

# 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				
	16/11/2016	17/11/2016	18/11/2016	19/11/2016	20/11/2016
Rainfall (mm)	0	0	0	0	0
Max Temp ( <sup>0</sup> C)	18	18	18	17	17
Min Temp ( <sup>0</sup> C)	05	05	05	04	04
Cloud Cover	Clear	Clear	Clear	Clear	Clear
Max RH I (%)	80	80	80	80	80
Min RH II (%)	40	40	40	40	40
Wind speed (km/h)	04	04	06	06	04
Wind direction	NNW	NNW	NNW	NW	W

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (8-14 November, 2016), it is observed that state of sky were clear and rainfall of 0.0 mm was received. Maximum and minimum temperature varied between 17.7<sup>0</sup>C to 21.8<sup>0</sup>C and 5.3<sup>0</sup>C to 8.1<sup>0</sup>C respectively.

### Weather Based Agro-Advisories

#### Crop Management:

- Sowing of wheat should be done. Seed should be treated before sowing of rabi crops.
- Seeds of wheat should be treated by Carboxin @ 2g/kg seeds or Tebuconazole @ 1.5g/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:**

- In temperate fruit trees, basin should be prepared and stem of tree should be painted with 30 Kg lime+ 500g Copper-oxichloride + 500ml Linseed oil mixed in 100 liter of water at the height of 2-3feet from the ground.
- Manure, fertilizer and other chemicals should be applied after pruning.
- 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.
- In case of drying of plants in the French bean crop, same should be sprayed at the root with the solution of Carbendazim @ 1g/ liter of water or Trichoderma @ 6-10g/liter of water.
- On the occurrence of brown spot in the leaves of tomato, solution of Mencozeb @ 2g/liter should be sprayed.
- In irrigated valleys, seed arrangement and preparation should be done for the sowing of Arkil variety of pea. Sowing should be done within 10-12 days.
- Sowing the seeds of Agrifound Light Red onion variety should be done in the irrigated valleys. If the seed of VL3 variety of onion is available then, it can also be sown in the hills. Nursery should be prepared in that region where seedlings should not be prepared earlier.
- Onion seeds should be treated with the Thyrum. 2.5g chemical should be sufficient for treatment of 1 Kg of seed.
- If the leaves of Rai vegetables, sown in the poly-house or in the outer environment, are ready then send them to the market. Then after irrigation should be given and light top dressing of Urea should be given to the field in the proper moisture condition after 1-2 days of irrigation.
- In the irrigated valleys, if seedlings of Rai are ready for transplanting then transplant them at a distance of 50x40 cm in the poly-house or in the outer environment.
- To save the Pea crop from stem fly, Carbofuran 3 CG @ 25Kg/Ha should be applied in the field with manure and seed at the time of sowing the seed.
- On the occurrence of fruit borer in the Tomato, Chlorantraniliprole 18.5 SC @ 150ml/Ha or Indoxacarb 14.5 SC @ 500ml/Ha should be used.
- On the attack of White fly in tomtom, Cyantraniliprole 10.26 OD @ 900ml/Ha or Thiamethoxam 25 WSG @ 200g/Ha should be applied.

### **Animal Husbandry:**

- 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.
- Vaccination of FMD (Foot and Mouth Disease) should be given to the 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.
- 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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