

# ग्रामोभ्युदयादेव देशोभ्युदयः

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## Gramin Krishi Mausam Sewa Bulletin, District - Udham Singh Nagar

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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				
	11/03/2016	12/03/2017	13/03/2017	14/03/2017	15/03/2017
Rainfall (mm)	5	3	0	0	0
Max Temp ( $^{\circ}$ C)	26	26	27	27	28
Min Temp ( $^{\circ}$ C)	12	11	09	08	08
Cloud Cover	Dense Cloud	Dense Cloud	Cloudy	Clear	Clear
Max RH I (%)	90	90	85	80	80
Min RH II (%)	45	45	40	40	40
Wind speed (km/h)	10	08	10	08	14
Wind direction	ESE	NW	NW	NW	NW

**Light rain with dense cloud may likely to occur at isolated places on 11<sup>th</sup> and 12<sup>th</sup> March in Udham Singh Nagar district.**

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 (03 to 09 March 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	03/03/2017	04/03/2017	05/03/2017	06/03/2017	07/03/2017	08/03/2017	09/03/2017
Rainfall (mm)	0.0	0.8	0.0	0.0	0.0	0.0	2.8
Max Temp ( $^{\circ}$ C)	28.3	27.5	26.9	27.0	26.5	27.6	25.0
Min Temp ( $^{\circ}$ C)	10.0	8.4	8.3	6.4	6.5	11.6	14.0
CC I	Clear	P-Cloudy	Clear	Clear	Clear	Overcast	Overcast
CC II	Cloudy	Clear	Clear	Clear	P-Cloudy	Dense Cloud	Cloudy
Max RH I (%)	77	87	87	94	89	88	80
Min RH II (%)	29	35	39	41	34	55	42
Wind speed (km/h)	3.8	5.8	2.7	5.5	5.7	2.3	6.1
Wind direction I	N	WNW	N	Calm	N	Calm	ESE
Wind Direction II	WSW	WNW	WNW	WSW	WSW	ESE	W

## Weather Based Agro-Advisories

### Crop Management:

- Immediate supply of late sown variety of sugarcane to the mills should be done after harvesting. Urea should be applied in the field and cover the field with 10cm thick layer of dry leaves before taking ratoon crop. If more than 45cm space is found in the lines then fill them with the pieces of sugarcane. More than 20% Nitrogen should be used in ratoon crop as compare to the Naulakh sugarcane crop. Half dose of nitrogen should be given at the time of first irrigation and remaining half dose at the second and third irrigation.
- Sowing of spring season sugarcane crop should be completed till 15<sup>th</sup> March. Seeds should be taken from the registered seeds nursery. Seed should be treated in the solution of Carbendazim for 10 minutes before sowing.
- Sowing of Urd should be completed till 15<sup>th</sup> March.
- Sowing of sunflower and groundnut variety should be completed upto 15<sup>th</sup> March.
- Modern hybrid variety of sunflower like BSH-1, Arun, Paras, Divyamukhi and jwalamukhi should be selected for sowing. 10-12 Kg/Ha seeds should be sown in lines at a distance of 45 cm and plant to plant distance would be 20cm. 80 Kg Nitrogen, 60Kg Phosphorous and 40Kg potash per Hectare should be applied.
- Ground nut variety like Punjab Moongfali-1, Type-64, Kaushal, Prakash, Amber etc should be sown in lines at a distance of 30cm with plant to plant distance of 10cm. Seed rate should be 80-100Kg/Ha. 20 Kg Nitrogen, 40Kg Phosphorous and 45 Kg potash /Ha should be used.
- 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:

- Irrigation should be applied to the orchard.
- Insecticides should not be used at the time of flowering because this may be dangerous to the pollinators.
- On the highly occurrence of powdery mildew in mango, spraying of wettable 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 Difenconazole @ 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 tomtto, 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 chaemicals.

- 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, diafenthiuron 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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