

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				
	16/11/2016	17/11/2016	18/11/2016	19/11/2016	20/11/2016
Rainfall (mm)	0	0	0	0	0
Max Temp ($^{\circ}$ C)	28	28	28	28	27
Min Temp ($^{\circ}$ C)	09	09	09	08	08
Cloud Cover	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	85	85	85	85	85
Min RH II (%)	45	45	45	45	45
Wind speed (km/h)	04	04	06	06	04
Wind direction	NNW	NNW	NNW	NW	W

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 (8-14 November, 2016) are as follows:

Weather Parameter	Udham Singh Nagar						
	08/11/2016	09/11/2016	10/11/2016	11/11/2016	12/11/2016	13/11/2016	14/11/2016
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ($^{\circ}$ C)	28.5	28.6	29.0	29.2	29.5	30.4	29.4
Min Temp ($^{\circ}$ C)	9.4	11.2	11.4	12.4	12.3	12.9	10.8
CC I	Clear	Clear	Clear	Clear	Clear	Clear	Clear
CC II	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	92	90	91	91	89	91	90
Min RH II (%)	36	34	36	37	36	37	37
Wind speed (km/h)	3.9	3.5	3.3	2.1	1.1	1.7	2.3
Wind direction I	Calm	Calm	Calm	Calm	Calm	NNW	Calm
Wind Direction II	ENE	ESE	ENE	ESE	ENE	ESE	WSW

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.
- Average temperature should be 22-23° C at the time of sowing of wheat. In Udham Singh Nagar this temperature reaches around 15th November. Sowing of Wheat before 15th November may result smaller grains in size.
- 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.
- Weeding and hoeing should be done after 25-30 days of sowing of winter season sugarcane crop. After 30-40 days of sowing, irrigation should be given as per requirement of the crop.
- On the occurrence of white Gerui and Tulasita disease in toria, yellow mustard and rai crop, 2.0 Kg mancozeb or Ridomil MZ in 800 liter of water per hectare should be sprayed.

Horticultural Management:

- 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.
- 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.
- Weeding and hoeing should be done in the garlic crop.
- On the occurrence of Thrips and Purple blotch in the garlic crop, mixture of Dithane 45 (0.2%) + Metasystox (0.1%) + Sandovit (2-3g/liter) should be sprayed.
- Sowing of pea must be completed in the second week of this month, if not sown earlier, for this seeds @ 80-90 Kg/ha is required. 25 Kg Nitrogen, 70 Kg Phosphors and 50 Kg Potash should be applied in the field before seed sowing and seed sowing should be done at 30 cm distance in the lines.
- On the occurrence of rounded spot in the leaves of Cabbage class crops (Cole crops), Mencozeb @ 2g/liter of water should be sprayed.
- For proper management of leaf spot disease in the brinjal crop, affected lower leaves should be destroyed and the solution of Mencozeb @ 2g/liter should be sprayed.
- To save the brinjal crop from juice sucking insect, Melathiyani 0.1% should be sprayed after picking up the fruits.
- To save the Pea crop from stem fly, Carbofuran 3 CG @ 25Kg/Ha should be applied in the field with manure and seed at the time of sowing the seed.

- On the occurrence of fruit borer in the Tomato, Chlorantraniliprole 18.5 SC @ 150ml/Ha or Indoxacarb 14.5 SC @ 500ml/Ha should be used.
- On the attack of White fly in tomato, Cyantraniliprole 10.26 OD @ 900ml/Ha or Thiamethoxam 25 WSG @ 200g/Ha should be applied.

Animal Husbandry:

- With the changing weather, there is a high chance of Niomoniasis 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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