

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 Nainital district are as follows:

Parameter	Nainital				
	17/11/2018	18/11/2018	19/11/2018	20/11/2018	21/11/2018
Rainfall (mm)	0	0	0	0	0
Max Temp ($^{\circ}$ C)	17	17	17	18	18
Min Temp ($^{\circ}$ C)	7	7	8	8	8
Cloud Cover	P-Cloudy	P-Cloudy	Cloudy	Clear	Clear
Max RH I (%)	85	85	85	80	80
Min RH II (%)	40	45	45	40	35
Wind speed (km/h)	006	006	004	006	008
Wind direction	NW	NW	NW	NW	NW

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (9 – 15 Nov, 2018), it is observed that state of sky was p-cloudy. Maximum and minimum temperature varied between $14.5.0^{\circ}$ C to $16.0.0^{\circ}$ C and 4.5° C to 7.2° C respectively.

Weather Based Agro-Advisories

Crop Management:

- Sowing of wheat should be done. Seed should be treated before sowing of rabi crops.
- Seed treatment of wheat crop with tricondarma 5g + pseudomonas 5g/kg should be done.
- In loose smut affected areas, seeds of wheat should be treated by Carboxin or Tebuconazole 2DS @ 2.5g/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.
- Immediately after or within 3 days of sowing of wheat and barley, spraying of 2.5-3.3 liter Pendimethalin 30 EC in 750 liter of water should be done. If spraying of Pendimethalin is not done earlier then, 400 g westar herbicide in 500 liter of water should be sprayed after 30-35 days of sowing to control the weed.
- Farmers are advised that only those seeds are selected which are recommended for the area.

- For organic farming, seed should be treated with *Trichoderma harzianum* + *Pseudomonas* @ 5-5g/Kg of seed for all rabi crops. Requirement of nutrients in the field should be completed with vermicompost or dung manure or bio-fertilizer. To control the earthborn diseases, vermicompost and dung manure should be treated with 25g *Trichoderma* +250g *Pseudomonas* biocontrol /Quintal and keep in the shed for 1 week and apply in the field before sowing.
- In Pulse crop, if labour are available then weeding should be done at the interval of 20-25 days and 35-40 days after sowing.
- To control the weed in gram, 1.7 liter Fluchloralin or 1.5 liter Trifluralin in 800 liter of water should be sprayed before sowing the gram in irrigated condition.

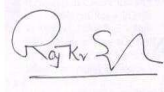
Horticultural Management:

- On the shrinkage or getting piebald of upper leaves of chilly and tomato, infected plants should be removed and destroyed. To control the disease carried insects any sarvangi insecticide should be sprayed.
- To control the leaf spot disease in cole crops, solution of mancozeb @ 2.5 g/liter of water should be sprayed.
- Picking of the pods of beans and pea should be done.
- Hoeing should be done in snowball cauliflower with the supply of urea.
- Transplanting of selected root of radish, turnip and carrot should be done in new field for seed production.
- In valley sowing of garlic should be done.
- In mid hills, plucking of brinjal and capsicum should be done and disease infected fruit of leaves should be kept away from field.
- Fertilizer, compost, fungicide/ insecticide which are mixed in soil while filling the pits should be arranged in sufficient quantity.
- Improved varieties of deciduous plants should be reserved.
- Preparation of basins should be started and solution of 30 kg lime + 500 g neela thotha (copper sulfate) + 500 ml linseed oil in 100 liter of water should be painted upto 2.3 ft high from the ground of the stem of tree.

Animal Husbandry:

- Vaccination of FMD (Foot and Mouth Disease) should be given to the animals.
- Foot and Mouth Disease is identified by red eyes, high fever, less productivity and food taken capacity, Mouth ulcers, wound in foot due to delay in the treatment of animals. Infected animals should be separated from healthy 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.
- In case of new born, placenta should be cut with new blade and tie a knot in that. Don't forget to apply Betadine or Tincher on the cut.
- *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, 10-15 CC 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

- 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.

A handwritten signature in black ink, appearing to read 'R K Singh', is written over a horizontal line.

Dr. R K Singh
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AMFU- Pantnagar