

# 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				
	08/02/2016	09/02/2017	10/02/2017	11/02/2017	12/02/2017
Rainfall (mm)	0	0	0	0	0
Max Temp ( <sup>o</sup> C)	24	23	24	24	25
Min Temp ( <sup>o</sup> C)	09	09	09	08	08
Cloud Cover	P-Cloudy	Cloudy	P-Cloudy	P-Cloudy	P-Cloudy
Max RH I (%)	85	85	85	85	85
Min RH II (%)	45	45	45	45	40
Wind speed (km/h)	10	08	08	10	10
Wind direction	NW	WSW	WNW	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 (31 Jan-06 Feb, 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	31/01/2017	01/02/2017	02/02/2017	03/02/2017	04/02/2017	05/02/2017	06/02/2017
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	Trace
Max Temp ( <sup>o</sup> C)	21.0	21.5	22.0	23.0	23.4	22.5	23.0
Min Temp ( <sup>o</sup> C)	10.3	7.4	8.4	7.7	10.5	11.3	11.9
CC I	Cloudy	Cloudy	Cloudy	Cloudy	P-Cloudy	P-Cloudy	Cloudy
CC II	Cloudy	Clear	Clear	Clear	P-Cloudy	Clear	Clear
Max RH I (%)	93	94	94	92	95	88	91
Min RH II (%)	60	57	49	57	57	66	49
Wind speed (km/h)	2.8	2.3	2.5	1.5	2.1	3.2	5.0
Wind direction I	WNW	Calm	Calm	Calm	Calm	SSE	WNW
Wind Direction II	WSW	WSW	ESE	WSW	SSE	S	WSW

## Weather Based Agro-Advisories

### Crop Management:

- Harvesting of intercrops sown with winter season sugarcane crop should be done after that 1/3 Nitrogen should be given as top dressing and necessary irrigation should be applied.

- To control the leaf blight disease in the mustard crop, solution of Mencozeb @ 2.5 g/liter of water should be sprayed.
- To control the fruit borer in gram crop, solution of 125 ml of Chlorantraniliprole 18.5 SC or 220 g of Emamectin benzoate 5SG or 750 ml of Novaluron 10 EC or 500 ml of Lembdacyhalothrin 5EC in 500 liter of water should be sprayed @ per hectare.
- On the occurrence of Mahu insect in the wheat crop, Thyomethakzam 25WSG @50g/Ha or Quinolphos 25 EC @ 1liter/Ha should be sprayed.
- On the occurrence of yellow ratva disease in wheat crop, solution of Propiconazole 25EC @ 1ml/liter of water should be sprayed.
- If there is highly occurrence of broad leaf weed in the wheat crop, then solution of 500g AI of 2,4D or 4g of metsulfuron methyl or 20g of carfentrazone in 500-600 liter of water should be sprayed @ per hectare with the help of flat fan nozzle after 34-40 days in November sown wheat crop and after 40-45 days in December sown wheat crop.
- On the highly occurrence of narrow leaf weed in the wheat crop, Pinoxaden @ 40-45g/Ha or Sulfosulfuron @ 25g/ha or Clodinafop 60g/Ha or Finoxaprop Ethyl @ 100-120g/Ha should be sprayed after 30-35 days of sowing of wheat crop.
- If there is a mixed occurrence of broad and narrow leaf weed, then Sulfosulfuron + Metsulfuron (30+2) @ 32g/500-600 liter of water should be sprayed within 25-30days of sowing.
- On the occurrence of Mahu in the mustard crop, Thiamethoxam 25 WSG @ 50-100g/Ha should be sprayed and its waiting period is 21 days.

### **Horticultural Management:**

- To save the tomato from frost light irrigation should be given.
- Field preparation should be done for sowing bottle gourd (lauki), bitter gourd (Karela), ridged gourd (Torai) and pumpkin (Kashiphal) crop.
- If the upper part of the Garlic leaf turns yellow then to control it, solution of Difenconazole @ 1ml/liter should be sprayed.
- Compost should be used as nutrients for Cucumber class crop.
- To control the purple spot disease in the Garlic crop, Diathenam 45 should be sprayed. Sendovit or soap powder should be mixed with Diethenam 45.
- Imidacloprid or Metasystox should be used to control the Thrips or maahu in Garlic crop.
- To control the late blight disease in tomato, Mancozeb 75% WP @ 2.5g/liter should be sprayed.
- To control the Ratva disease in Pea crop, Mancozeb 75% @ 2.5g/liter or Propiconazol @ 1ml/Liter should be sprayed.
- On the occurrence of fruit borer in the Tomato, fruit should be used only after 3 days and 5 days of spraying of Chlorantraniliprole 18.5 SC @ 150ml/Ha and Indoxacarb 14.5 SC @ 500ml/Ha respectively.
- On the attack of White fly in tomato, Cyantraniliprole 10.26 OD @ 900ml/Ha or Thiamethoxam 25 WSG @ 200g/Ha should be applied and fruit should be used after 5days of spraying.
- 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 and fruit should be used after 5 days of last spraying of chemicals.
- To save the chilly from Thrips, Lambda cyhalothrin 5EC @300ml/Ha or Fipronil 5SC @ 1Liter/Ha should be sprayed and chilly is used after 7 days of spraying of chemicals.
- To control the Mite in chilly, diafenthuron 50WP @ 600g/Ha or Lambda cyhalothrin 5EC @ 300ml/Ha should be sprayed and in this case fruit may be used after 5 days of spraying.
- 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. Onion crop should be used after 5 and 20 days of spraying of cyhalothrin 5EC for thrips & difenoconazole 25 EC for Purpil Blotch respectively.

- To control the mango hopper (Bhunga) insect in fruit trees, first spray should be given at panicle initiation with Imidacloprid 17.8SL @ 0.03 ml/lit. Second spray at pea stage with thiamethoxam @0.32 g/lit and third spray need based at 21 days after second spray with NSKE 5% @ 5ml/lit.
- New orchard should be irrigated.
- Irrigation should be given to the small fruit plants to save them from frost but big plant should not be irrigated.

### **Animal Husbandry:**

- Maintain the temperature of dwelling place of poultry birds. To save the poultry bird from cold, thickness of bedding material should be increases so that they can get sufficient heat to maintain their temperature.
- To save the animals from cold, proper arrangement of animal shed should be done. 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 so that their productive capacity is not affected and special care should be given to the new born animals.
- 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.
- 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.

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