

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				
	26/11/2016	27/11/2016	28/11/2016	29/11/2016	30/11/2016
Rainfall (mm)	0	0	0	0	0
Max Temp ($^{\circ}$ C)	27	26	26	25	25
Min Temp ($^{\circ}$ C)	08	09	08	08	07
Cloud Cover	P-Cloudy	P-Cloudy	P-Cloudy	Clear	Clear
Max RH I (%)	85	85	80	85	85
Min RH II (%)	45	45	45	45	45
Wind speed (km/h)	06	06	04	04	02
Wind direction	NW	NW	SW	WNW	SSE

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 (18-24 November, 2016) are as follows:

Weather Parameter	Udham Singh Nagar						
	18/11/2016	19/11/2016	20/11/2016	21/11/2016	22/11/2016	23/11/2016	24/11/2016
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ($^{\circ}$ C)	26.1	25.5	26.5	27.2	27.0	26.5	26.6
Min Temp ($^{\circ}$ C)	10.3	9.9	10.1	10.3	9.4	9.5	10.4
CC I	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
CC II	Cloudy	Clear	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	92	90	92	93	95	95	97
Min RH II (%)	41	43	42	36	40	51	35
Wind speed (km/h)	2.1	2.1	1.5	1.3	3.2	1.7	3.3
Wind direction I	Calm	Calm	Calm	Calm	Calm	Calm	Calm
Wind Direction II	SSW	S	WSW	WNW	WNW	ESE	WNW

Weather Based Agro-Advisories

Crop Management:

- In irrigated condition, normal sowing of gram should be completed in the second fortnight of November.

- Gram varieties like- Pusa 256, K-850, Avrodhi, Pant G-186, Pant Kabuli Chana-1 etc should be sown in the irrigated condition at a depth of 6-8cm and line to line distance should be 45cm. Before sowing, seed should be purified in the mixture of 1g Carbendazim and 2 g Thyram. After that it should be treated with Rhizobium culture and Phosphorus solubilizing culture. Seed rate for small and mid grain variety and coarse grain variety should be 60-80Kg/ha and 80-100Kg/Ha respectively. 15-20 Kg nitrogen, 40-50 Kg Phosphorus and 20-30 Kg Potash should be applied in the field before sowing.
- Seed treatment should be done before sowing of rabi crops.
- Seeds of wheat should be treated by Carboxin @ 2g/kg seeds or Tebuconazole @ 1.5g/kg seeds.
- Seeds of Pulse crop should be treated with 2g Thyrum + 1g Carbendazim / Kg of seed and oilseed crops should be treated with Metalaxyl @ 6 g/Kg seed.
- Check the quantity of brix in the juice of ratoon sugarcane crop. When quantity of brix reaches up to 18%, then cutting of sugarcane should be done and send them to the mill. Immediately after the harvesting of sugarcane, field should be prepared for rabi crops.

Horticultural Management:

- 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.
- Seed rate for European and Asian variety of Radish should be 6-8Kg/ha and 10-12 kg/Ha respectively.
- Dung manure should be applied in the field before sowing the seed of radish. Fertilizer should be used on the basis of soil testing and distance of line of sowing should be 20-25cm. On the germination of seed plant to plant distance should be maintained at a distance of 8-10 cm.
- Weeding and hoeing should be done in the garlic crop.
- On the occurrence of rounded spot in the leaves of Cabbage class crops (Cole crops), Mencozeb @ 2g/liter of water should be sprayed.
- Recommended dose of phosphatic and potassic fertilizer should be used in the basin at a distance of 2 meter from main stem.
- To control the Mango mealy bug in mango, hoeing should be done near the main stem of Mango tree and intersperse 200-250 g chlorpyrifos (5%) n mix in the soil and take the protective measure by applying the polythene sheet.
- Fertilizer should be applied in the proper moisture condition and if proper moisture is not available in the field then irrigation should be given.
- With main nutrients, micronutrients as 250 g Borex, Zink Sulphate and Copper Sulphate should also be applied in 10year fruit trees.

Animal Husbandry:

- With the changing weather, there is a high chance of Niomonina 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.
- Vaccination of FMD (Foot and Mouth Disease) should be given to the animals.
- Keeping in mind the probable high rate of Cattle's delivery in this month, especially in Buffalo, 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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