

ग्रामोभ्युदयादेव देशोभ्युदयः

Govind Ballabh Pant University of Agriculture and Technology

Department of Agrometeorology

College of Agriculture

Pantnagar-263145, Uttarakhand

Phone No. 05944 - 233 032



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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				
	29/07/2017	30/07/2017	31/07/2017	01/08/2017	02/08/2017
Rainfall (mm)	02	05	05	15	25
Max Temp (⁰ C)	33	33	33	31	31
Min Temp (⁰ C)	25	26	25	24	24
Cloud Cover	Dense Cloud	Dense Cloud	Dense Cloud	Dense Cloud	Dense Cloud
Max RH I (%)	90	90	90	95	95
Min RH II (%)	45	45	45	55	55
Wind speed (km/h)	012	008	008	006	012
Wind direction	ESE	ESE	SE	SW	NW

Light to moderate rain may likely to occur from 29th July to 2nd 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 (21 – 27 July, 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	21/07/2017	22/07/2017	23/07/2017	24/07/2017	25/07/2017	26/07/2017	27/07/2017
Rainfall (mm)	13.2	32.4	Trace	Trace	28.4	0.0	1.2
Max Temp (⁰ C)	31.2	33.5	32.0	34.0	32.8	29.5	32.0
Min Temp (⁰ C)	24.2	25.9	27.1	26.5	24.5	26.5	25.0
CC I CC II	Overcast	Dense Cloud	Overcast	Overcast	Overcast	Overcast	Overcast
	Dense Cloud	Overcast	Dense Cloud	Overcast	Overcast	Dense Cloud	Overcast
Max RH I (%)	89	87	85	85	90	90	92
Min RH II (%)	77	85	66	69	83	69	66
Wind speed (km/h)	6.1	7.7	10.3	11.5	8.6	7.5	5.2
Wind direction I	ESE	ENE	ESE	ESE	ENE	Calm	N
Wind Direction II	ESE	ENE	ESE	ESE	ENE	WSW	WNW

Weather Based Agro-Advisories

Crop Management:

- In transplanted paddy, to control the weeds, solution of butachlor (50 EC) @ 3 liter/ 750 liter of water should be sprayed within 3 days of transplanting. *or*
- Bispyribac Sodium 10EC (Nominee gold) @ 200-250 ml /500 liter of water should be sprayed after 20-25 days of transplanting. *or* Metsulfuron-methyl 10% + chlorimuron ethyl 10% WP @ 20g/500liter of water should be sprayed after 20-25 days of transplanting or on the emergence of 3-4 leaves. It controls the broad leaf and motha class weeds.
- 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.
- Short duration Sankul variety of Maize like Kanchan, Gaurav, Surya, Vivek Sankul-11, 31, 35 and Prakash can be sown in this month.
- Weeding and hoeing should be done in the Maize sown in the month of June after 15 and 30 days of sowing and dose of Nitrogen may be given as top dressing when crop attained the height of \approx 2 feet.
- Age of seedlings of Paddy should not be more than 40-45 days for transplanting.
- Before transplanting the seedlings of paddy, roots should be dipped for half an hour in the solution of Carbendazim @ 1g/litre of water.
- Before transplanting, Zinc Sulphate @ 25Kg/ha should be applied in the field.
- To control the broad and narrow leaf weed which appears after 15 days of transplanting of paddy, apply 10EC Vispyaribek sodium @ 200ml/Ha.
- 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 $\frac{1}{2}$ 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, 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.
- 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.
- July 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