

# ग्रामोभ्युदयादेव देशोभ्युदयः

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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				
	12/07/2017	13/07/2017	14/07/2017	15/07/2017	16/07/2017
Rainfall (mm)	40	25	5	5	5
Max Temp ( <sup>0</sup> C)	29	30	33	34	35
Min Temp ( <sup>0</sup> C)	24	25	26	26	26
Cloud Cover	Dense Cloud	Dense Cloud	Cloudy	Cloudy	Cloudy
Max RH I (%)	95	95	90	90	90
Min RH II (%)	65	65	55	55	55
Wind speed (km/h)	008	006	012	012	008
Wind direction	SE	ESE	ESE	ESE	ESE

**Heavy rain may likely to occur on 12<sup>th</sup> & 13<sup>th</sup> July followed by light rain from 14<sup>th</sup> to 16<sup>th</sup> July 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 (4 – 10 July, 2017) are as follows:

Weather Parameter	Udham Singh Nagar						
	04/07/2017	05/07/2017	06/07/2017	07/07/2017	08/07/2017	09/07/2017	10/07/2017
Rainfall (mm)	7.4	6.0	5.6	108.4	32.6	00.0	7.2
Max Temp ( <sup>0</sup> C)	33.2	32.5	30.0	27.0	27.6	34.0	31.5
Min Temp ( <sup>0</sup> C)	26.2	25.9	25.4	24.8	25.6	27.0	26.1
CC I	Obscured	Overcast	Obscured	Obscured	Overcast	Overcast	Overcast
CC II	Dense Cloud	Overcast	Obscured	Overcast	Cloudy	Overcast	Overcast
Max RH I (%)	93	93	95	96	92	90	86
Min RH II (%)	77	85	95	90	65	82	90
Wind speed (km/h)	5.1	5.8	7.5	5.2	3.5	4.9	8.6
Wind direction I	WNW	ESE	ENE	ESE	NNW	ENE	ESE
Wind Direction II	ESE	ENE	E	ENE	ENE	ENE	ESE

## Weather Based Agro-Advisories

### Crop Management:

- 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.
- In Soyabean crop, sown in the month of June, thinning should be done after weeding and hoeing.
- Keeping in view the onset of monsoon, it is advised that proper drainage should be maintained in the field and apply little amount of soil on the surface of the root of sugarcane.
- In maize crop, weeding and hoeing may be done when sky remains clear.
- Late variety of pigeon pea should be sown in the first week of July.
- In case of attack of stem borer in Sugarcane crop, apply Trichogramma chilonis parasite @ 25-30 Tricho card (50000-60000 eggs)/hectare, 8-10 times at the interval of 10 days after 90 days of sowing of sugarcane crop.
- Remove the dried and smut affected plant of Sugarcane from the field and get it burnt outside the field.
- 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:

- Picking up of fruit should be done in the medium variety of Mango and necessary arrangement should be made for their marketing.
- Keeping in the view the occurrence of heavy rainfall, Proper drainage should be made in the Orchard.
- All arrangements should be done for Veneer grafting in Mango Crop and air layering method should be taken for Leechi. Multiplication of Lemon, Pomegranate etc should be done through grafting.
- Field preparation for establishing the new orchard of Mango and Guava should be done.
- In case of occurrence of Cut worm in okra crop during rainy season which destroy the seedlings by cutting, to protect the Okra crop from this insect apply Themate and Furadan@ 10Kg/Ha and 20-25 Kg/ha respectively.
- Use 10-12Kg Okra seed during rainy season after treating it with fungicide with line to line and plant to plant distance 60 and 30 cm respectively.
- Select the Okra variety recommended for rainy season i.e. Uphar, Punjab Padmini, Punjab-1, Punjab-7, Arka, Anamika, Abhay, Parbhani Kranti etc which are resistant to Yellow Vein mosaic disease in Okra.
- 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 5days 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 chaemicals.

#### **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.
- Save the animals from high temperature and rain because it reduces their immunity.
- Rain water should not be given to the animals.
- Small pit near the animal shed should be covered by the soil so that water would not be collected in them to avoid the parasite.
- 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.

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