

Agromet Advisory Bulletin for Bandarban District

		
	 Agro-Meteorological Information Systems Development Project Component-C of BWCSR Department of Agricultural Extension	
Date: 22nd April 2020 Bulletin No. 139	Agromet Advisory Bulletin for Bandarban District (22nd April to 26th April 2020)	

Weather Conditions for last four days (18th April to 21st April 2020)

Weather Parameters	18.04.20	19.04.20	20.04.20	21.04.20	Range
Rainfall (mm)	28.0	0.0	0.0	0.0	0.0-28.0 (28.0)
Maximum Temperature (° C)	33.4	34.3	33.2	31.6	31.6-34.3
Minimum Temperature (° C)	24.0	19.8	25.6	25.4	19.8-25.6
Relative Humidity (%)	60.0-89.0	72.0-97.0	6.0-96.0	65.0-92.0	6-97
Wind Speed (km/h)	18.5	9.2	7.4	5.6	5.55-18.5
Cloud Amount (Okta)	6	3	6	6	3-6
Wind Direction	South/Southeasterly	South/Southeasterly	South/Southeasterly	South/Southeasterly	South/Southeasterly

Weather forecast as per Bangladesh Meteorological Department for the next 5 days (22nd April to 26th April 2020)

Weather Parameters	Range
Rainfall (mm)	0.0-71.7 (112.0)
Maximum Temperature (° C)	29.4-36.6
Minimum Temperature (° C)	20.8-23.0
Relative Humidity (%)	57.0-93.0
Wind Speed (Km/h)	3.4-5.0
Cloud Amount (Okta)	Partly Cloudy Sky
Wind Direction	South/Southeasterly

Agromet Advisories

Special Agromet Advisories for CORONA virus (COVID-19) transmission in Bangladesh

Due to possibility of dry weather conditions, farmers are advised to do harvesting/threshing of matured wheat, lentil and vegetables crop as soon as possible and keep at safe place. Postpone harvesting where good amount of rainfall is expected. They also advised to apply need based irrigation in late sown wheat crop. During the harvesting of matured crops farmers and all other farm managements are advised to maintain the social distancing (at least 3 meters), cover their faces with masks and follow other guidelines of Government of Bangladesh to avoid infection and social transmission of CORONA virus (COVID-19).

Salient Weather Conditions & Agromet Advisories

As per the weather forecast received from the Bangladesh Meteorological Department (BMD) during next 24 hours, rain/thunder showers with lightning flashes and temporary gusty/squally wind is likely to occur at many places over the district. Day and night temperature may remain nearly unchanged over the district. As per the outlook issued by BMD for next 72 hours, rain/thunder showers activity is likely to continue. During last four days, moderately heavy rainfall (28.0 mm) occurred and as per the quantitative medium range weather forecast, very heavy rainfall (121.0 mm) is likely during next five days. Detail Agromet advisories are given below.

At present avoid application of irrigation, fertilizers, pesticides as well as harvesting of matured crops etc. including draining out excess water from the crop fields. Provide mechanical support to the standing banana and other horticultural crops and also stacking of vegetables. Maintain a good height of embankment around the pond. If possible, provide net or bamboo chatai around the pond to protect from flowing out with heavy rainfall. All the following advisories should be carried after the current spells of very heavy rainfall.

Boro Paddy

Panicle Initiation to Soft Dough

- Maintain 2-5 cm water level.
- Arrange proper solarisation within the row by stirring the plants after each 2 rows.
- Where seedlings are 90-110 days old apply last top dressing with urea and potash
- There is chance of stem borer in rice in the main field. If noticed, the pest may be identified and controlled by using light traps and also constant monitoring is required for its level of incidences. To attract the butterflies, place 5 Pheromone Traps/acre, collect the adults and destroy them by burying under soil or by burning. Also spray Carbofuran @10kg per ha
- Before spray the insecticide, drain out the irrigated water from the plots and
- Increased difference between daily maximum and minimum temperature (diurnal temperature) may favour the infestation of blast in main field as well as in the nursery. At peak tillering stage of the crop there is more chance of this fungal disease. Spray Nativo 75wg/ Trooper@ 0.6g/litre of water or Amister top 325 sp@ 1ml/litre of water
- For brown spot attack spray apply fertilizer management and spray Thiovit+Potash
- Spraying should be done during afternoon hours or at morning hours from 10:00 a.m. to 11:00a.m

- As boro cultivation is going on full swing, it is advised to monitor the incidences of other pests and diseases and take appropriate plant protection measures as advised by the upazila Agriculture Office or Sub-Assistant Agriculture Officer.

Groundnut

- Monitor the incidences of pests (hairy caterpillar, jassid, thrips, leaf miner, spodoptera & termite) & diseases (leaf spot/tikka disease, leaf rust, foot rot/stem rot, collar rot, bud necrosis) and if noticed, take appropriate preventive measure.
- Prevailing weather condition are favorable for tikka leafspot in groundnut. To control spray with hexaconazol @2ml. or carbendazim @1 g. per litre of water.

Vegetables

- Prevailing weather conditions are favorable for thrips & aphids in chilli. Spray Emamectin benzoate 5% SG 4 g/10 litre or Dimethoate 30 % EC 1.0 ml/litre for the control of thrips & aphids.
- Intercultural operation is advised in early sown onion/garlic crop. Provide light and frequent irrigation at an interval of 10-15 days as per requirement.
- For the management of stem and fruit borer in brinjal crop, it is advised to install 10 Pheromone trap in one acre
- Avoid moisture stress conditions to the crops which are at flowering to fruiting stage.
- Considering the increase in temperature, apply light irrigation in standing crops and vegetables as per requirement.
- There is chance of blight disease in tomato and brinjal which are at fruiting stage. Apply Streptocyclene@3g/10 liter of water.
- Because of increase in temperature, there is chance of sucking pest in vegetable crops. To control, application of 2% neem oil emulsion once in a week or spray of Lecanicillium lecani at 20 g per litre of water is advised.

Horticultural crops

- Due to continuous dry spell, there are chances of termite attack in horticulture, forestry tree and shrubs. Hence, to control apply Aldrin termiticides for termites.
- Farmers are advised to keep vigilance on insect-pest and diseases and follow proper weed control measures and cover fruit seedling with rice straw (parali)/thatches in nursery.
- Prevailing weather condition is favorable for black headed caterpillar incidence in coconut. To control, it is advised to spray the under surface of the fronds with Dichlorovos 100EC 0.02%, Malathion 50 EC 0.05% @ 1ml/litre.
- Prevailing weather condition is favorable for canker disease incidence in citrus. To control, spray of Streptomycin sulphate 500-1000 ppm or Phytomycin 2500 ppm or Copper oxychloride 0.2% at fortnight interval is advised.
- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.
- The prevailing weather conditions are favorable for incidence fruit fly in mango. Farmers are advised to keep Methyl Uzanol traps @ 6-7 /acre to trap the fruit fly

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- Continue sowing of seeds.

Livestock

- Farmers are advised to keep the floor of the animal habitation dry to avoid hoof infection and to prevent fly breeding.
- Vaccinate (ET vaccine) sheep and goats against Enterotoxemia. Proper ventilation should be maintained for free circulation of air in the sheds
- Feed 50-60 grams of mineral mixture to pregnant animals every day to boost their immunity.
- Provide green fodder and clean fresh water to cattle twice a day.

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.
- It is advised to align the long axis of poultry shed in east-west direction. This will prevent the direct sunshine over the birds.
- Regularly inspect the droppings of the poultry bird for any disease symptoms and immediately separate/remove the diseased and dead birds from the healthy ones.

Fishery

- Because of increase in temperature, it is advised to add cow dung and lime or rice bran and mustard cake in the pond as a natural food for fishes @ 5 kg/day/ acre area of pond.
- Feed the major carp with rice bran and ground nut oil cake at 1:1 ratio at the rate of 5 % of body weight
- Maintain 1 to 1.5mt average depth of water in the pond.
- As the temperature is rising, farmers can start feeding their fishes with available fish feed or they can feed their fishes with a mixture Rice bran and MOC in 1:1 ratio @3% of body weight of the total biomass in their ponds.
- To avoid bacterial disease liming should be done at appropriate dose.