

# ग्रामोभ्युदयादेव देशोभ्युदयः

Govind Ballabh Pant University of Agriculture and Technology

Department of Agrometeorology

College of Agriculture

Pantnagar-263145, Uttarakhand

Phone No. 05944 - 233 032



## Gramin Krishi Mausam Sewa Bulletin, District - Udham Singh Nagar

Year: 26 Issue No.: 17 Bulletin Period: 1 March – 5 March, 2017 Day: Tuesday Dated: 28-02-2017

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				
	01/03/2016	02/03/2017	03/03/2017	04/03/2017	05/03/2017
Rainfall (mm)	0	3	3	0	0
Max Temp ( $^{\circ}$ C)	27	27	26	26	27
Min Temp ( $^{\circ}$ C)	08	10	11	08	08
Cloud Cover	Partly Cloudy	Dense Cloud	Dense Cloud	Partly Cloudy	Clear
Max RH I (%)	85	90	90	85	85
Min RH II (%)	45	50	50	45	40
Wind speed (km/h)	010	008	012	008	008
Wind direction	NW	NW	E	E	NE

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 (21-27 Feb 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	21/02/2017	22/02/2017	23/02/2017	24/02/2017	25/02/2017	26/02/2017	27/02/2017
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ( $^{\circ}$ C)	29.5	26.8	26.5	25.0	24.6	25.5	25.0
Min Temp ( $^{\circ}$ C)	14.9	11.1	8.3	6.6	7.2	7.4	8.4
CC I	Clear	Clear	Clear	Cloudy	Clear	Clear	Clear
CC II	Dense Cloud	Clear	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	89	95	92	91	91	91	92
Min RH II (%)	50	43	39	37	47	44	46
Wind speed (km/h)	3.7	3.9	8.1	9.9	7.9	3.6	4.6
Wind direction I	WNW	Calm	WNW	WNW	WNW	Calm	Calm
Wind Direction II	WSW	WNW	WSW	WNW	WNW	WSW	ESE

## Weather Based Agro-Advisories

### Crop Management:

- Sowing of Urd crop should be completed from last week of February to first fortnight of March. Improved varieties of Urd like Narendra Urd-1, Pant Urd 31, Pant Urd 35 should be used.
- Gram crop should be irrigated (light) before flowering. Don't irrigate at flowering otherwise production would be decreased.
- Foliar spray of 2% Urea should be done at flowering stage of gram and lentil crop and second spray should be given after 10-15 days of first one.
- On the occurrence of Mahu, thiamethoxam 25 WSG @ 100ml/ha or Methyl-O-demeton 25 EC @ 1liter/ha in 800 liter of water should be sprayed.
- At the time of flowering, boxes of bee @ 2-3 box/Ha should be kept for 1 month so that pollination should be increases up to 10-15%.
- Sunflower varieties like Mordan, Surya should be sown in second fortnight of February.
- Sankul variety of maize like Naveen, Shweta, Navjot, Kanchan, Surya, Gaurav, Sweet corn: Madhuri and hybrid maize variety Ganga-11 should be sown in second fortnight of February.
- On the occurrence of yellow gerui in wheat crop, Propiconazole 25 EC (or tilt) @ 500ml/Ha in 500 liter of water should be sprayed.
- 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.
- 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:

- If Mango mealy bug were seen in the mango trees then cut and separate it from the tree and put it under the soil in the pit.
- Last year Gumba baur or Mango malformation and leaves which are highly affected by powdery mildew should be destroyed by plucking.
- Polythene strips used to save mango from Mango mealy bug (or kri keet or Gujiya) should be clean with the help of clean cloth.
- On the occurrence of powdery mildew in mango, first spray of 0.2% wettable sulfur (2g/liter) should be done.
- 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.
- If the upper part of the Garlic leaf turns yellow then to control it, solution of Difenconazole @ 1ml/liter should be sprayed.
- To control the late blight disease in tomato, Mancozeb 75% WP @ 2.5g/liter should be sprayed.
- To control the Ratva and Chudil 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 5 days 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 Purple 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 Purple Blotch respectively.

### **Animal Husbandry:**

- Maintain the temperature of dwelling place of poultry birds. To save the poultry bird from cold, thickness of bedding material should be increased 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 1-4 month. 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.

**Dr. R K Singh**  
**Professor & Nodal Officer-GKMS**  
**AMFU- Pantnagar**