

## Agromet Advisory Bulletin for Bandarban District

		
	 <b>Agro-Meteorological Information Systems Development Project</b> <b>Component-C of BWCSR</b> <b>Department of Agricultural Extension</b>	
<b>Date: 29th December, 2019</b> <b>Bulletin No. 106</b>	<b>Agromet Advisory Bulletin for Bandarban District (29th December to 3rd January, 2020)</b>	

### Weather Conditions for last four days (25th December to 28th December, 2019)

Weather Parameters	25.12.19	26.12.19	27.12.19	28.12.19	Range
<b>Rainfall (mm)</b>	0.0	1.0	9.0	0.0	0.0-9.0 (10.0)
<b>Maximum Temperature (° C)</b>	25.0	26.6	26.3	22.0	22.0-26.6
<b>Minimum Temperature (° C)</b>	13.8	13.5	13.5	16.2	13.5-16.2
<b>Relative Humidity (%)</b>	63.0-89.0	36.0-89.0	59.0-95.0	72.0-94.0	36.0-95.0
<b>Wind Speed (km/h)</b>	7.4	7.4	5.6	7.4	5.6-7.4
<b>Cloud Amount (Okta)</b>	1	5	7	3	1-7
<b>Wind Direction</b>	North/North-westerly	North/North-westerly	North/North-westerly	North/North-westerly	North/North-westerly

### Weather forecast as per Bangladesh Meteorological Department for the next 6 days (29th December to 3rd January, 2020)

Weather Parameters	Range
<b>Rainfall (mm)</b>	0.0-18.6 (23.1)
<b>Maximum Temperature (° C)</b>	24.5-27.2
<b>Minimum Temperature (° C)</b>	11.8-17.1
<b>Relative Humidity (%)</b>	59.0-89.0
<b>Wind Speed (Km/h)</b>	4.4-5.2
<b>Cloud Amount (Okta)</b>	Partly Cloudy Sky
<b>Wind Direction</b>	North/North-westerly

## Agromet Advisories

### Salient Advisories

- During next 24 hours night temperature may fall slightly and day temperature may rise slightly over the district and also there is chance of moderate to thick fog may occur during mid-night to morning. As per the quantitative medium range weather forecast, light and moderate rainfall are likely on 2<sup>nd</sup> and 3<sup>rd</sup> January respectively and may increase the humidity. **These may be congenial conditions for incidences of disease infestation in rabi crops especially to potato, tomato for early blight and blast for wheat. Under this circumstance, monitor the standing crops for incidence and spread of diseases. If symptoms are noticed, undertake plant protection measures.**
- Light irrigation during morning hours is advised for the rabi crops (especially in vegetative stages) to avoid effects of frost/ fog on crops. Also smoking is advised in and around the crop field during morning and evening hours.
- Special care should be taken to protect the livestock, poultry, fishes from the cold as night temperature is likely to below normal and also there is a chance fall of minimum temperature during next five day. Keep the animals inside the sheds and provide dry bedding and use heaters inside cattle sheds to protect them from cold.

### Vegetables

- Postpone irrigation.
- Protect young plants of vegetable from low temperature.
- In perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature
- On the occurrence of yellowish brown spot in tomato, spray mancozeb 2.5-3g/litres of water Carry out weeding and hoeing operation in cauliflower and cabbage
- In case of cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to go for spraying of systemic fungicides.
- Protect young plants from low temperature. Remove the stock sprout, suckers and water sprout from budded/grafted vegetable plants.
- Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.

### Boro Paddy:

- Continue seedbed preparation with assured irrigation.
- Remove the dew deposited in the morning hours on seedlings
- Apply light irrigation as there was no rainfall during past few weeks and there is no chance of rainfall during next five days.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm urea per decimal.
- Cover the entire nursery bed in the day time with polythene sheets and remove in the evening to avoid the effect of cool temperatures on germination and growth of nursery. Irrigate the nursery with water in night time and remove water in early morning to speed up nursery growth in cold weather conditions. Drain out excess water from the seed bed of boro paddy, if any. Maintain 2-3 cm water level on seed bed.

### Potato

- Postpone irrigation. In potato field, three irrigations are recommended. First at 25 days, second at 60 days and third at 80 days after planting of the tubers.
- Farmers are advised to do intercultural operations for conserving the moisture and removing weeds.
- Smoking around the field is the preventive measures against the attack of disease pathogens.
- Monitor the incidences of late blight disease periodically as there is chance of the disease due to likely incidence of light to moderate fog over the district during late night till morning. If noticed, prophylactic spraying of Krilaksil or Ridomil MZ chemical @ 1.5 g / liter water is recommended.
- Those who have already planted the crop should adopt mulching by using water hyacinth, straw etc. to enhance the tuber quality and yield.
- One weeding followed by one earthing up in potato crop is advocated during this time. Earthing up is to be done if the crop has attained stolon formation stage (25 days after planting and attained a height of 15-22 cm.
- Due to favourable weather conditions attack of red ant and cut worm may be observed in the potato field. Farmers are advised to apply Phorate 10% granules @ 2kg/bigha or Malathion 5% dust @ 5kg/bigha in the soil at the time of earthing up.

### **Groundnut**

- Undertake intercultural operations after 14-20 days after sowing.
- Postpone irrigation to the plants which are sown 18-20 days back.
- Present weather conditions are favourable for leaf minor and thrips incidence in early sown groundnut. For control of leaf minor to spray chloripyriphos 2.5 ml/l or quinalphos 2 ml/l of water.

### **Horticultural crops**

- Protect young plants of horticulture crops from low temperature.
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- Apply light and frequent irrigation /sprinkler irrigation in the evening to protect the crops from frost / cold injury. To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

### **Livestock**

- Possibility of fall in night temperature, keep the animal under sheds and clean the surroundings to control fly and mosquito in cattle shade. Provide the cattle /animals 50 grams iodized salt 15 and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.
- Due to fall in night temperature and cloudy weather keep the animals under shed. Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.
- Vaccinate and de-worm farm animals at regular intervals in winter season.
- Farmers are advised to give protein enriched diets to the animals. Avoid feeding of paddy straw to prevent liver fluke infection in dairy animals.

## **Poultry**

- Suggested to go for routine vaccination for poultry against the dreaded diseases /virus Vaccination (RDF1) of the one week old chicks against Raniket disease, darkplague and against Gamboro disease in two weeks old chicks may be carried out after consultation with local veterinarian.
- Farmers are advised to protect the poultry from cold injury by keeping the coop clean and dry and use dry paddy straw as litter material and cover the sides of the coop with thick cloths during night.
- Provide artificial brooding to chicks to maintain adequate temperature.
- Arrange light from Bulb 1-2 hours after evening and not to cover the cage by polythene. It favours more production of eggs and reduce the chance of incidences of diseases.

## **Fishery**

Protect the fish population against various bacterial diseases prevalent in winter season; apply Potash @ 4-5 mg/litre of water or Sukrena WS @ 1 litre per bigha of water.

During winter months, fish are under stress and may show symptoms like erratic swimming 11 behaviour, not eating, gasping at the surface and others including mortalities. If such symptoms are observed, immediately stop feeding, liming and manuring. Consult an expert for remedial measures.

Keep pisciculture farm ponds clean. During winter, reduce the amount of food for fishes and provide feed between 2-3PM