

## Agromet Advisory Bulletin for Rajshahi District

		
	 <b>Agro-Meteorological Information Systems Development Project</b> <b>Component-C of BWCSR</b> <b>Department of Agricultural Extension</b>	
<b>Date: 21th August, 2019</b> <b>Bulletin No. 69</b>	<b>Agromet Advisory Bulletin for Rajshahi District (21th August to 25th August, 2019)</b>	

### Weather Conditions for last four days (17th August to 20th August, 2019)

Weather Parameters	17.08.19	18.08.19	19.08.19	20.08.19	Range
<b>Rainfall (mm)</b>	19.0	1.0	0.0	1.0	0.0-19.0 (21.0)
<b>Maximum Temperature (° C)</b>	31.3	33.7	34.3	34.6	31.3-34.6
<b>Minimum Temperature (° C)</b>	25.3	26.4	26.3	27.0	25.3-27.0
<b>Relative Humidity (%)</b>	81.0-98.0	65.0-97.0	68.0-98.0	67.0-98.0	65.0-98.0
<b>Wind Speed (km/h)</b>	1.9	5.6	3.7	1.9	1.9-5.6
<b>Cloud Amount (Okta)</b>	6	5	5	5	5-6
<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 (21th August to 25th August, 2019)

Weather Parameters	Range
<b>Rainfall (mm)</b>	0.0-19.2 (23.5)
<b>Maximum Temperature (° C)</b>	33.1-34.3
<b>Minimum Temperature (° C)</b>	25.9-26.3
<b>Relative Humidity (%)</b>	67.0-95.0
<b>Wind Speed (Km/h)</b>	4.6-6.5
<b>Cloud Amount (Okta)</b>	Clear Sky

<b>Wind Direction</b>	South/South-Westerly
-----------------------	----------------------

### Stages of Major Standing Crops

Crop	Stage
Aman Paddy	Transplanting almost completed/ early Vegetative Stage
Aus Paddy	Tillering to Harvesting
Vegetables	Sowing/ Fruit Setting/ Vegetative

### Agromet Advisories

#### Aus Paddy

#### Maturity to Harvesting Stage:

- Harvest the crop on sunny days & keep it in safe and dry places.
- Drain out water from the fully matured crop field 15 days before harvesting.

#### Panicle Initiation to Ripening stage:

- Apply irrigation & 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.

#### Aman Paddy

- Apply irrigation & maintain 5-7 cm standing water up to maximum tillering stage.
- 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 on non rainy days..
- Make proper surveillance of the incidences of the stem borer, rice hispa, rice caseworm, gall midge as well as sheath blight and sheath rot and if noticed, apply appropriate insecticides/fungicides to control the pests & 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, Nigershail and local varieties may be suitable under such circumstances.

### **Vegetables**

- Make arrangement to avoid plant damage (particularly staked creeper) from anticipated gusty winds.
- If seedlings of brinjal are ready for transplanting, transplant the seedlings on ridges and furrow with spacing of 60 x 60 cm. sowing of kharif vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd.
- Weed management should be done in brinjal, tomato, lady finger and cauliflower.
- Need based intercultural operations should be done in tomato, brinjal, chilli, okra and other vegetable crops.
- In pumpkin, ridge-gourd, pointed gourd and cucumber, there is a chance of attack of Red-Pumpkin Beetle during current weather condition. To control, apply Dimecron or rogor (1ml per litre of water).
- The prevailing weather conditions are congenial for incidence sucking pests in vegetables. To control, spray Dimethoate @ 2 ml or Acephate @ 1.5 g per litre of water.
- Cloudy and humid weather is conducive for the attack of Leaf Curl disease in Summer Brinjal, Chilly etc. To manage the attack, apply Imidachloprid @ 2ml per liter of water.
- Undertake nursery sowing of Tomato, Brinjal and direct sowing of Gourds, Beans and Bhendi.

### **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.
- For the orchards of the guava, add 20-25 kg cow dung and 50 gms of heptachlor in the soil extracted from the pit and fill it again. For mango, amla and berry orchards add 30 kg of cow dung, 250 grams of single super phosphate and 50-100 g heptachlor in the soil extracted from the pit and fill it again. These operations may be done.
- Farmers are advised to start digging of pit of appropriate size and distance for new orchard establishment. Prepare pit for plantation of saplings of mango, guava.

### **Sugarcane:**

- Farmers are advised to go for propping operation in sugarcane crop i.e. mechanical support to the crop so that strong wind cannot damage the crop from lodging.
- To control red rot disease of sugarcane water stagnation in the field should be avoided and roguing of the affected plants should be practiced.
- To control red rot disease in sugarcane, avoid water stagnation in the field and removing of the affected plants should be practiced.
- To minimize infestation of top shoot borer in sugarcane, spray Lamba cyhalothrin @2ml/litre of water. Apply plant protection measures.

- The attack of top borer can be checked by applying 10 kg Ferterra 0.4 GR or 12 kg Furadan/ Diafuran/ carbofuran encapsulated 3 G at the base of the shoots. Apply granules only if attack exceeds 5% level.
- In the crop of sugarcane need based inter-cultural operations and earthing should be done. Proper drainage system in the sugarcane fields should be maintained to minimize outbreaks of Pyrilla pests.

#### **Turmeric: Vegetative Stage**

- High relative humidity may cause leaf spot in turmeric, spray Mancozeb 1 kg/ha after current spells of moderately heavy rainfall.
- To control Rhizome rot disease turmeric, drench the affected area with 0.3% Mencozeb 75 WP @ 2g/l of water.
- Maintain proper drainage in the field.

#### **Banana**

- Plantation of banana crop should be done as sufficient amount of rainfall is received. Undertake inter-cultural operation should be done in banana orchard.
- Provide mechanical support to banana, to prevent the crops from lodging due to strong winds.
- Due to monsoon showers, there is a chance of Sigatoka disease in banana. As a precaution, spray Pseudomonas 20g/litre. In case of severe attack, spray 2 ml hexaconazole or 1 ml propiconazole per one litre of water by mixing it with a sticker and spray on both the surface of the leaf.
- Since there is no possibility of getting heavy rainfall, therefore, it is advised to apply fertilizer in the 3 months old banana plantations @ 120g Urea, 200g SSP and 275g MOP per plant.
- Weather is congenial for Pseudostem weevil in banana, spray 2.5 ml of Chlorpyrifos or 2 ml of Quinalphos mixing with gum per one litre of water in leaf axils and by inserting the nozzle through the boreholes made by the larva.

#### **Cotton: Sowing stage**

- Continue sowing of cotton.
- Monitor cotton fields for leaf curl infection and for white fly infestation.

#### **Betelvine:**

- Betelvine Green leaf stage –
- Strengthen the fencing of boundary of betel vine so that the boundary cannot be broken due to strong wind and thunderstorm.
- For Phytophthora root rot apply 1% Bordeaux mixture at the base at 1 month interval.
- For Chitla apply 0.5% Bordeaux mixture at 15-20 days interval.
- Maintain free air movement inside the garden.

- 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.

## **Livestock & Poultry**

- Vaccinate cattle and buffalos against the rainy season diseases. Protect cattle from rain and arrange dry bedding for cattle. Avoid water logging in cattle shed.
- Vaccinate the livestock for Black Quarter and foot and mouth diseases. Sheep/goats must be dewormed for maximum weight gain and good health. 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.