

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				
	22/02/2017	23/02/2017	24/02/2017	25/02/2017	26/02/2017
Rainfall (mm)	8	0	0	0	0
Max Temp ($^{\circ}$ C)	14	15	16	17	17
Min Temp ($^{\circ}$ C)	04	05	05	06	06
Cloud Cover	Dense Cloud	P-Cloudy	P-Cloudy	P-Cloudy	P-Cloudy
Max RH I (%)	85	80	80	80	80
Min RH II (%)	45	40	40	40	40
Wind speed (km/h)	004	006	008	008	006
Wind direction	NE	NW	NW	NW	NW

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (14-20 Feb, 2017), it is observed that state of sky were clear to partly cloudy and rainfall of 0.2 mm was received. Maximum and minimum temperature varied between 18.8° C to 21.8° C and 5.7° C to 8.6° C respectively.

Weather Based Agro-Advisories

Crop Management:

- 120 Kg Nitrogen, 60 Kg Phosphorous and 40 Kg Potash are used for spring season sugarcane crop, $1/3^{\text{rd}}$ dose of Nitrogen and complete dose of phosphorous and potash should be used as basal application.
- For sowing sugarcane crop in per hectare of field 40-50 thousand pieces of three eyes sugarcane should be used.
- Sowing of sugarcane crop should be completed up to 15th March.
- Recommended variety of sugarcane should be taken according to your region.
- Seed treatment sugarcane pieces should be done. Treatment should be done by dipping the pieces in 0.25% solution of agallol or emisan-6 for 10 minutes.
- Weeding, hoeing, irrigation and nutrients should be applied in the wheat crop.
- Preparation for sowing spring season sugarcane crop should be done.

- On the occurrence of Mahu insect in the wheat crop, Thiamethoxam 25WSG @50g/Ha or Quinolphos 25 EC @1liter/Ha should be sprayed.
- On the occurrence of yellow ratva disease in wheat crop, solution of Propiconazole 25EC @ 1ml/liter of water 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.

Horticultural Management:

- Seeds of brinjal, tomato, capsicum and chilly should be sown in the nursery for transplanting in mid and high hills.
- In case of increased temperature in the valleys, Arka komal and Contender variety of french bean should be sown.
- On the occurrence of Purple blotch disease in onion and garlic crop in valleys, 25g Blaitox chemical in 10 liter of water should be sprayed.
- In mid and high hilly areas, seeds and tuber should be treated in 0.25% solution of Mencozeb for half an hour and dried in the shed and keep them for sowing in the March month.
- On the occurrence of leaf miner insect in pea crop, 0.08% Imadacloprid chemical should be sprayed.
- To control the late blight disease in tomato, Mancozeb 75% WP @ 2.5g/liter should be sprayed.
- To control the Ratva disease in Pea crop, Mancozeb 75% @ 2.5g/liter or Propiconazol @ 1ml/Liter should be sprayed.
- Ensure the nutrient supply in the temperate fruit trees in mid and high hills.
- To control the leaf curl disease in the seed bearing fruit like Peach, plum etc recommended insecticide should be used.
- Tongue grafting should be started in the nursery for high quality temperate fruit plant.
- 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 done.

Animal Husbandry:

- Maintain the temperature of dwelling place of poultry birds. To save the poultry bird from cold, thickness of bedding material should be increases so that they can get sufficient heat to maintain their temperature.
- To save the animals from cold, proper arrangement of animal shed should be done. 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 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, increase the amount of oil and Jaggery (Gur) in the food of animals. Caraway (Ajwain) and gur also 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.

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