

Agromet Advisory Bulletin for Feni District

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|  |  Agro-Meteorological Information Systems Development Project Component-C of BWCSR Department of Agricultural Extension |  |
| Date: 15th March 2020 Bulletin No. 128 | Agromet Advisory Bulletin for Feni District (15th March to 19th March 2020) | |

Weather Conditions for last four days (11th March to 14th March 2020)

| Weather Parameters | 11.03.20 | 12.03.20 | 13.03.20 | 14.03.20 | Range |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Rainfall (mm) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0-0.0 (0.0) |
| Maximum Temperature (° C) | 32.0 | 33.5 | 35.0 | 35.1 | 32.0-35.1 |
| Minimum Temperature (° C) | 16.8 | 18.8 | 20.2 | 19.5 | 16.8-20.2 |
| Relative Humidity (%) | 29.0-95.0 | 32.0-92.0 | 32.0-85.0 | 29.0-87.0 | 29-95 |
| Wind Speed (km/h) | 1.9 | 1.9 | 1.9 | 3.7 | 1.85-3.7 |
| Cloud Amount (Okta) | 0 | 0 | 0 | 1 | 0-1 |
| Wind Direction | West/North westerly | West/North westerly | West/North westerly | West/North westerly | West/Northwesterly |

Weather forecast as per Bangladesh Meteorological Department for the next 5 days (15th March to 19th March 2020)

| Weather Parameters | Range |
|----------------------------------|--------------------|
| Rainfall (mm) | 0.0-0.3 (0.3) |
| Maximum Temperature (° C) | 33.6-34.5 |
| Minimum Temperature (° C) | 15.6-20.3 |
| Relative Humidity (%) | 37.0-93.0 |
| Wind Speed (Km/h) | 2.4-3.3 |
| Cloud Amount (Okta) | Partly Cloudy Sky |
| Wind Direction | West/Northwesterly |

Agromet Advisories

Salient Weather Conditions & Agromet Advisories

As per the weather forecast received from the Bangladesh Meteorological Department (BMD) during next 24 hours, weather may remain mainly dry with partly cloudy sky elsewhere over the district. Day and night temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for next 72, day and night temperature may rise.

During last four days, dry condition prevailed over the district and as per the quantitative medium range weather forecast, dry condition is likely over the district during next five days. However, some amount of rainfall is expected on 20th & 21st March.

Boro Paddy

Recovery to Panicle Initiation Stages:

- Alternate wetting and drying maintain water level 5-7 cm upto the appearance of panicle. Maintain 2-5 cm water level in panicle initiation stage
- Keep the field and irrigation channel weed free
- Apply one weeding. Complete one hand weeding before top dressing. Weeding may be done at 20 and 40 days after transplanting of seedling in the field.
- 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 for its control.
- Before spray the insecticide, drain out the irrigated water from the plots.
- 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 Nativio 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
- All the plant protection should be done after 21st March.

Wheat

Soft to Hard Dough stage

- If not done, apply last & third need based irrigation after 21st March and after 75-80 old plant during grain formation. Also drain out excess water from the field.
- Monitor the incidences of pests (stem borer, aphid, jassid, cutworm, and rat) & diseases ((blast, leaf rust, leaf blight, brown spot, foot rot and powdery mildew) and if noticed, take appropriate preventive measure.
- Special monitoring of blast disease is required. If noticed, apply Nativio 75 WG 6 gm/decimal to control the disease.

- For the treatment of rust disease of wheat apply Hexaconazol@1ml/litre water or Tebuconazol/Carbendazim @ 1ml/litre water.
- To control cutworm in wheat crop, apply Carbofuran @ 20 kg/ha or Chlorpyrifos @ 5ml/L water at 15 days interval.
- For control of aphids in wheat undertake spray of Malathion group @ 2ml. per litre water.
- To control Alternaria blight, spraying of Iprodione @2 g / L of water group pesticide is advised.
- Monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, application of the mixture of 20kg sand with Chlorpyrifos group pesticide is suggested in the evening hour and thereafter irrigation is advised.
- All the plant protection should be done after 21st March.

Lentil

- Undertake harvest of matured earlier sown lentil. Collect the crop at morning to reduce shattering losses.
- There is chance of incidence of Stemphylium blight under the present weather condition. If noticed, spray of Iprodione/ Tebuconazole or mixture of these two fungicides @ 2 g / liter of water 3-4 times with 7 days' interval and.
- Looking to the weather condition there is possibility of infestation of pod borer. Hand picking followed by burning of the infected parts should be done for its control.
- To protect the pulse grains from storage pests, application of oils of castor/linseed/honge/neem oil @ 3-5 ml per kg of grains is advised.
- All the plant protection should be done after 21st March.

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.
- All the plant protection should be done after 21st March.

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.

- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.
- Wherever flowering is delayed in mango, farmers are advised to give irrigation and spray potassium nitrate 10 g and Urea 5 g per litre of water to enhance the flowering.
- avoid moisture stress conditions to the crops which are at flowering to fruiting stage.
- Apply coir compost to conserve moisture in banana.
- Young banana plants of 3-4 months' age are prone to attack of pseudostem weevil; spray Chlorpyrifos 2 ml/litres of water.
- There is a chance powdery mildew disease incidence before flowering and after fruit formation in mango. To control, spraying of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water is advised.
- To protect mango plants from mealy bug, spray Imidacloprid 17.8 SL @ 1 ml /3 litres of water
- Mango is in tender fruiting stage and there is chance of hopper attack.If noticed, apply a mixture of Diethane M-45@2.5g/liter of water and Dimethoate@1.5ml/liter of water.
- Coconut harvested during November can be sown in nursery bed for raising seedling. Nuts should be placed horizontally with widest of the three segments upward which helps in germination and healthy growth of seedlings. In 1m wide nursery beds, the nuts should be placed at a spacing of 30cm x 30cm.
- All the plant protection should be done after 21st March.

Jute:

- Land is to be ploughed and laddered 5-6 times to obtain a fine seed bed. In termite and cricket infested fields, the soil is to be treated with malathion 5% dust @ 30 kg/ha after 21st March.
- After 21st March, if there is enough soil moisture, start sowing of seeds.

Livestock

- Provide sufficient clean drinking water to animals. Contact departmental personnel for vaccination.
- Keep the animal shed clean and dry.
- Green fodder mixed with dry straw should be provided for feed.
- In case of skin disease, dairy farmers are advised to mix zinc oxide and vaseline in equal proportion and apply on affected parts.
- Keep away mosquitos from animal shed by suitable technique.
- At this time goat may be attack by Blister disease which is generally a viral disease that affect any age group of goat. The disease may be seen particularly in the facial/ nasal area. To protect from the disease wash with Potassium per manganate (PP) and consult nearby Veterinary Dispensary for anti-biotic cream and further treatment.
- Feed mineral especially calcium and vitamin supplement to the dairy cattle to have good productive and reproductive performance

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.
- 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.