

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				
	07/01/2017	08/01/2017	09/01/2017	10/01/2017	11/01/2017
Rainfall (mm)	5	20	5	0	0
Max Temp ($^{\circ}$ C)	12	09	10	11	12
Min Temp ($^{\circ}$ C)	03	03	03	02	02
Cloud Cover	Dense Cloud	Overcast	Dense Cloud	P-Cloudy	P-Cloudy
Max RH I (%)	95	95	95	90	90
Min RH II (%)	65	65	55	50	50
Wind speed (km/h)	10	10	08	08	10
Wind direction	SE	SE	NE	NNW	NW

Light rain and dense cloud may occur during 7, 8 and 9th Jan due to the occurrence of western disturbances in the region.

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (30 Dec 2016 -05 Jan, 2017), it is observed that state of sky were clear to dense cloudy and rainfall of 0.0 mm was received. Maximum and minimum temperature varied between 9.3 $^{\circ}$ C to 14.0 $^{\circ}$ C and 0.3 $^{\circ}$ C to 3.0 $^{\circ}$ C respectively.

Weather Based Agro-Advisories

Crop Management:

- To control the weed in wheat crop, clodinafop + metsalfuron (60+4)g active ingredient and solution of this weedicide @400g/ha in 500 liter of water should be sprayed after 30-35 days to control the broad and thin leaf weed.
- 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 Painted bug of mustard crop, Dichlorvos 76EC @ 627 ml/Ha should be sprayed.
- On the occurrence of Mahu in the mustard crop, Thiamethoxam 25 WSG @ 50-100g/Ha should be sprayed and its waiting period is 21 days.
- On the occurrence of frost/fog, timely irrigation should be applied in the field.

Horticultural Management:

- To control the late blight disease in tomato and potato, Mancozeb 75% @ 2.5g/liter should be sprayed.
- To control the Ratva disease in Pea crop, Mancozeb 75% @ 2.5g/liter should be sprayed.
- Soil treatment should be done with chemical like Formalin after clearing and digging the soil for sowing tomato, Capsicum and Cucumber.
- If polyhouse is clear and well treated, then to get the seedlings of tomato, Capsicum and brinjal, nursery bed should be prepared at ridge and seeds should be sown at proper distance.
- If Rai crop is sown in the polyhouses, it is advised that Rai leaves should be send to the market after cutting from time to time, and then irrigate the field.
- Deep ploughing of field should be done for sowing of potato in the month of March and contact to the Central Potato Institute, Shimla for arrangement of seeds of different variety of potato like Kufri Girdhari, Kufri Himalini or Kufri Shelja.
- Field preparation for Chappan kaddu (summer Squash), i.e. Clearing and deep ploughing of field should be done as well as mulching should be done for moisture conservation.
- To control the late blight disease in potato, mixture of cymoxanil 8% + mancozeb 64% @ 2g/liter of water should be sprayed. Don't spray two continuous doses of these chemicals. Mancozeb @2.5g/liter (or Copper Oxichloride @3g/liter) should be sprayed in between two spray of chemicals.
- 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.
- For transplanting of temperate fruit plants during winter season, it is advised that booking of seedlings of the fruit plants may be done for purchase only from registered nursery or University or Government nursery.
- 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.

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 Niomoniasis 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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