

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				
	2/02/2019	3/02/2019	4/02/2019	5/02/2019	6/02/2019
Rainfall (mm)	0	0	0	0	0
Max Temp ($^{\circ}$ C)	22	23	23	24	24
Min Temp ($^{\circ}$ C)	7	5	5	7	9
Cloud Cover	P-Cloudy	Clear	Clear	P-Cloudy	P-Cloudy
Max RH I (%)	85	85	85	85	85
Min RH II (%)	45	45	45	45	45
Wind speed (km/h)	008	006	008	008	008
Wind direction	ESE	NE	NNW	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 (25-31 January 2019) are as follows:

Weather Parameter	Udham Singh Nagar						
	25/1/2019	26/1/2019	27/1/2019	28/1/2019	29/1/2019	30/1/2019	31/1/2019
Rainfall (mm)	Trace	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ($^{\circ}$ C)	23.5	17.5	21.6	19.1	29.0	21.2	21.0
Min Temp ($^{\circ}$ C)	9.9	4.9	5.9	4.5	4.4	4.3	10.3
CC I	8	4	4	8	4	4	1
CC II	8	2	5	3	0	0	0
Max RH I (%)	85	91	94	91	94	94	95
Min RH II (%)	65	57	49	52	52	66	61
Wind speed (km/h)	2.6	1.7	4.0	2.0	1.4	1.3	1.2
Wind direction I	WNW	Calm	Calm	Calm	Calm	Calm	ESE
Wind Direction II	WNW	S	WNW	WSW	WNW	ESE	ESE

Weather Based Agro-Advisories

Crop Management:

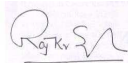
- To control the broad leaf weed in late sowing variety of wheat crop, sown in the second fortnight of December, 80% pure 2, 4-D @ 625 g/Ha in 800 liter of water should be sprayed with flat fan nozzle sprayer. If top dressing of Urea did not given then it should be completed before 2-3 days of spraying of weedicide.
- On the occurrence of yellow gerui in wheat crop, Propiconazole 25 EC (or tilt) @ 500ml/Ha in 500 liter of water should be sprayed.
- Harvesting of Naulakh sugarcane crop should not be done before 15th February.
- Sowing of Mentha can be done up to 15-20 February. Seedlings of progressive varieties like-Koshi, Saksham, Kushal, Himalaya, Sarayu and Sugandh can be obtained from Pantnagar unit. 400-500 Kg roots/Ha should be required. Roots should be cut in 5-7cm pieces with 3-4 knots in each piece. Then it should be treated with 2g Carbendazim/liter of water for 5 minutes. After treatment keep the pieces in the shed for half an hour and thereafter sowing should be done.
- On the occurrence of fruit borer in gram and lentil crop at the time of flowering, Melathiyam 50EC @ 2.0 liter/Ha or Quinalphos 25 EC @ 1.5 liter/Ha in 500-600 liter of water should be sprayed.
- 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.

Horticultural Management:

- On the occurrence of yellow rashes on the leaves of pea, solution of propiconazole @ 1ml/lit should be sprayed.
- 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.
- 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.
- To control the mango hopper (Bhunga) insect in fruit trees, first spray should be given at panicle initiation with Imidacloprid 17.8 SL @ 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 not be given to big plants of mango and leetchi because it creates difficulty in the flowering. But irrigation can be given in the new plants which are not in the flowering stage.
- 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.

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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