

ग्रामोभ्युदयादेव देशोभ्युदयः

Govind Ballabh Pant University of Agriculture and Technology

Department of Agrometeorology

College of Agriculture

Pantnagar-263145, Uttarakhand

Phone No. 05944 - 233 032



Gramin Krishi Mausam Sewa Bulletin, District - Udham Singh Nagar

Year: 26 Issue No.: 59 Bulletin Period: 2 - 6 August, 2017 Day: Tuesday Dated: 01-08-2017

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				
	02/08/2017	03/08/2017	04/08/2017	05/08/2017	06/08/2017
Rainfall (mm)	25	30	30	20	15
Max Temp (⁰ C)	33	32	32	32	32
Min Temp (⁰ C)	26	25	24	24	25
Cloud Cover	Dense Cloud	Dense Cloud	Dense Cloud	Dense Cloud	Dense Cloud
Max RH I (%)	90	95	95	95	95
Min RH II (%)	55	60	55	55	55
Wind speed (km/h)	006	008	008	006	006
Wind direction	ESE	NW	WNW	SE	SE

Moderate rain may likely to occur from 2nd to 6th August 2017 with 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 (25 – 31 July, 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	25/07/2017	26/07/2017	27/07/2017	28/07/2017	29/07/2017	30/07/2017	31/07/2017
Rainfall (mm)	28.4	0.0	1.2	9.4	3.8	2.8	99.8
Max Temp (⁰ C)	32.8	29.5	32.0	32.5	33.0	26.0	30.5
Min Temp (⁰ C)	24.5	26.5	25.0	24.6	23.0	25.9	23.9
CC I	Overcast	Overcast	Overcast	Dense Cloud	Dense Cloud	Overcast	Overcast
CC II	Overcast	Dense Cloud	Overcast	Dense Cloud	Overcast	Overcast	Dense Cloud
Max RH I (%)	90	90	92	87	87	90	92
Min RH II (%)	83	69	66	68	70	97	76
Wind speed (km/h)	8.6	7.5	5.2	5.2	9.9	7.2	7.2
Wind direction I	ENE	Calm	N	ENE	ESE	ESE	ESE
Wind Direction II	ENE	WSW	WNW	ESE	ESE	NNW	ESE

Weather Based Agro-Advisories

Crop Management:

- Late sowing of Maize can be done in this first week of August. For this, late sowing varieties like Kanchan, gaurav, saurya, Prakash etc may be used.
- Weeding and hoeing should be done in the Maize and Soyabean crops within 20-25days of sowing.
- On the occurrence of stem borer in the Maize, apply Carbofuron 3 CG @ 33Kg/Ha.
- Urd and Moong should be sown in this week in the regions which are free from water logging. For sowing, variety of Urd like Urd 19, Pant Urd 35, Pant Urd 31 and for Moong, Pant Moong 4, Pant Moong 5 should be selected.
- Sowing of Kharif fodder crops like Jawar, Lobia, Maize, Bazara, Cluster bean (Guar) etc should be completed up to 15th of August.
- In the first fortnight of August, 5-6 sugarcane of each row should be tied with dry leaves at the height of 1.5 to 2 feet from the ground. This will save the sugarcane crop from damage due to heavy rain and high wind.
- In monsoon season, it is advised that necessary arrangements should be done for drainage of water in the field of Sugarcane crop.
- When there is a large spread of broad leaf and Motha category weeds in the paddy crop, spray 2,4-D ester 36 EC @ 1.25 liter/Ha or 20% Almix @ 20g/Ha after 20 days of transplanting.
- To remove the broad and narrow weed in paddy, spray 10 EC Vispyaribek sodium @ 200ml/Ha after 15-20 days of transplanting under the proper moisture in the field.
- Sowing of cereal crops should be done after treating the seeds with bio-agent trichoderma @ 6-10g/Kg of seed. If bio-agent is not available then seed treatment should be done with thiram 2g + Carbendazim 1g /Kg of seed.
- On the occurrence of stem Borer and Leaf folder in paddy, Chlorantraniliprole 0.4 G @ 10000g/ha or Fipronil 0.3 GR @ 25000/ha or Kartap 4 GR @ 18750 g/ha should be sprayed within 50 days of transplanting.
- Maize sown area which is prone to the occurrence of stem borer, Carbofuran 3CG @ 33kg /ha should be applied in the soil at the time of sowing.
- On the occurrence of black bug in sugarcane crop, Chlorpyrifos 20 EC @ 2liter/Ha or phenthoate 50EC @ 1 liter/ha or 2 liter of quinalphos 25 EC in 500 liter of water should be sprayed.

Horticultural Management:

- In late maturing variety of mango, pheromone trap (methyl Uzinan and melathiyan) should be changed and collected flies should be thrown away.
- Establishment of new orchard should be started.
- Necessary arrangement should be done for proper drainage of rain water.
- Picking up of late variety of mango should be started.
- Remaining dose of ½ kg of nitrogen should be applied after plucking the fruits in the early variety of Mango tree.
- Sowing of dhaincha and inter crop should be done in the new orchard.
- New plants should be transplanted in place of dead plants in the old orchard.
- Transplanting of Chilly may be done on the ridge with row to row and plant to plant distance of 50cm and proper drainage should be made because excess amount of water for about 24 hours in the field dried up the crop.
- Keeping in view the monsoon season, proper drainage should be arranged in the field where early variety of Cabbage transplanted followed by weeding and hoeing.

- 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 leaves of chilly and tomato are turning black and upper stipe of chilly crop is rotting after turning black then solution of 0.1% Caerbendazim should be sprayed.
- 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 5 days of spraying.
- 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.
- 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 chemicals.

Animal Husbandry:

- After animal's delivery, Gynotone or Utrotone medicine @ 200ml should be given in morning and evening hours for three days to clean the womb.
- Rain water should not be given to the animals.
- To save the animals from infected disease, vaccination should be done before onset of monsoon on the recommendation of veterinarian.
- August month is highly favourable for cattles' delivery. So, it is recommended that their dwelling place should be clean and hygienic.
- Just after delivery, tie the navel of new born baby of cattle by cutting it with sharp and clean knife, then apply Gentian violet paint or tincture iodine.
- Don't leave the animal in the monsoonal rain because this may lead the irritation in the skin of animals.
- Make the necessary arrangements to save the animals during adverse weather.
- Give deworming to the animals on the recommendation of veterinarian.
- Don't give the high dose of green fodder to the horses because high dose of this increase the chances occurrence of Celiac disease.

Dr. R K Singh
Professor & Nodal Officer-GKMS
AMFU- Pantnagar