





## Agromet Advisory Bulletin for Khulna District

		
		
<p><b>Agro-Meteorological Information Systems Development Project</b>  <b>Component-C of BWCSR</b>  <b>Department of Agricultural Extension</b></p>		
<b>Date: 18th December 2019</b> <b>Bulletin No. 103</b>	<b>Agromet Advisory Bulletin for Khulna District (18th December to 22nd December 2019)</b>	

### Weather Conditions for last four days (14th December to 17th December 2019)

Weather Parameters	14.12.19	15.12.19	16.12.19	17.12.19	Range
<b>Rainfall (mm)</b>	0.0	0.0	0.0	0.0	0.0-0.0 (0.0)
<b>Maximum Temperature (° C)</b>	27.5	27.0	26.0	25.5	25.5-27.5
<b>Minimum Temperature (° C)</b>	17.0	17.4	17.0	17.4	17.0-17.4
<b>Relative Humidity (%)</b>	51.0-98.0	58.0-98.0	58.0-95.0	61.0-95.0	51-98
<b>Wind Speed (km/h)</b>	0.0	0.0	0.0	0.0	0.0-0.0
<b>Cloud Amount (Okta)</b>	0	0	1	3	0-3
<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 5 days (18th December to 22nd December 2019)

Weather Parameters	Range
<b>Rainfall (mm)</b>	0.0-0.0 (0.0)
<b>Maximum Temperature (° C)</b>	9.2-25.5
<b>Minimum Temperature (° C)</b>	10.8-12.7
<b>Relative Humidity (%)</b>	38.0-58.0
<b>Wind Speed (Km/h)</b>	2.5-3.4
<b>Cloud Amount (Okta)</b>	Clear Sky
<b>Wind Direction</b>	North/North-Westerly

## Stages of Major Standing Crops

Crop	Stage
Aman Paddy	Hard dough to Harvesting
Vegetables	Sowing/Harvesting Fruit Setting/ Vegetative

### Agromet Advisories

#### General Advisory:

Night temperature may fall by (1-3)° C and day temperature may fall slightly over the country. Light to moderate fog may occur over the district during late night till morning. Under this circumstance, monitor the standing crops for incidence and spread of pest & diseases. If symptoms are noticed, undertake plant protection measures. Special care should be taken to protect the livestock, poultry, fishes from the cold as there is a chance fall of temperature during next five days.

#### Aman Paddy

##### Harvesting Stage

- Remove water from the field completely 15 days before harvesting.
- Where 80% grain found mature harvest the crop after draining water as sunny weather will prevail. At the time of harvesting, pick the black earhead (affected earhead with false smut disease) and destroy them by burning.
- Sundry the harvested paddy and carry out threshing and store it in safe place.
- To protect the matured grains of aman rice from the attack of rodents, prepare dry poison baits by mixing atta/wheat bran/maize crush 80g, gur 10g, dry fish 5g & Zinc Pohosphide 5g; & apply alongside the bunds for controlling field rat.
- Sowing of khesari can be done as relay crop in upland area before harvest of aman paddy.

##### Hard dough to Ripening Stage

- As there was no rainfall relatively for extended period and there is no chance of rainfall for next five days, apply irrigation & 2-5 cm water level should be maintained at booting to hardening of grain stages.
- Continuous monitoring of the economically harmful insects like stem borer, leaf roller, sheath blight, blast, brown spot, leaf blight, Gandhi bug, Brown Plant Hopper (BPH) should be done. Monitoring at 2-3 days interval is advised. 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. Since fair weather is predicted in the coming 5 days, farmers can continue spraying of insecticides/ fungicides in the field.
- Weather is congenial for multiplication of brown plant hopper in rice. If noticed, spray Isoprocarb or MIPC@ 175gm/bigha or Pimetrogen 67gm/bigha or Chloropyripho 134ml/bigha at the base of the stem.
- For management of blast disease in paddy at booting stage, carry out alternative wetting and drying without cracking of the soil. Spray Nativo 75wg/ Trooper@ 0.6g/litre of water or Amister top 325 sp@ 1ml/litre of water. Spraying should be done after 3 PM so that disease can be effectively controlled. The spray should be repeated after 10-12 days as per intensity of the disease.

- As there is no possibility of getting rainfall in the coming 5 days during dough to milky stage, there is chance of incidences of Gandhi bug & BPH. For BPH Spray Isoprocarb @ 2.5g per litre water or Imidachloprid @ 2.5g per litre water. For Gandhi bug Spray Malathion @ 2ml. per litre water or Chlorpyrifos @ 2ml. per litre water. Holding fires around the field in the night hours also reduce Gandhi bug population.

### **Vegetables**

- As there was no rainfall relatively for extended period and there is no chance of rainfall for next five days, apply adequate irrigation to moist the soil in the vegetable field.
- Complete transplanting of brinjal, tomato, chilli, late sown cauliflower and cabbage.
- To control leaf curl disease in tomato, spray Rogor @ 1 ml per litre of water to control the leaf curl disease in tomato crop which is transmitted by an insect vector.
- Since there is no possibility of getting rainfall in the coming 5 days spray Captan 50 WP 0.2% (@ 2 g/lit. of water) to control Fruit rot or anthracnose disease in the chilli crops.
- 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.
- Monitor the standing crops for incidence and spread of pest & diseases and monitor tomato and potato crops for early blight disease. If symptoms are noticed, undertake plant protection measures.

### **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.
- Arrangement for polythene may be made as this may be required to cover the seedbed during sudden drop in temperature during this season.

### **Lentil**

- Apply light irrigation
- Intercultural operation i.e. weeding should be done once within 30-35 days after sowing of seeds.
- There is chance of incidence of Stemphylium blight under the present weather condition. If noticed, spray Rovral 50 WP or Phalikur 250 EC or mix both the fungicides and mix with water @ 2% three to four times after 7 days interval under light sunny condition in the morning hours between 9-10 am.

### **Horticultural crops**

- As there was no rainfall relatively for extended period and there is no chance of rainfall for next five days, apply adequate irrigation to young fruit plants.

- Farmers are advised to go for bagging of the banana bunches with muslin cloth or polyethylene before fruit set in order to protect the fruits from the attack of banana fruit and leaf scarring beetle.
- As dry condition will prevail during next five days, apply irrigation to banana plants 15-20 days interval.
- Weather is congenial for sigatoka disease in banana, cut and remove the severely affected leaves and apply Mancozeb (Indofil M 45) @ 2.5 g/lit or Propiconazole 1ml/ litre of water followed by 4 sprays at 30 days interval.

## **Livestock**

- Night temperature has started falling/ will fall in the district; farmers should make proper arrangements to protect their milch animals and their young ones from morning/evening cold by covering them with gunny bags during night and ample exposure to sunlight during day time to avoid pneumonia.
- Suggested to go for routine vaccination for livestock against the dreaded virus like tarka, khura and PPR.
- The floor and dairy shed should be cleaned with suitable antiseptic solution and maintain a proper sanitation.
- Keep animal shed clean and de-worm domestic animals. For Foot and Mouth disease, wash the wound with potassium permanganate solution.

## **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.
- Clean poultry shed twice in a week.
- Prevent the chicks from chilled wind directly by use of gunny bag or plastic curtains hanging in the side walls
- 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.