

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 Udham Singh Nagar and plain area of Nainital districts are as follows:

| Parameter | Udham Singh Nagar | | | | |
|--------------------------|-------------------|---------------|-------------|---------------|---------------|
| | 18/03/2016 | 19/03/2017 | 20/03/2017 | 21/03/2017 | 22/03/2017 |
| Rainfall (mm) | 0 | 0 | 0 | 0 | 0 |
| Max Temp ($^{\circ}$ C) | 28 | 29 | 30 | 29 | 29 |
| Min Temp ($^{\circ}$ C) | 09 | 10 | 11 | 10 | 10 |
| Cloud Cover | Partly Cloudy | Partly Cloudy | Dense Cloud | Partly Cloudy | Partly Cloudy |
| Max RH I (%) | 80 | 80 | 85 | 80 | 80 |
| Min RH II (%) | 40 | 40 | 45 | 40 | 40 |
| Wind speed (km/h) | 06 | 04 | 04 | 08 | 10 |
| Wind direction | NW | SE | NW | NW | NW |

According to Meteorological observations recorded at Agrometeorological Observatory, AMFU- Pantnagar, G B Pant University of Agriculture & Technology (Altitude: 243.8 m) during last seven days (10 to 16 March 2017) are as follows:

| Weather Parameter | Udham Singh Nagar | | | | | | |
|--------------------------|-------------------|-------------|-------------|------------|------------|------------|------------|
| | 10/03/2017 | 11/03/2017 | 12/03/2017 | 13/03/2017 | 14/03/2017 | 15/03/2017 | 16/03/2017 |
| Rainfall (mm) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Max Temp ($^{\circ}$ C) | 27.0 | 21.5 | 21.0 | 23.0 | 24.9 | 26.0 | 28.0 |
| Min Temp ($^{\circ}$ C) | 14.1 | 9.6 | 6.9 | 5.9 | 6.0 | 8.2 | 9.9 |
| CC I CC II | P-Cloudy | Overcast | Dense Cloud | Clear | P-Cloudy | Clear | Clear |
| | Cloudy | Dense Cloud | Cloudy | Cloudy | Clear | Clear | Clear |
| Max RH I (%) | 73 | 92 | 92 | 91 | 91 | 87 | 83 |
| Min RH II (%) | 57 | 82 | 35 | 48 | 36 | 30 | 36 |
| Wind speed (km/h) | 4.9 | 8.0 | 6.8 | 8.0 | 5.8 | 4.6 | 6.4 |
| Wind direction I | ENE | WNW | Calm | N | Calm | Calm | Calm |
| Wind Direction II | ESE | WNW | WNW | WNW | WNW | WSW | WNW |

Weather Based Agro-Advisories

Crop Management:

- Harvesting of pea should be done when 90% of pods turn brown after maturing. Threshing of crop should be done after drying and proper storage of grains should be done.
- Fodder crops like chari, Maize, bajara, makchari, lobia and jawar etc can also be sown in this month.
- Moong should be sown from second fortnight of March up to 10th April.
- If the leaves of gram and lentil are falling after turning yellow, then harvest them. Harvesting should be done in the morning and after drying in the sunlight for 6-7days, threshing should be done. Storage is done only after proper drying the grains.
- To control the blight disease in gram and lentil, Mancozeb 75% WP @ 2.5g/lit should be sprayed.
- On the occurrence of powdery mildew disease in wheat crop, solution of Propiconazole 25EC @ 1ml/liter of water should be sprayed.
- To control the fruit borer in gram crop, solution of 125 ml of Chlorantraniliprole 18.5 SC or 220 g of Emamectin benzoate 5SG or 750 ml of Novaluron 10 EC or 500 ml of Lembdacyhalothrin 5EC in 500 liter of water should be sprayed @ per hectare.
- On the occurrence of Mahu insect in the wheat crop, Thyomethakzam 25WSG @50g/Ha or Quinolphos 25 EC @ 1liter/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.

Horticultural Management:

- Ploughing of orchard should not be done at the time of flowering.
- Irrigation should be applied to the orchard.
- Insecticides should not be used at the time of flowering because this may be dangerous and causes the dying of pollinator.
- On the highly occurrence of powdery mildew in mango, spraying of wetttable sulfur @ 2g/lit or Carathin @ 6ml/10lit should be done on the recommendation of scientists.
- If the upper part of the Onion and Garlic leaf turns yellow then to control it, solution of Difenoconazole @ 1ml/liter + Fipronil 5% SC @ 1lit/Ha and Sticker @ 0.5 ml/lit should be sprayed.
- On the occurrence of fruit borer in the Tomato, fruit should be used only after 3 days and 5 days of spraying of Chlorantraniliprole 18.5 SC @ 150ml/Ha and Indoxacarb 14.5 SC @ 500ml/Ha respectively.
- On the attack of White fly in tomtom, Cyantraniliprole 10.26 OD @ 900ml/Ha or Thiamethoxam 25 WSG @ 200g/Ha should be applied and fruit should be used after 5days of spraying.
- To control the stem and fruit borer in brinjal, spraying of Emamectin benzoate 5SG @ 200g/Ha, Cypermethrin 25EC @200ml/Ha, Lambda cyhalothrin 5CS @ 300ml/Ha should be done and fruit should be used after 5 days of last spraying of chemicals.
- To save the chilly from Thrips, Lambda cyhalothrin 5EC @300ml/Ha or Fipronil 5SC @ 1Liter/Ha should be sprayed and chilly is used after 7 days of spraying of chemicals.
- To control the Mite in chilly, diafenthuron 50WP @ 600g/Ha or Lambda cyhalothrin 5EC @ 300ml/Ha should be sprayed and in this case fruit may be used after 5 days of spraying.
- In onion crop, to control the Thrips Lambda cyhalothrin 5EC @ 300ml/Ha and to control Purpil Blotch difenoconazole 25 EC @ 0.1% or Kitazin 48EC @ 0.2% should be sprayed. Onion crop

should be used after 5 and 20 days of spraying of cyhalothrin 5EC for thrips & difenoconazole 25 EC for Purpil Blotch respectively.

Animal Husbandry:

- For obtaining the high production from poultry birds, temperature of their dwelling place should be maintained. Balanced diet, fresh and neat water should be given to them.
- 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.
- 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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