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PEST ADVISORY

Possible Pests to occur on Rice for the Third Quarter (July - September) of 2019 based on Historical Data

PEST ADVISORY: Possible Pests to occur on Rice for the Third Quarter (July - September) of 2019 based on Historical Data

RODENT

Number of Possible Sites to be Affected = 80

Possible Areas to be Affected

- **Region 6** (Iloilo, Capiz, Aklan, Antique, Guimaras)
- **Region 5** (Sorsogon, Camarines Sur, Albay, Camarines Norte, Masbate)
- **Region 9** (Zamboanga del Sur)
- **Region 12** (Sultan Kudarat, South Cotabato, Sarangani, Cotabato, North Cotabato)
- **Region 2** (Isabela, Nueva Vizcaya, Cagayan)
- **Region 3** (Aurora, Nueva Ecija, Pampanga, Tarlac, Bulacan, Bataan, Zambales)
- **Region 4-B** (Palawan, Marinduque, Oriental Mindoro)
- **Region 1** (Pangasinan, La Union)
- **Region 8** (Leyte, Samar)
- **BARMM** (Maguindanao)
- **Region 4-A** (Quezon)
- **Region 11** (Davao del Sur)

TRIGGERING CONDITIONS

- Absence of effective vertebrate predation has better chances of successful breeding
- Asynchronous planting
- No fallow periods

MANAGEMENT OPTIONS

- Community Trap Barrier System
- Rat Campaign/Hunting
- Field sanitation
- Increase water level/flooding
- Use of flame thrower
- Rat trapping
- Synchronous planting
- Practice fallow period
- Time the application of mortality control at the early to mid-tillering stage when population is low

BACTERIAL LEAF BLIGHT

Number of Possible Sites to be Affected D = 129

Possible Areas to be Affected

- **Region 1** (*Pangasinan, Ilocos Sur, La Union, Ilocos Norte*)
- **Region 6** (*Iloilo, Capiz, Aklan, Antique, Guimaras*)
- **Region 9** (*Zamboanga del Sur, Zamboanga Sibugay*)
- **Region 3** (*Zambales, Nueva Ecija, Bulacan, Pampanga, Aurora, Tarlac, Bataan*)
- **Region 5** (*Sorsogon, Camarines Sur, Albay, Camarines Norte*)
- **Region 2** (*Cagayan, Isabela*)
- **Region 4-B** (*Marinduque, Oriental Mindoro, Palawan*)
- **Region 7** (*Negros Oriental*)
- **Region 4-A** (*Laguna, Quezon*)
- **BARMM** (*Maguindanao*)

TRIGGERING CONDITIONS

- Susceptible variety
- Excessive application of nitrogen and magnesium may increase disease incidence
- Damp, moist and windy conditions
- Close plant spacing
- Prolonged drought followed by heavy rains

MANAGEMENT OPTIONS

- Thorough land preparation
- Practice synchronous planting
- Ensure good drainage
- Field monitoring for early detection
- Avoid excessive nitrogen fertilizer
- Practice fallow period
- Remove and burn disease stubbles and straws after harvest.
- Maintain field sanitation

RICE STEMBORER

Number of Possible Sites to be Affected = 63

Possible Areas to be Affected

- **Region 6** (*Capiz, Iloilo, Antique, Aklan, Guimaras*)
- **Region 9** (*Zamboanga del Sur, Zamboanga del Norte, Zamboanga Sibugay*)
- **Region 5** (*Sorsogon, Masbate, Camarines Sur, Catanduanes, Albay*)
- **Region 1** (*Ilocos Sur, La Union, Ilocos Norte, Pangasinan*)
- **Region 12** (*Sultan Kudarat, Cotabato, Sarangani, South Cotabato, North Cotabato*)
- **Region 3** (*Pampanga, Aurora, Zambales, Nueva Ecija, Tarlac*)
- **Region 4-B** (*Palawan, Marinduque, Oriental Mindoro*)
- **Region 8** (*Leyte*)
- **Region 7** (*Negros Oriental*)
- **Region 2** (*Cagayan, Quirino*)
- **Region 4-A** (*Quezon, Batangas, Laguna*)
- **BARMM** (*Maguindanao*)

TRIGGERING CONDITIONS

- Excessive use of nitrogen fertilizer
- Asynchronous planting
- No fallow periods

MANAGEMENT OPTIONS

- Thorough land preparation to kill larvae and pupae.
- Plant resistant rice varieties.
- Practice synchronous planting
- Cut leaf top (seedling stage) to reduce carry-over eggs before transplanting
- Hand pick and destroy egg masses.
- Field release of *Trichogramma japonicum* (egg parasitoid)
- Field sanitation
- Practice fallow period.

RICE BLACK BUG

Number of Possible Sites to be Affected = 77

Possible Areas to be Affected

- **Region 7** (*Negros Oriental, Bohol, Cebu*)
- **Region 3** (*Bulacan, Nueva Ecija, Aurora, Zambales, Pampanga, Tarlac, Bataan*)
- **Region 6** (*Capiz, Iloilo, Antique, Negros Occidental*)
- **Region 4-B** (*Palawan, Occidental Mindoro*)
- **Region 5** (*Sorsogon, Camarines Sur, Albay, Masbate*)
- **Region 4-A** (*Cavite, Batangas, Laguna, Quezon*)
- **Region 12** (*Sultan Kudarat, South Cotabato, Cotabato, North Cotabato, Sarangani*)
- **Region 1** (*Pangasinan, Ilocos Sur, La Union*)
- **Region 2** (*Nueva Vizcaya, Quirino, Cagayan*)
- **Region 9** (*Zamboanga del Sur*)
- **CAR** (*Ifugao, Apayao*)
- **Region 8** (*Leyte, Samar*)
- **CARAGA** (*Agusan del Norte*)

TRIGGERING CONDITIONS

- Asynchronous planting
- No fallow periods

MANAGEMENT OPTIONS

- If more than 5 RBB/hill apply intervention.
- Light trapping 3 days before and after full moon.
- Increase water level.
- Herding of ducks
- Plow-under in heavily infested field
- Plow field immediately after harvest
- Community approach application of *Metarhizium anisopliae*
- Field sanitation

BROWN PLANTHOPPER

Number of Possible Sites to be Affected = 106

Possible Areas to be Affected

- **Region 1** (*Ilocos Sur, La Union, Pangasinan, Ilocos Norte*)
- **Region 4-B** (*Palawan, Occidental Mindoro, Marinduque, Oriental Mindoro*)
- **Region 6** (*Capiz, Iloilo, Aklan, Antique*)
- **Region 3** (*Nueva Ecija, Aurora, Bulacan, Pampanga*)
- **Region 7** (*Cebu, Negros Oriental*)
- **Region 8** (*Leyte*)
- **Region 5** (*Camarines Sur, Catanduanes, Sorsogon*)
- **Region 9** (*Zamboanga del Sur, Zamboanga del Norte*)
- **Region 2** (*Isabela*)

TRIGGERING CONDITIONS

- Susceptible variety
- High temperature and relative humidity
- Continuous use of insecticides (e.g. Deltamethrin, Methyl parathion, Diazinon, Cypermethrin, Permethrin, Fenvalerate)

MANAGEMENT OPTIONS

- Practice synchronous planting.
- Avoid excessive nitrogen fertilizer.
- Plow-under in heavily infested field
- Plant rice varieties that are resistant to brown planthopper.
- Judicious application of insecticides
- Intermittent water flooding
- Application of *Metarhizium anisopliae*

NOTE:

Possible pest to occur was based on historical data submitted by Regions from year 1993 to 2019. Affected areas may vary depending on pest reports submitted by Regions.