

# ग्रामोभ्युदयादेव देशोभ्युदयः

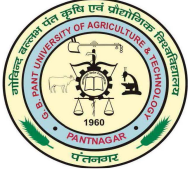
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## Gramin Krishi Mausam Sewa Bulletin, District - Udham Singh Nagar

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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				
	23/01/2019	24/01/2019	25/01/2019	26/01/2019	27/01/2019
Rainfall (mm)	25	5	0	2	0
Max Temp ( $^{\circ}$ C)	21	21	22	21	21
Min Temp ( $^{\circ}$ C)	12	8	7	8	8
Cloud Cover	Dense Cloud	Dense Cloud	P-Cloudy	Dense Cloud	Cloudy
Max RH I (%)	95	90	85	90	90
Min RH II (%)	55	50	45	50	50
Wind speed (km/h)	012	006	006	006	006
Wind direction	ESE	ESE	NE	NE	ENE

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 (15-21 January 2019) are as follows:

Weather Parameter	Udham Singh Nagar						
	15/1/2019	16/1/2019	17/1/2019	18/1/2019	19/1/2019	20/1/2019	21/1/2019
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ( $^{\circ}$ C)	21.0	18.5	20.5	22.5	23.5	22.6	23.5
Min Temp ( $^{\circ}$ C)	3.9	5.4	5.3	4.9	5.1	6.9	8.1
CC I	3	0	0	0	0	0	6
CC II	5	5	0	0	0	5	8
Max RH I (%)	90	97	91	94	94	94	91
Min RH II (%)	57	52	43	38	63	56	62
Wind speed (km/h)	NR	NR	NR	1.6	2.0	0.5	0.6
Wind direction I	WNW	Calm	Calm	Calm	Calm	Calm	ENE
Wind Direction II	WSW	ESE	WSW	WSW	WNW	SSE	ESE

## Weather Based Agro-Advisories

### Crop Management:

- Solution of 2 % Urea should be given at the time of flowering in gram and lentil. Second irrigation should be given after 10-15 days of first irrigation. 600-700 liter of water/ Ha should be used.
- On the occurrence of yellow rust (ratua) disease in wheat crop, solution of Propiconazole 25 EC @ 1 lit/ha should be sprayed.
- Harvesting of toria crop should be done when 75% pods of toria are turned golden in colour.
- 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.
- Spraying of Finoxaprop, Clodinafop with 2, 4-D or Metsulfuron Methyl cannot be taken simultaneously. There should be a difference of one week between the spraying of these chemicals.
- It is advised that wheat crop should not be sown in the month of January because wheat sowing during this period causes the yield reduction of 60-65Kg/Ha/day and hot wind during ripening stage of crop causes thinning of wheat grain.
- Early sowing of Mentha should be started. Mentha varieties like- Koshi, Saksham, Kushal, Himalaya, Saryu, Sim kranti should be selected for early sowing.
- Mentha roots should be dipped in the solution of 2g Carbendazim/liter of water for 5min before sowing. After that root should be taken out from the solution and keep in the shed for half an hour, then after sowing should be done.
- 25-30 ton Farm Yard Manure (FYM) should be applied in the field before 10-15 days of sowing of Mentha crop. At the time of sowing 50Kg Nitrogen, 80 Kg Phosphorous, 60 Kg Potash and 20 Kg Zink Sulfate/ Ha should be used.
- To save standing naulakh sugarcane crop from frost, irrigation should be given based on the requirement.
- Harvesting of early naulakh sugarcane should not be done in the low temperature to avoid less sprouting for ratoon crop.

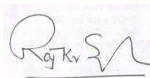
### Horticultural Management:

- 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.
- When lower leaves of pea are turning yellow and plants are drying, then roots of pea crop should be irrigated with the solution of carbendazim @ 1 g/ lit of water.
- 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.

- On the occurrence of white cotton like growth in the pods or stem of the pea, infected plants should be removed and destroyed. Solution of carbendazim @ 1g/lit should be sprayed.
- On the occurrence of yellow colour spot in the lower leaves of pea, mancozeb 2.5g/lit or 2.5 g mixture of cymoxanil 8 % + mancozeb 64% in 1 litre of water should be sprayed.
- If the upper part of leaves of onion and garlic are turning yellow, solution of propiconazole or tebuconazole @ 1 ml/lit of water should be sprayed.
- To control the late blight disease in potato and tomato, it is advised that solution of Mancozeb @ 2.5g/liter or copper oxichloride @ 3g/lit of water should be sprayed.
- On the occurrence of yellowish brown spot in tomato, mancozeb 2.5-3.0 g/lit of water should be sprayed.
- To control the leaf spot disease in cole crops, solution of mancozeb @ 2.5 g/liter of water should be sprayed.
- Top dressing of Urea should be done in Cabbage and Cauliflower crop after weeding and hoeing and moisture should be maintained in the field.

#### **Animal Husbandry:**

- With the changing weather, there is a high chance of Niomoniasis in new born animals. So, it is advisable that animal shed should be protected from cold and hot food should be given to the animals.
- 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.
- To save the animals from cold, proper arrangement of animal shed should be done.
- 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, 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.
- 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.



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