

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				
	22/12/2018	23/12/2018	24/12/2018	25/12/2018	26/12/2018
Rainfall (mm)	0	0	10	0	0
Max Temp ($^{\circ}$ C)	16	16	17	16	16
Min Temp ($^{\circ}$ C)	3	3	4	4	3
Cloud Cover	Clear	Clear	P-Cloudy	Cloudy	Cloudy
Max RH I (%)	85	85	85	85	85
Min RH II (%)	45	45	45	45	45
Wind speed (km/h)	006	006	004	006	006
Wind direction	NW	NW	ESE	NW	NW

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (14 – 20 Dec, 2018), it is observed that state of sky was p-cloudy. Maximum and minimum temperature varied between 5.2° C to 23.0° C and 1.0° C to 3.6° C respectively.

Weather Based Agro-Advisories

Crop Management:

- Weeding and hoeing should be done in the sugarcane crop and remaining dose of nitrogen should be applied on time.
- To control the leaf spot disease in mustard, solution of mancozeb @ 2.5 g/liter of water should be sprayed.
- In pulse crops, quizolofop p-methyl (targa super) 5 EC @ 1lit/700lit of water should be sprayed after 15-20 days of sowing.
- In Bhabar region, sowing of late sown variety of wheat like UP 2425, UP2328, PBW 373, UP 2526, UP 2565 should be done till 25 December.
- To control the grassy and broad leaf weed in wheat field, solution of vesta @ 400g/ 700 lit of water/ ha should be sprayed after 30-35 days of sowing.
- To control the weed, solution of total (or Sulfosulfuron and Metsulfuron-methyl) @ 40g/ 700 lit of water/ ha should be sprayed after 25-30 days of sowing wheat crop.

- On the occurrence of frost/fog, timely irrigation should be applied in the field.
- 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.

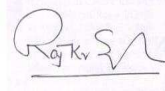
Horticultural Management:

- 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.
- In the irrigated valley, field should be selected for tomato, Capsicum and brinjal seedlings in the poly-house or poly-tunnel and soil treatment should also be done. Seed should be imported from authorized institute according to the climatic condition.
- Weeding and hoeing should be done in the crops like cabbage, cauliflower, radish, turnip and recommended chemical should be sprayed.
- On the occurrence of yellowish brown spot in tomato, mancozeb 2.5-3g/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.
- On the withering of tomato, solution of trichoderma harzianum or pseudomonas fluorescens @ 8-10 g/liter of water should be sprayed on the infected and their nearby plants.
- To control the Canker disease in the apple, 0.3% Copper-oxichloride should be used after cutting and pruning. Unwanted and affected branches of apple should be removed through pruning and insecticide and fungicide should be sprayed.
- In high hills, seeds of wild apricot, peach, mehal, apple etc should be collected and dried. Sowing should be started after suitable treatment of the seed.
- 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:

- To save the animals from cold, proper arrangement of animal shed should be done. Vaccination should be given to the animals to save them from Rinderpest disease (Sheetla rog).
- 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.
- 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.
- 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.

- 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.

A handwritten signature in black ink, appearing to read 'R.K. Singh', is written over a light pink rectangular background.

Dr. R K Singh
Professor & Principal Nodal Officer-GKMS
AMFU- Pantnagar