

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				
	10/12/2016	11/12/2016	12/12/2016	13/12/2016	14/12/2016
Rainfall (mm)	0	0	0	0	0
Max Temp ($^{\circ}$ C)	24	24	25	24	25
Min Temp ($^{\circ}$ C)	12	11	09	08	08
Cloud Cover	Clear	Clear	P-Cloudy	P-Cloudy	P-Cloudy
Max RH I (%)	90	90	90	90	90
Min RH II (%)	50	45	50	50	50
Wind speed (km/h)	04	06	10	12	14
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 (02-08 December, 2016) are as follows:

Weather Parameter	Udham Singh Nagar						
	02/12/2016	03/12/2016	04/12/2016	05/12/2016	06/12/2016	07/12/2016	08/12/2016
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ($^{\circ}$ C)	27.0	26.5	24.5	25.0	20.6	23.0	22.4
Min Temp ($^{\circ}$ C)	10.5	9.9	9.3	12.7	14.1	11.4	10.2
CC I	Cloudy	Clear	Clear	Obscured	Clear	Obscured	Overcast
CC II	Cloudy	Clear	Clear	Clear	Clear	Clear	Overcast
Max RH I (%)	93	95	95	95	93	95	97
Min RH II (%)	42	54	52	67	57	55	57
Wind speed (km/h)	1.6	2.3	1.2	2.4	5.7	3.4	2.3
Wind direction I	N	Calm	Calm	ESE	ESE	N	ESE
Wind Direction II	WNW	SSW	ESE	ESE	ESE	WSW	WSW

Weather Based Agro-Advisories

Crop Management:

- Seed treatment should be done before sowing of wheat crops.
- Seeds of wheat should be treated by Carboxin @ 2g/kg seeds or Tebuconazole @ 1.5g/kg seeds.

- On the occurrence of Mahu in Mustard crop, spraying of 1liter of Methyl-O-Demeton 25 EC in 800-1000 liter of water should be done. Spraying should be done after 02:00 PM.
- 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.
- 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.

Horticultural Management:

- In case of frost, irrigation should be applied in newly transplanted plants.
- 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.
- 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.
- To save the pea crop from powdery mildew and Rust disease, 0.25 % solution of Dithane 45 should be sprayed.
- 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 animals from cold, proper arrangement of animal shed should be done. Vaccination should be given to the animals to save them from Rinderpest disease (Sheetla rog).
- 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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