

ग्रामोभ्युदयादेव देशोभ्युदयः

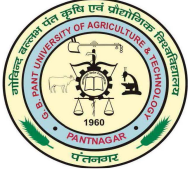
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As per forecast received from National Centre for Medium Range Weather Forecast, India Meteorological Department, Mausam Bhawan, New Delhi and value added to the forecast by Meteorological Centre, Dehradun for next five days for Nainital district are as follows:

Parameter	Nainital				
	05/01/2019	06/01/2019	07/01/2019	08/01/2019	09/01/2019
Rainfall (mm)	0	8	10	2	0
Max Temp ($^{\circ}$ C)	11	9	8	9	10
Min Temp ($^{\circ}$ C)	1	0	-1	-1	0
Cloud Cover	Cloudy	Dense Cloud	Dense Cloud	P-Cloudy	P-Cloudy
Max RH I (%)	85	90	95	85	85
Min RH II (%)	40	45	50	45	40
Wind speed (km/h)	006	006	008	006	004
Wind direction	NNW	ESE	ESE	E	NNW

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (28 December 2018- 03 January 2019), it is observed that state of sky were clear to dense clouds. Maximum and minimum temperature varied between 8.4° C to 17.2° C and -3.0° C to 3.9° C respectively.

Weather Based Agro-Advisories

Crop Management:

- Irrigation should be given at 20-25 days of sowing in the wheat sown in the month of December and remaining $1/3^{\text{rd}}$ dose of Nitrogen should be applied after irrigation.
- In pulse crops, quizolofop p-methyl (targa super) 5 EC @ 1lit/700lit of water should be sprayed after 15-20 days of 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 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.

- In winter crop of sugarcane, if labours are available then recommended one fourth dose of Nitrogen @ 40Kg/ha (almost 82Kg Urea/Ha) should be applied after irrigation and deep hoeing in the field.
- In the Ratoon crop of sugarcane, 60 Kg Nitrogen, 60 Kg Phosphorous and 40 Kg potash /Ha should be mixed in the soil in proper moisture condition and to control the weed, thick layer of dry leaves of sugarcane should be spread in between two lines of sugarcane which maintain the moisture in the soil. Farmers who want to take Ratoon crop of sugarcane, then harvesting of sugarcane should be done in the mid February.
- Necessary arrangement of nutrients should be done for crops and weeding, hoeing and irrigation should also be done.
- To control the leaf spot disease in mustard, solution of mancozeb @ 2.5 g/liter of water should be sprayed.
- On the occurrence of frost/fog, timely irrigation should be applied in the field.
- To control the tulasita disease in mustard, solution of mancozeb @ 2.5 g/liter of water should be sprayed.

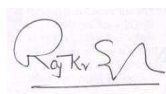
Horticultural Management:

- Advance quality seeds of tomato, brinjal and capsicum should be collected from recommended institution and sowing should be done in the nursery.
- To save the nursery from frost, it should be covered with the plastic seed with proper circulation of wind and light.
- Sowing of fruit crops like-apple, pear, plum, wall nut etc should be started.
- Basin should be prepared in the temperate fruit plants and right quantity of dung manure, Nitrogen and Phosphorous should be applied in the field.
- 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.
- To control the fruit Rot disease in apple and seed bearing fruits, soil should be removed from the surrounded area of stem in the affected fruit tree so that sun rays may enter directly in the stem of affected tree. Affected bark should be removed and chaubatia paste should be applied and covered with soil. Drenching of 0.3 % Copper-oxichloride/plant should also be done.
- In high hills, pruning of temperate fruit trees like apple, pear, peach, plum etc should be started.
- Layout and digging of pits should be started for the transplanting of apple and other seed bearing fruit seedlings in winter season.
- 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 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.

Animal Husbandry:

- To save the animals from cold, proper arrangement of animal shed should be done.
- 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, 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.
- 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.
- In hilly areas, heater may be used to protect the animals from cold. Rice husk should be given to the animals as a food which is the source of energy.
- Maintain the temperature of dwelling place of poultry birds.
- With the changing weather, there is a high chance of Niomonina in new born animals. So, it is advisable 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.



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