

# 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 Nainital district are as follows:

| Parameter                | Nainital    |             |             |             |             |
|--------------------------|-------------|-------------|-------------|-------------|-------------|
|                          | 12/07/2017  | 13/07/2017  | 14/07/2017  | 15/07/2017  | 16/07/2017  |
| Rainfall (mm)            | 55          | 40          | 10          | 15          | 20          |
| Max Temp ( $^{\circ}$ C) | 20          | 21          | 23          | 24          | 24          |
| Min Temp ( $^{\circ}$ C) | 14          | 15          | 16          | 16          | 16          |
| Cloud Cover              | Dense Cloud |
| Max RH I (%)             | 95          | 95          | 90          | 90          | 90          |
| Min RH II (%)            | 65          | 65          | 55          | 55          | 55          |
| Wind speed (km/h)        | 008         | 006         | 010         | 010         | 006         |
| 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 moderate rain from 14<sup>th</sup> to 16<sup>th</sup> July 2017 with dense clouded sky.**

According to the observations recorded at India Meteorological Department Observatory located at Nainital (Altitude: 2084 m) during last seven days (4-10 July, 2017), it is observed that state of sky were dense cloudy and 210.0 mm rainfall was received in the region. Maximum and minimum temperature varied between 16.7 $^{\circ}$ C to 22.0 $^{\circ}$ C and 10.0 $^{\circ}$ C to 16.8 $^{\circ}$ C respectively.

### Weather Based Agro-Advisories

#### Crop Management:

- Weeding and hoeing should be done in the paddy field, sown in the last month. After rain or sufficient moisture available in the soil, 1.25 Kg/nali Urea should be given as top dressing in the Chetki/ Jethi variety of Paddy.
- In maize and Soyabean crop, thinning should be taken after weeding and hoeing for removing the weed from field.
- Second hoeing should be done in case of Ramdana and keep the plant to plant distance 15 cm at the time of weeding through thinning.
- If Parnjalak insects appears in Amaranth crop, spray the solution of Methyl-O- demeton or Dimethoate @ 1ml/liter of water or 1.5 ml/liter Quinalphos.

- 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 shoot borer in the sugarcane crop, 20-25Kg/Ha chlorpyrifos should be used before or after the irrigation.

### **Horticultural Management:**

- In case of heavy rainfall, it is advised that proper drainage should be made from the basins of fruit plant.
- Evergreen fruit plants like Mango, guava, Lemon, papaya, Litchi etc should be planted in this month.
- Weeding and hoeing operation may be taken up in the Orchard.
- For grafting of temperate fruits, T-budding or chip budding process should be started.
- To control the gummosis disease in fruit bearing fruit trees, streptomycin 0.01% or copper oxichloride 0.025% should be sprayed at 15 days interval.
- In mid hilly regions, to save the late maturing fruit varieties of apple from falling, plenofix @ 10ppm should be sprayed.
- In hilly regions, if moisture in the soil is more than sufficient, then sowing of radish, rai, coriander, turnip and spinach (Pusa Harit) may be done.
- In unirrigated (rainfed) mid hilly regions, arrangement of the seeds of early variety of pea should be done for sowing them in the mid of August. Seed selected for sowing must be treated before sowing.
- In hilly regions, tomato, Brinjal and Capsicum crop, proper drainage should be maintained in the field during monsoon season and fruit picking should be done timely.
- In plain regions, to prepare the field for nursery of tomato, it is recommended that mixing of Trichoderma @ 1 Kg/Quintal of Compost/vermicompost should be done.
- In plain regions, vegetable seeds should be sown after treating it with Thirum + Carbendazim (2:1) @ 3g/Kg seed rate.
- In place of chemical, biocontrol may be taken for the treatment of seed @10g/ Kg seed rate.
- Nursery should be covered by Insect Proof Net to save the seedlings.
- In plain regions, if seedlings were ready for transplantation of cabbage class vegetables, then transplanting may be taken up in this week.
- To control fruit borer insect in Brinjal and tomato crops, it is advised that spray of Melathiyam may be done @ 15ml/10liter of water during the day time.
- Remove the mulch from the field before start of rain.
- 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% Carbendazim should be sprayed.
- On the rotting and spotting of french bean and cowpea (lobia), Mancozeb @ 2g/liter or Carbendazim 1 g/liter 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 @ 150 ml/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 5 SG @ 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.

### **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 animalshed 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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