


Agromet Advisory Bulletin for Bandarban District

		
		
<p>Agro-Meteorological Information Systems Development Project Component-C of BWCSR Department of Agricultural Extension</p>		
Date: 11th October 2020 Bulletin No. 188	Agromet Advisory Bulletin for Bandarban District (11th October to 15th October 2020)	

Weather Conditions for last four days (07th October to 10th October 2020)

Weather Parameters	07.10.20	08.10.20	09.10.20	10.10.20	Range
Rainfall (mm)	0.0	0.0	51.0	51.0	0.0-51.0 (102.0)
Maximum Temperature (° C)	33.0	33.6	35.4	35.0	33.0-35.4
Minimum Temperature (° C)	26.0	26.3	28.4	26.0	26.0-28.4
Relative Humidity (%)	62.0-96.0	62.0-88.0	55.0-97.0	66.0-91.0	55-97
Wind Speed (km/h)	5.6	13.0	5.6	5.6	5.55-12.95
Cloud Amount (Okta)	5	5	4	6	4-6
Wind Direction	South/South-easterly	South/South-easterly	South/South-easterly	South/South-easterly	South/South-easterly

Weather forecast as per Bangladesh Meteorological Department for the next 5 days (11th October to 15th October 2020)

Weather Parameters	Range
Rainfall (mm)	2.0-9.9 (30.5)
Maximum Temperature (° C)	31.3-33.1
Minimum Temperature (° C)	22.6-23.6
Relative Humidity (%)	65.0-97.0
Wind Speed (Km/h)	1.6-2.3
Cloud status	Partly Cloudy Sky
Wind Direction	South/South-easterly

Agromet Advisories

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

Farmers and all other farm managements are advised to follow the guidelines of Government of Bangladesh to avoid infection and social transmission of CORONA virus (COVID-19). Precautions and safety measures should be taken up to prevent the Carona virus spread. Simple measures include social distancing, maintaining personal hygiene by washing hands with soap, wearing of face mask, drink hot water, stay at home and cleaning of implements and machinery. Farmers should not work in a group; consult with a doctor in case of any symptom. Please stay at home does not visit the field until it is very necessary.

Salient Weather Conditions & Forecast

The low over North Andaman Sea and adjoining area now lies over Eastcentral Bay & adjoining area as a well marked low. It is likely to intensify further. Trough of low lies over Bihar to Assam across West Bengal & Bangladesh. Monsoon is less active over Bangladesh and weak to moderate over North Bay. As per the weather forecast received from the Bangladesh Meteorological Department (BMD) during next 24 hours, light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over and weather may remain mainly dry with temporary partly cloudy sky elsewhere 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, little change is likely. And as per the Extended outlook for another five days, no marked change is likely. During last four days, trace to heavy rainfall occurred and as per the quantitative medium range weather forecast, light rainfall is likely during next five days. Detail Agromet advisories are given below.

General Agromet Advisories: At present Southwest Monsoon is in withdrawal phase. The withdrawal line of the Southwest Monsoon continues to pass through Lat. 28°N/ Long.83°E, Faizabad, Fatehpur, Nowgong, Rajgarh, Ratlam, Vallabh Vidyanagar, Porbandar, Lat. 21°N/ Long.65°E and Lat. 21°N/ Long.60°E. Due this weather feature, rainfall intensity will decrease progressively. As light rainfall is likely during next five days, apply irrigation to all the standing crops including vegetables where light irrigation should be applied.

Aus Paddy

Ripening to Harvesting stages

- Drain out water from crop field 15 days before harvesting.
- Harvest the matured crop in sunny weather while 80% rice ripen.
- Harvest and dry well the grains in sunny weather (12% moisture contain e.g teeth testing) and keep it shady condition for cooling and finally store it air tight container.

Aman Paddy

Panicle Initiation to Hard Dough stages

- The maximum water utilization for rice crop is in panicle initiation stage (amount 25% of total water requirement of crop.) Due to shortage of water crop production may severely affected. Therefore farmers are advised to go for impounding field with required level of water.
- Provide irrigation & keep the rice land up to 3-4 inches water from panicle initiation to hard dough stage.

- Due to occasional rain there is chance of attack of Yellow stem borer in Aman rice; to manage the attack, spray Carbofuran @10kg per ha if there is 5% dead tiller or 1% dead inflorescence.
- Where luxurious growth of plants, at tillering stage, is found ,there is chance of sheath blight attack may take place due humid weather and water stagnation. Spray Hexaconazol @ 1ml//litre water, or Tebuconazol @ 1ml/litre water. Regular inspection should be continued for disease attack observation
- There is chance of considerable BLB attack due to high temperature and humidity, As the spore spread by air and water, drain out all the water, if any, and apply potash fertilizer. Follow community spraying otherwise infection cannot be controlled.-To control the disease it is advised to make fertilizer management and spray Thiovit+Potash. Avoid excess urea application.
- Where Tillering is complete and panicle has started,apply one hand weeding inside the field and also in the bund area, to make ensure proper solarisation inside the row.
- Where Tillering is complete and panicle has started there is chance of attack of leaf roller
- Spray Malathion @ 2ml. per litre water or Chlorpyriphos@2ml/liter of water or Endosulfun@1.5ml/liter of water.
- There is a chance of attack of leaf folder /rice hispa in seedling and tillering stage. If there is one damage leaf per hill due to attack of leaf folder or appearance of one adult hispa per hill is observed, the farmers are advised to spray Chloropyriphos 20EC or Monocrotophos 40EC @ 1.5ml per litre of water.
- There is chance of Gandhi bug and Brown plant hopper attack. For Gandhi bug spray Carbaryl 50 WP@2g/liter of water. Avoid excess irrigation in the field otherwise base will be rotten. Where early transplanted paddy found 80% maturity, harvest and transfer it to safe place immediately. Spray Buprofezin 25% SC@106ml/bigha for BPH attack. Maintain proper distance within the farmers during spraying.
- Light trap should be used for control of insects. 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.

Vegetables

- **Cucumber:** Apply 18 kgs Urea/bigha at around 20-25 days after sowing of the plants. If you notice Irregular brown spots on the leaves, sometimes with yellow edges, it may be Alternaria Leaf Blight. Spray Tricyclazole 75WP @ 0.6 ml per liter of water at clear weather condition
- There is chance of fungal wilting due to heavy rain and high humidity in early winter vegetables. Drain out water from field. During clear weather drenching the soil around the base with Streptocyclin@0.1g/liter of water.
- **Brinjal:** Bacterial wilting- Wilting starts at the top when the plant starts flowering and fruit setting and eventually the whole plant shows wilt symptoms Cure: Infected plants must be eradicated. Roots of the seedlings must be treated (2.5gm carbendazim + 2 ml Teramycin capsule/litre water) before planting. Bleaching powder (3kg/acre) can be applied with irrigation water
- **Tomato: Late Blight:** Water-soaked lesion is seen in edges of leaves. Later on, leaves dries up. Nowadays late blight is first seen in the stem then it spreads to the leaves. Cure 1) Precaution must be taken during the initial infection stage. 2) Spray 2.5-gram Metalaxyl + Mancozeb/lit of water 3) Mix 3 gram Trichoderma with per kg of seed during seed treatment. 4) Avoid excess nitrogen fertilizer and close spacing of plants

- **Bitter gourd & Pointed gourd:** At vegetative growth and under the present weather condition, attack of Downy mildew may be seen in the field. Mancozeb or Chlorothalonil 2 g/lit twice at 10 days interval may be sprayed to manage the attack.
- **Cabbage/Cauliflower:** Downy mildew: First brown spot appear in the lower side of the leaves, and the upper side of the infected portion becomes yellowish. Later on, the spots enlarged and destroy the whole leaf. This disease is present in seeds and other parts of the leaves. Cure: 1) Mix 3-gram Thiram with per kg of seed during seed treatment. 2) Spray 2.5 gram Metalaxyl + Mancozeb/lit of water
- **Winter/Rabi vegetables:** Good drainage for seedbed and direct-seeded plots, 2) Adapting raised seedbed practice, 3) Use systemic fungicide Thiophanate methyl 70 % WP @2 gram/lit with a sticker to avoid fungal diseases
- Apply light irrigation.

Horticultural crops

- Farmers are advised to go for inter cultural operations in mango orchard.
- The farmers are advised to take up plant protection measures carefully in horticultural crops like, pomegranate for bacterial blight and lime for leaf minor.
- The current weather is congenial for fruit blight and fruit rot disease in pomegranate, to control, spray Mancozeb 600g and Carbendazim 100 g @ 200 litre of water. To control thrips in pomegranate, spray Spinosad 2.5 SC @ 10 ml per 10 liters of water.
- Use fruit fly trap to control fruit fly damage in guava orchards and cucurbits. Farmers are advised to remove foot rot infected plants from rice field and avoid ponding of water to check further spreading of infection.
- To control fruit blight and fruit rot disease in pomegranate, spray Mancozeb 600g and Carbendazim 100 g @ 200 litre of water

Banana

- Rake up the accumulated mud from the root zone of banana for better aeration.
- Plantation of banana crop should be done
- Due to monsoon showers, there is a chance of Sigatoka disease in banana. Cut and burn all severely affected leaves. Spray 1% Bordeaux mixture with sticker soon after the appearance of symptoms (5 to 6 sprays at fortnightly intervals). Spray 1% petroleum based mineral oils. Spray 0.1% carbendazim or 0.2% Mancozeb alternatively @ fortnightly intervals. Spray Azoxystrobin, Tebuconazole, Difenconazole (0.1%).
- There is a chance of erwinia rot in banana due to heavy rainfall in this season. As a precaution, apply lime in the banana basin or bleaching powder in the irrigation channels. To enhance the disease resistance, drench the basin with Pseudomonas @ 20g per litre of water. Affected plants can be protected by drenching the basin with 5 g bleaching powder or 3 g Copper oxychloride or 2g Copper hydroxide per one litre of water
- Severely affected plants should be cut and removed to prevent the spread of disease

Beetle vine:

- Strengthen the fencing of boundary of betel vine so that the boundary cannot be broken due to strong wind and thunderstorm.
- No spraying of copper fungicide for control of foot and root rot should be given until all the water will removed
- Keep the drainage channels clean and arrange proper aeration in the betel vine gardens.
- Pluck muddy leaves from the lower parts of betel nut plants.
- Farmers can continue to plant the cuttings of betel vine in the main field. Select disease free cuttings and before planting treat them with Bordeaux mixture 0.5% and Streptocycline 500 ppm for half an hour. Before planting, drenching of soil with Mancozeb 75 WP (2.5 gram per litre of water) is advocated.
- In this time and under the prevailing weather, foot rot and stem rot diseases affected plants start to die. So, affected plants and its branches have to deposit in particular hole or burning and never deposit beetle vine waste in irrigated water sources like channel /pond.
- Apply irrigation.

Cotton

- Continue sowing of cotton
- Complete seed sowing at tith conditioned land considering seed rate 2 kg/33 decimal.
- Maintain row to row distance 25-35 inches and seed to seed distance 10-15 inches.
- High yielding varieties like CB-12, DM-2, Rupali and Suvro may be chosen for sowing.
- As there is a forecast of humid weather conditions, there may be increase in population of insect pest of cotton. Farmers are advised to install pest specific pheromone traps in the fields for monitoring the insect. If sucking pest's population is above ETL, spraying of Imidacloprid 17.8 % SC @ 1.0 ml / 3 litre or Trizophos 40 EC @ 1.0 ml/litre of water is advised against all type of borers after the current spell of rainfall.
- Due to variable weather conditions, high humidity and favourable temperature for the chances or infestation of white fly. Farmers are advised to keep vigil on leafhopper, thrips white fly infestation. If infestation of white fly above to the economical threshold level (ETL) than 400 ml dimethoate (rogor) 30 E.C. or 500 ml oxydemeton-methyl 25 E.C. (metasystox) spray of 1 liter Nimbecidine mixed with 250 liter water per acre, when sky remain clear.
- For control of leafhopper infestation the spray 40 ml imidacloprid (Confidor) 200SL mixed with 120-150 liter water per acre, during clear weather.
- Apply irrigation.

Livestock

- Hygiene should be maintained around cattle shed. Avoid water logging in cattle shed.
- Protect cattle from sun.
- Vaccinate the livestock for Black Quarter and foot and mouth diseases.
- It is very important to provide a particular amount of dewormers for both roundworm and tapeworm to any cattle, goats,
- To prevent the livestock from worm infestations, it is advised to give Piperzine or Mebendazole at recommended dose after proper consultation with veterinary doctor.
- Goats may be affected with viral enteritis. As and when diarrhoea is noticed, immediate treatment should be done at the veterinary dispensary and do not allow the goats to graze outside.
- Always allow them to graze in dry land area.

Poultry

- There is chance of fungal attack due to high humidity, keep the poultry house dry and clean and apply lime with litter
- In poultry farms, appropriate space should be kept @ 1 sq. ft. per broiler and 2-2.5 sq. ft./ layer.
- Follow proper vaccination at proper interval
- There is chance of Raniket, gumbra diseases in poultry; provide antibiotic drugs through water or through feed. Protect the birds from wet weather and wet floor.
- Spray water on poultry shade during hot weather condition. Viral ganboro disease infection may be high due to high temperature and humidity. Early cautionary and vaccination are prevented measures.

Fishery

- Apply lime for cleaning the water.
- Sufficient water accumulated in the pond. Start new stocking of quality fingerlings/ yearlings. Feeding may be done properly with quality and floating feed containing 20 percent crude protein. There is chance of oxygen deficiency due to increase in temperature. To maintain the dissolve oxygen regular aeration may be done using hand or bamboo splashing or using mechanical aerator
- To avoid insect infestation in nursery ponds, apply soap oil emulsion (a mixture of cheap soap @ 2.5 kg and kerosene oil @ 13 litter per bigha of pond) and apply gently in nursery ponds
- Remove the unwanted fishes and predator by repeated netting before leaving the new fingerling in the fish pond.
- Select healthy, diseases free breeds of fishes from authentic sources after consulting with fishery officials. Before releasing, the fingerlings should be treated with Potassium permanganate (@ 3-5%.
- To keep in touch with local fisheries office for more information.