

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 | | | | |
|----------------------------|-------------------|------------|-------------|-------------|-------------|
| | 27/05/2017 | 28/05/2017 | 29/05/2017 | 30/05/2017 | 31/05/2017 |
| Rainfall (mm) | 0 | 5 | 10 | 15 | 10 |
| Max Temp (⁰ C) | 39 | 38 | 36 | 36 | 36 |
| Min Temp (⁰ C) | 23 | 22 | 21 | 20 | 21 |
| Cloud Cover | Cloudy | Cloudy | Dense Cloud | Dense Cloud | Dense Cloud |
| Max RH I (%) | 85 | 85 | 90 | 90 | 90 |
| Min RH II (%) | 45 | 45 | 50 | 50 | 50 |
| Wind speed (km/h) | 12 | 14 | 12 | 08 | 10 |
| Wind direction | SE | SE | SE | SE | SE |

Light to medium rain may likely to occur from 28th to 31st May 2017 with cloudy to dense clouded sky.

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 (19 to 25 May, 2017) are as follows:

| Weather Parameter | Udham Singh Nagar | | | | | | |
|----------------------------|-------------------|------------|------------|------------|------------|------------|-------------|
| | 19/05/2017 | 20/05/2017 | 21/05/2017 | 22/05/2017 | 23/05/2017 | 24/05/2017 | 25/05/2017 |
| Rainfall (mm) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Max Temp (⁰ C) | 37.0 | 38.0 | 37.0 | 39.0 | 37.5 | 39.0 | 39.5 |
| Min Temp (⁰ C) | 24.0 | 22.1 | 24.0 | 27.0 | 22.8 | 22.1 | 23.5 |
| CC I | Dense Cloud | Cloudy | P-Cloudy | Cloudy | P-Cloudy | Cloudy | Dense Cloud |
| CC II | P-Cloudy | Cloudy | Clear | Cloudy | P-Cloudy | Cloudy | Cloudy |
| Max RH I (%) | 70 | 72 | 76 | 54 | 74 | 67 | 49 |
| Min RH II (%) | 41 | 36 | 34 | 27 | 29 | 31 | 26 |
| Wind speed (km/h) | 5.7 | 6.0 | 4.5 | 10.0 | 9.3 | 3.9 | 4.1 |
| Wind direction I | ENE | ENE | ESE | WNW | WNW | ESE | ENE |
| Wind Direction II | S | WSW | WSW | WNW | WSW | WSW | WSW |

Weather Based Agro-Advisories

Crop Management:

- Nursery of mid duration variety of paddy like- Ratna, Pant dhan-12, Pant Sankar dhan-3, PNR-381, Pant Dhan-4, Narendra-359, Narendra Sankar dhan-16, Pant dhan-18, Pant dhan-23, Pant dhan-24, Pant dhan-26. PR-114 Pant dhan-23, Pant dhan-24, Pant dhan-26, PR-114, PR-116, HKR-47 should be prepared between 25th May to 10th June.
- Certified seeds or self produced healthy seeds should be used for nursery of paddy only after treatment.
- Seed rate for transplanting nursery should be 30, 35 and 40kg/hac for thin, moderate thick and thick variety of paddy respectively.
- Necessary irrigation should be applied in the sunflower so that plants will not fall down. Save the crops from parrot.
- To save the crop from bihar baaldar suri, one liter of quinalfos 25 EC should be sprayed.
- To save the sunflower from Jesid, one liter of methyl-o-dimetan 25 EC in 600-800 liter of water should be sprayed
- Necessary irrigation should be applied in Urd, Moong and cowpea (lobia) crops. After plucking of pods turn these crops in the field so that they can be utilized as green manure.
- Irrigation should be given in the sugarcane crop at an interval of 7-10 days.
- On the occurrence of black bug in sugarcane crop, phenthoate 50EC @ 1 liter/ha or 750 ml of monocrotofos 36 SL or 2liter of quinalphos 25 EC in 500liter of water should be sprayed.
- Bunding and summer ploughing of the field should be done in this month.

Horticultural Management:

- Necessary irrigation should be applied to maintain the proper moisture condition in the orchard.
- If the leaves of french bean and cowpea (lobia) shrink then sarvangi insecticide should be sprayed.
- Light irrigation should be given in the tomato and onion crop.
- Irrigation should be stopped in the onion crop having matured cloves, transplanted near 15-20 January.
- Stop the irrigation in the garlic crop. Collect the matured clove and keep them in the shed. Make the small bundle of these cloves and store in dry place with good ventilation.
- To save the chilly from Anthracnose disease (or ruchh rog), solution of copper oxi chloride @ 0.25% should be sprayed 2-3 times.
- To save the Okra from fruit borer insect, Sevin (Carbolic) @ 0.2 % should be sprayed.
- On the occurrence of yellow spot of irregular shape on cucurbitaceous crops, leaves should be examined by turning and if there is a growth of light gray fungus in the lower portion of leaves then it should be controlled by spraying the solution of Mancozeb @ 2.5 Kg/ Liter.
- If the veins of leaves of okra crop are turning yellow, then destroy the plants and Sarvangi insecticide should be sprayed to control the juice sucking insects.
- On the occurrence of fine mottled spot in upper leaves of chilly and tomato, Sarvangi insecticide at 10-15 days interval 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.
- 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.

Animal Husbandry:

- On the occurrence of nitrate toxicity in the food of animals, respiration and pulse rate of animals increases and they feel weakness and stiffness in their muscles. Give the 50-100 ml dose of 1% Methylene blue direct in the veins of animals if their food is affected by nitrogen toxicity.
- If animal has consumed the cyanide affected fodder then water should not be given to them. Animals should be kept away from grazing the less grown jawar, bajara and fodder in pasture.
- Small shrival/fade yellow stiff plants should not be used as fodder for animals to save them from cyanide.
- In the summer season, time to time spraying of melathiyam or other insecticide should be done in the drains near the animal shed.
- Temperature of animal shed should be maintained using cooling devices such as fan, cooler or latest cooling device to maintain the productivity of foreign cows and save them from diseases.
- When animal is affected by sun stroke then contact the veterinarian immediately for their remedy.
- Neat, fresh and cold water should be given to the animals three times in a day. Availability of sufficient moisture in the body of animals maintains the balance between the temperature of their skin and environment which save the animals from the effect of loo (summer wind).
- To save the animals from high temperature, balanced diet should be given to them. Green fodder mixed with dry fodder and grain must be given to the animals.

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