

#### RECORD SECTION

#### Ministry of Agriculture, Fisheries and Agrarian Reform

Bangsamoro Autonomous Region in Muslim Mindanao

#### TRACKING FORM

Control No.:

07-773

(Do not detach from Records Section's File Copy)

Name and	Agency (	of Sender/F	Recipien

Akmad A. Abdullah, Samson M. Buca, Jamil K. Aliman and Raiman S. Maguid

Document Title/Subject:

MO No. 051-07 Validation Corn Area Pest Infestation at Datu Hopper, Maguindanao

Type of Transaction:  Released		Date Time 28/07/2021 9:50 am	Time	Released by Records Section: Sittle Almira Ali		Date	Time
			9:50 am			28/07/2021	10:00 AM
					REMARKS		
No.	SIGNATURE OVER PRINTED NAME	REG. 4 Quarantine		DATE	TIME	Departure(Date&Time)	Arriving (Date&Time)
1	JAMIL ALIMAN			09-28-21	10:00		(m)
2							
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4							
5							



#### Republic of the Philippines Bangsamoro Autonomous Region in Muslim Mindanao MINISTRY OF AGRICULTURE, FISHERIES AND AGRARIAN REFORM



Bangsamoro Government Center, Gov. Gutierrez Ave., Rosary Heights VII, Cotabato City, 9600

**MEMORANDUM** Order No. 051-07 Series of 2021

TO

AKMAD A. ABDULLAH

Corn Program Assistant/ Senior Agriculturist

SAMSODIN M. BUCA

Pest surveillance and Monitoring Officer

JAMIL K. ALIMAN **GEO-Tagging Officer** 

RAIMANA S. MAGUID

**RQD Staff** 

**FROM** 

THE MINISTER

DATE

July 27, 2021

SUBJECT

Validation in Corn Area Pest Infestation at Datu Hopper, Maguindanao

The above-mentioned MAFAR employees are hereby directed to undertake official travel on July 29 -30, 2021 to validate reported infestation on corn plants and result of pest monitoring and surveillance as reflected in the pest monthly bulletin published by the Bureau of Plant Industry Manila, in Brgy. Tuayan, Datu Hopper, Maguindanao, BARMM Region.

Anent to this the Regulatory Division extend control measures to suppress insect pest through pesticide distribution and application to the respective affected farmers.

This memorandum shall serve you as travel order.

For information and STRICT COMPLIANCE

MINISTRY OF AGRICULTURE, FISHERIES AND AGRARIAN REPORM RECORDS SECTION

BANGSAMORO ALTONOMOUS REGION IN MUSLIM MINBANAS

MINISTRY OF AGRICULTURE FIGHERIES, AND AGRARIAN REFORM

Office of the Minister

RELEASED

2021 -07- 28

1:50 AM

Minister



# Republic of the Philippines Bangsamoro Autonomous Region in Muslim Mindanao MINISTRY OF AGRICULTURE, FISHERIES AND AGRARIAN REFORM



Bangsamoro Government Center, Gov. Gutierrez Ave., Rosary Heights VII, Cotabato City, 9600

MEMORANDUM Order No. <u>051-07</u> Series of 2021

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Corn Program Assistant/ Senior Agriculturist

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Pest surveillance and Monitoring Officer

JAMIL K. ALIMAN GEO-Tagging Officer

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**ROD Staff** 

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MINISTRY OF AGRICULTURE, FISHERIES AND AGRARIAN REFORM
RECORDS RECTION

BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

MINISTRY OF AGRICULTURE FISHERIES, AND AGRARIAN REFORM

RELEASED

2021 -07- 28

7:50AM

Time:

By:

Minister



# Republic of the Philippines Bangsamoro Autonomous Region in Muslim Mindanao MINISTRY OF AGRICULTURE, FISHERIES AND AGRARIAN REFORM



Bangsamoro Government Center, Gov. Gutierrez Ave., Rosary Heights VII, Cotabato City, 9600

MEMORANDUM Order No. <u>((5)-()</u> Series of 2021

TO

AKMAD A. ABDULLAH

Corn Program Assistant/ Senior Agriculturist

SAMSODIN M. BUCA

Pest surveillance and Monitoring Officer

JAMIL K. ALIMAN GEO-Tagging Officer

**RAIMANA S. MAGUID** 

**RQD Staff** 

**FROM** 

THE MINISTER

DATE

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For information and STRICT COMPLIANCE

MOHAMMAD S. VACOB, Ph.D.

Minister

MINISTRY OF AGRICULTURE, FISHERIES AND A GRADIAN KEEDRM RECORDS SECTION

BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO MINISTRY OF AGRICULTURE JETSHERIES, AND AGRARIAN REFORM

2021 -07- 28

Time:

Tel./Fax: (064) 421-1234 | Website: mafar bangsamoro gov.ph | Facebook: facebook com/mafar bangsamoro | E-mail: mafar a bangsamoro gov.ph

9:50AM



#### Republic of the Philippines Bangsamoro Autonomous Region in Muslim Mindanao MINISTRY OF AGRICULTURE, FISHERIES AND AGRARIAN REFORM BARMM Compound, Gov. Gutierrez Ave., RH-7, Cotabato City, Philippines, 9600



**MEMORANDUM ORDER** 

No. 148-07 Series of 2021

TO:

ENGR. ISMAIL A. GUIAMEL

Director II, Agriculture Services

RONJAMIN M. MAULANA, Ph.D

Provincial Head, MAFAR-Maguindanao

Cc:

IAMER GUIMBA

Chief, Regulatory Division

FROM:

MINISTER

DATE:

July 12, 2021

SUBJECT:

Pest Advisory on Corn Pests and Diseases in Maguindanao

In reference to the Corn Pest Monthly Bulletin of Bureau of Plant Industry-Crop Pest Management Division (BPI-CPMD) for the month of June 2021, and based on the result of the data analysis on research project titled " Development of Early Warning System and Database Management of Corn Arthropod Pest and Diseases in the Bangsamoro Autonomous Region in Muslim Mindanao" funded by the Bureau of Agricultural Research (DA-BAR) in collaboration with Bureau of Plant Industry-Crop Pest Management Division (BPI-CPMD), you are hereby advise to disseminate information generated to alert corn farmers on crop protection and management.

Take note also of the Leaf spot as recorded alarming disease with moderately severe damage observed in Tuayan, Datu Hoffer, Maguindanao.

Attached are the profile of corn arthropod pest and diseases, and the management options for the betterment of the farming communities in the region.

For reference.

Minister

2:44PM

Agricultures

Fax No.: (064) 421 - 1234 & Telephone No: (064)552-3166 Email Address:

Fisheries: Fax No.:(064) 421-9788
Agrarian Reform: Fax No. & Telephone No.:(064) 552 - 1846

mafur@bangsamoro.gov.ph

## PEST ADVISORIES FOR CORN IN THE BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO

#### Location: DATU HOFFER AMPATUAN, MAGUINDANAO

#### **INSECT PESTS**

Common Name: Fall Armyworm (FAW) Order/ Family: Lepidoptera: Noctuidae Scientific Name: Spodoptera frugiperda

#### **Stages of Development:**

Eggs: 2-3 days

Larva: 14-22 days (6 larval instars)

Pupa: 8-30 days Adult: 10-22 days

#### **Damage Characteristics:**

Feed on whole plant above soil level

# Source: Datu Hoffer, Maguindanao

#### **Management Strategies:**

- > Ploughing under corn stubbles after harvest
- > Strictly follow synchronous planting
- > Field sanitation
- > Hand picking
- > Release of Trichogramma chilonis at different intervals
- > Release of Earwig, Euborella sp. at different intervals
- > Application of *Metarhizium sp.* at different intervals
- ➤ Application of FDA approved and recommended insecticide with contact and stomach activity

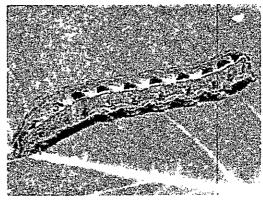
Common Name: **Common Cutworm**. Order/ Family: **Lepidoptera/ Noctuidae** Scientific Name: **Spodoptera litura** Fabricius

#### Stages of Development:

Eggs- 2-3 days Larva- 20 days Pupa- 8-11 days Adult- 5-7 days

#### **Damage Characteristics**

Young corn plants may be completely defoliated, cut stem and leaves including veins and midribs almost consumed.



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#### **Management Strategies:**

- Plow fields to remove weeds which may serve as alternate hosts
- > Use light traps or sex pheromone traps for monitoring
- > Practice crop rotation
- > Plant Bt corn hybrids
- > Release of Braconid egg parasitoid
- > Spray nucleopolyhedrosis virus (NPV)
- Use pyrethroids, carbamates, and organophosphates
- > Collection and crush egg masses and early larval stages

- Frequent rainfall
- Infected leaves on soil
- Warm temperature ranging from 22°C to 30°C

#### **Management Strategies:**

- Use varieties against this fungus (resistant varieties)
- > Field sanitation (clean plowing, remove infected debris and decayed plant parts)
- > Balance soil fertility
- > Low plant populations
- > Crop rotation
- > Importance in irrigation system

Disease Name: Leaf Blight

Causal Type: Fungi

Scientific Name: Diplodia macrospora Earle

#### **Crop Stage of Corn Affected:**

Vegetative and post flowering stage

#### Favorable Environmental Condition:

- Dry conditions in the early stage
- Warm wet environment at 2-3 weeks after silking (promote disease development)
- High nitrogen and low phosphorus levels
- High plant density and short planting distance

#### **Management Strategies:**

- > Use varieties or hybrid seeds with at least moderate resistance
- Deep plowing and field sanitation, it helps in reducing the initial source of inoculum
- ➤ Use of fungicides

Disease Name: Brown spot

Causal Type: Fungi

Scientific Name: Physoderma maydis

#### **Crop Stage of Corn Affected:**

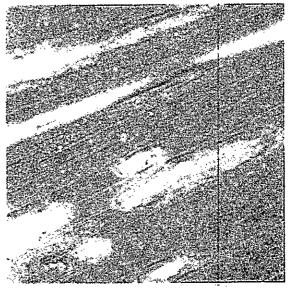
Leaf, leaf sheath and stalk

#### **Favorable Environmental Condition:**

- Flooded field
- Strong winds
- Warm temperature

#### **Management Strategies:**

- > Field sanitation
- Crop rotation
- > Tillage
- ➤ Foliar fungicides labeled for *Physoderma* brown spot



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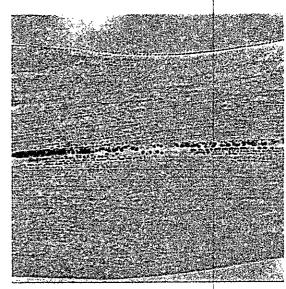


image source: https://cropprotectionnelwork.org/resources/orticles/

Common Name: Corn Planthopper Order/ Family: Hemiptera: Delphacidae

Scientific Name: Stenocranus pacificus Kirkaldy

#### Stages of Development:

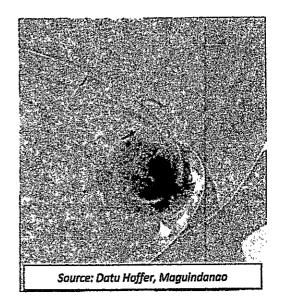
Egg: 4-10 days Nymph: 16 days

Adult: 2-27 days (winged male), 3-18 days (wingless male); 7-14 days (winged female), 8-39

days (wingless female).

#### **Damage Characteristics:**

Drying up of leaves due to sucking. Blackening of leaves due to sooty molds. Hopper burn bug when infestation level is very high.



#### **Management Strategies:**

- > Practice follow period, if crop rotation is not possible (other non-graminaceous crop) this is to break the cycle of the planthoppers
- > Plow under or burn corn stubbles or plant debris immediately after harvest to kill remaining eggs, nymphs and some adults
- > Follow recommended fertilizer requirement and split nitrogen application. Excessive use of nitrogen-based fertilizers makes plant susceptible and attractive
- > Increase planting distance enough to sunlight to penetrate (shady areas favorable to planthoppers)
- > Intercrop leguminous plants as refuge for natural enemies, soil conditioner and added income
- > Planthopper eggs are parasitized by fairy wasp (Anagrus sp.)
- > Mirid bugs (Cyrtorhinus lividipennis) prey on eggs
- > Dragon flies and damselflies prey on moving adults
- > Spider prey on nymphs and adults
- > Seed treatment with neonicotinoids, organophosphates and carbamates

#### DISEASES OF CORN

Disease Name: Leaf Spot Causal Type: Fungi

Scientific Name: Cercospora zeae-maydis Tehon &

E.Y. Daniels

#### **Crop Stage of Corn Affected:**

Flowering stage, fruiting stage and vegetative growing stage

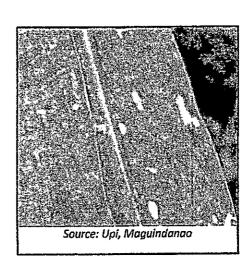
#### **Affected Plant Parts:**

Fruit-reduced size Leaf-abnormal colors, yellowed or dead, necrotic areas, fungal growth Seed-Shriveled Stem-lodging, broken stems

Whole pant- early senescence, plant dead, dieback

#### **Favorable Environmental Condition:**

High humidity (90% to 98%)







#### TOTAL ACTIVE DATA

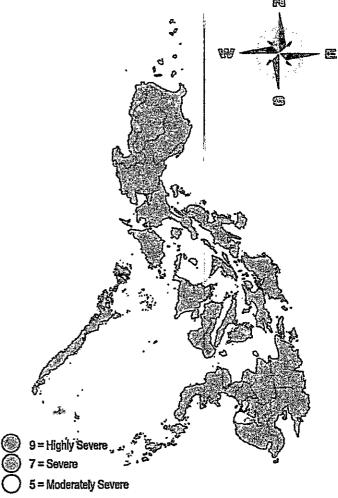
as of June 30, 2021 | 8:09 pm



### TOP THREE (S) MAJOR ARTHROPOD RE

1. Falli Armiywomn = 10:20 % 2. Gunwomn = 2.43.% 3. Godn Plandhopper = 2.28.%

# TOP THREE (3) MAJOR DISEASES Leaf Spot - 6.06 % Leaf Blight 2.41 % Brown Spot - 1.45 %



SEVERITY	% INCIDENCE (REGIONAL LEVEL)	ALARMING PEST/ ALARMING DISEASES	NO. OF ALARMING SITES/LOCATION	REGION	PROVINCE	MUNICIPALITY	BARANGAY	FARM ID
5	20,76	Leaf Spot	5	BARMM	MAGUINDANAO	DATU HOFFER AMPATUAN	TUAYAN	15801456015
			5	BARMM	MAGUINDANAO	DATU HOFFER AMPATUAN	TUAYAN	15801456016
			5	BARMM	MAGUINDANAO	DATU HOFFER AMPATUAN	TUAYAN	15801456017
			5.	BARMM	MAGUINDANAO	DATU HOFFER ALIPATUAN	TUAYAN	15801456018
			5	BARNIM	MAGUINDANAO	DATU HOFFER AMPATUAN	TUAYAN	15801456021



ANNOUNCEMENT