

## 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: 1st September, 2019</b> <b>Bulletin No. 72</b>	<b>Agromet Advisory Bulletin for Bandarban District (1st September to 5th September, 2019)</b>	

### Weather Conditions for last four days (28th August to 31st August, 2019)

Weather Parameters	28.08.19	29.08.19	30.08.19	31.08.19	Range
<b>Rainfall (mm)</b>	0.0	0.0	0.0	24.0	0.0-24.0 (24.0)
<b>Maximum Temperature (° C)</b>	33.2	33.8	33.0	34.2	33.0-34.2
<b>Minimum Temperature (° C)</b>	26.4	26.3	27.2	27.8	26.3-27.8
<b>Relative Humidity (%)</b>	63.0-93.0	61.0-93.0	67.0-93.0	70.0-96.0	61.0-96.0
<b>Wind Speed (km/h)</b>	9.2	7.4	3.7	7.4	3.7-9.2
<b>Cloud Amount (Okta)</b>	6	4	6	6	4-6
<b>Wind Direction</b>	South/South-Westerly	South/South-Westerly	South/South-Westerly	South/South-Westerly	South/South-Westerly

### Weather forecast as per Bangladesh Meteorological Department for the next 5 days ( 1st September to 5th September, 2019)

Weather Parameters	Range
<b>Rainfall (mm)</b>	1.1-56.5 (97.6)
<b>Maximum Temperature (° C)</b>	27.2-30.4
<b>Minimum Temperature (° C)</b>	23.7-24.6
<b>Relative Humidity (%)</b>	88.0-97.0
<b>Wind Speed (Km/h)</b>	4.3-8.3
<b>Cloud Amount (Okta)</b>	Cloudy Sky
<b>Wind Direction</b>	South/South-Westerly

## Stages of Standing Crops

Crop	Stage
Aman Paddy	Transplanting almost completed/ early Vegetative Stage
Aus Paddy	Booting to Ripening
Vegetables	Fruit Setting/ Vegetative

### Agromet Advisories

#### Aus Paddy

- Drain out excess water from the crop field.
- Maintain 2-5 cm water level up to hardening of grain.
- Due to high humidity (warm and humid weather) possibility of pest and disease build up is more in crop. Take prophylactic measures accordingly.
- To control of insects like steam borer, gall midge and white & brown hopper apply Corbofuron 3 G@33 kg or phorat 10G @ 10 kg per /hectare and for cut worm Clorpyrifos or Daiclorovash.
- Since cloudy weather is prevailed, there is a chance of leaf folder attack in Paddy. It can be controlled by using Trichogramma cards.
- To save the rice crop from sheath blight, keep the bunds of the field clean by removing grasses.
- To control infestation of leaf blast & leaf spot in Aus rice, spray Carbendazim @2g/litre of water.
- If incidence of rice case worm is noticed on rice crop, then flood the field with water followed by dragging the rope to dislodge the cases and drain out water from field after 1-2 hrs. Collect the cases and destroy them.
- All the above mentioned plant protection measure should be done after the current spell of rainfall.

#### Aman Paddy

- Drain out excess water from the crop field.
- Maintain 5-7 cm standing water up to maximum tillering stage. Impounding condition should not be of more than 7 cm in rice crop. In excess impounding condition, number of tillers is affected.
- Undertake intercultural operations.
- Weeding should be done at regular interval as per requirement. However, first weeding should be done 10-15 days after transplanting. Second weeding should be done 30-35 days after transplanting. Weeding may be done either by hand or using weedicides. 2-4 D Amine or Butachlor may be used for weeding
- Apply 1/3rd nitrogen as top dressing 15-20 days after transplanting and after the current spell of rainfall
- Weeding should be done before application of nitrogeneous fertilizer.
- In the rice crop, continuous monitoring of the economically harmful insects like stem borer, rice hispa, rice caseworm, gall midge should be done. For this light trap should be used. Light trap should be placed at some distance from the crop and bulb should be lightened from evening 06.30 PM to 10.30 PM and collected insects should be destroyed in the morning hours.
- If rice hispa is noticed, delay the first top dressing, manual collection and killing of beetles, the shoot tips can be cut, and then spray Quinalphos at the rate of 0.5 ml per 1 L water after the current spell of rainfall.

- Make proper surveillance of the incidences sheath blight and sheath rot and if noticed, apply appropriate fungicides to control the diseases incidences.
- In low land areas, still there is scope for transplanting the crop after receding water. As there is delay in transplanting, cultivation of BR22, BR23, BRR1 DHAN 38, BRR1 46, Binashail, Nigershal and local varieties may be suitable under such circumstances.
- After receding of flood water, in advance prepare seed bed in high land and also arrange for floating seed bed.

#### **Other Advisories**

1. Complete drain out of excess water from vegetable field.
2. Start cultivating of early winter vegetables after receding of flood water.
3. In order to minimize the impact of recent flood, it is recommended to start necessary preparation to cultivation of rabi crops. It is advised to make arrangements to cultivate short duration mustard (Tori-7, BARI14, BARI15) in the land where hybrid boro rice will be taken during *rabi* season. Advised to collect the maize seed, red amaranth, spinach, green amaranth etc. which can be sown without preparation of field.
4. After receding water from the crop field, it is advised for direct sowing of black gram, green pea and pani kochu.
5. Sow the seeds of oilseeds and pulses after treating the same with recommended fungicides. This will reduce the chance of incidences of foot rot and collar rot.
6. During this time, it is advised to plant fruit trees and medicinal plants. If damaged by floods, fill the gaps by replanting. This year it is necessary to put more soil on the base of the plant, remove the infected portion of the plant, fencing with sticks, and replace the dead plants with new plants and other required activities. Advise for pruning of unwanted parts for mango, jackfruits, litchi. Also clean the leaves of coconut plant.
7. Prevent feeding the livestock with rotten grasses after flood. Instead, feed the animals with concentrate and green grasses along with vitamins and mineral supplements.
8. In flood affected areas of the district, vaccinate domestic livestock like cattle, goat and sheep against BQ, HS, Foot and mouth disease as well as anthrax disease.
9. After flood livestock are generally infected by parasite, therefore, it is important to provide anthelmintic treatment (After consultation with Registered Vety. Practitioner) to the livestock to prevent parasitic infection after flood.
10. There is possibility of muddy water influx from the surrounding areas into the fishery resulting reduction of dissolved oxygen contents. Stirring the water with a bamboo pole will help in increasing the gaseous exchange and protect the fishes from suffocation.
11. Due to recent flood over the zone some of the fish grower faces huge losses. Almost entire stock of fishes has flown out with flood water. After draining out of flood water, farmers should follow the following operations before new stocking in the fish pond, a. Apply lime @ 30 kg per bigha of pond. b. 15 days to 20 days after lime application apply 250-300 kg FYM per bigha of pond. c. If possible provide net around the pond to protect from flowing out with flash flood.
12. Changing weather condition could lead to viral diseases to the birds. So, farmers may provide sufficient water with 1% salt and mineral mixture. Farmers are also advice to clean the sanitary condition of poultry.