrigation should be given.
- On the occurrence of brown spot in the leaves of early sown variety of Potato, Mancozeb @2g/liter of water should be sprayed.

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.

- 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.
- Keeping in mind the probable high rate of Cattle's delivery, 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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