

ग्रामोभ्युदयादेव देशोभ्युदयः

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Gramin Krishi Mausam Sewa Bulletin, District - Udham Singh Nagar

Year: 26 Issue No.: 25 Bulletin Period: 29 March-02 April 2017 Day: Tuesday Dated: 28-03-2017

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				
	29/03/2017	30/03/2017	31/03/2017	01/04/2017	02/04/2017
Rainfall (mm)	0	0	0	0	0
Max Temp ($^{\circ}$ C)	33	34	34	35	35
Min Temp ($^{\circ}$ C)	17	17	17	18	18
Cloud Cover	Clear	Clear	Partly-Cloudy	Partly-Cloudy	Cloudy
Max RH I (%)	85	85	85	85	90
Min RH II (%)	40	40	40	40	40
Wind speed (km/h)	10	08	08	08	10
Wind direction	NW	NW	NNW	NE	SE

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 (21 to 27, March 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	21/03/2017	22/03/2017	23/03/2017	24/03/2017	25/03/2017	26/03/2017	27/03/2017
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Temp ($^{\circ}$ C)	28.8	30.0	31.0	35.0	33.1	33.2	33.5
Min Temp ($^{\circ}$ C)	11.4	14.4	18.5	17.9	14.3	13.9	15.7
CC I	Clear	Clear	Clear	Dense Cloud	Clear	Clear	Clear
CC II	Clear	Clear	Clear	P-Cloudy	Cloudy	Clear	P-Cloudy
Max RH I (%)	88	72	78	74	91	84	80
Min RH II (%)	44	47	36	41	32	33	47
Wind speed (km/h)	5.2	4.3	6.3	5.3	5.6	6.5	4.5
Wind direction I	Calm	ENE	ENE	Calm	W	Calm	Calm
Wind Direction II	ENE	WSW	WNW	WSW	WNW	WSW	ESE

Weather Based Agro-Advisories

Crop Management:

- Sort duration variety of Urd like Pant Urd 31, Narendra Urd-1, UG 749 should be selected. Seed rate should be 30-35 Kg/Ha and line to line distance should be kept 20-25 cm. To control the

weed, 3.3 liter of Pendimethalin 30EC in 500-600 liter of water should be sprayed just after sowing and before germination. 15-20 Kg Nitrogen and 40-50 Kg Phosphorous /Ha should be used at the time of sowing.

- Moong variety like Pant moong-5, samraat etc should be sown at a distance of 25-30cm in lines with seed rate of 20-25 Kg/Ha at a depth of 3-4cm.
- Transplanting of mentha should be done during March-April. 40-45 days seedlings should be transplanted at a distance of 15-20 cm in lines and line to line distance should be 40 cm.
- Weeding and hoeing should be done in standing mentha crop after 10-15 days of first harvesting.
- Fodder crops like chari, Maize, bajara, makchari, lobia and jawar etc can also be sown in this month.
- 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.
- Fodder crops like chari, Maize, bajara, makchari, lobia and jawar etc can also be sown in this month.
- 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:

- On the occurrence of Gumba or Mango malformation, cut the affected part and put them in the pit and cover with soil.
- Ploughing of orchard should not be done at the time of flowering.
- Irrigation should be applied to the orchard as required.
- 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 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 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 tomato, 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, 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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