

RODENT

Possible Areas to be Affected

Region 5 (Camarines Sur, Sorsogon, Albay, Catanduanes, Masbate, Camarines Norte), Region 6 (Aklan, Capiz, Antique, Iloilo, Negros Occidental), Region 2 (Isabela, Cagayan, Quirino, Nueva Vizcaya), Region 12 (Sultan Kudarat, South Cotabato, North Cotabato, Sarangani), CAR (Ifugao, Mt. Province), Region 3 (Aurora, Pampanga, Bulacan, Nueva Ecija, Tarlac, Bataan), Region 4-B (Palawan, Oriental Mindoro), Region 8 (Leyte, Eastern Samar, Northern Samar, Samar, Southern Leyte), Region 9 (Zamboanga del Sur, Sultan Kudarat, Zamboanga Sibugay), Region 13 (Agusan del Sur, Surigao del Norte, Surigao del Sur), Region 1 (Pangasinan, La Union, Ilocos Norte, Ilocos Sur), Region 11 (Davao del Sur, Davao Oriental), Region 4-A (Laguna), Region 10 (Misamis Occidental, Bukidnon, Misamis Oriental), Region 7 (Negros Oriental)

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



Courtesy: Rice Knowledge Bank, IRRI (photo)



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BROWN PLANTHOPPER

Possible Areas to be Affected

Region 3 (Bulacan, Pampanga, Nueva Ecija, Aurora, Bataan, Tarlac), Region 4-B (Oriental Mindoro, Palawan), Region 2 (Isabela, Cagayan, Nueva Vizcaya, Quirino), Region 6 (Capiz, Iloilo, Aklan, Antique), CAR (Ifugao, Benguet, Kalinga, Mt. Province), Region 13 (Agusan del Norte, Surigao del Sur, Agusan del Sur, Surigao del Norte), Region 5 (Camarines Norte, Camarines Sur, Catanduanes), Region 8 (Biliran, Eastern Samar, Southern Leyte, Leyte, Northern Samar), Region 4-A (Laguna, Quezon), Region 7 (Bohol, Negros Oriental, Cebu, Siquijor), Region 1 (Pangasinan, Ilocos Sur, La Union), Region 12 (South Cotabato, Sarangani), Region 9 (Zamboanga del Norte, Zamboanga Sibugay)

Management Options

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



Courtesy: Rice Knowledge Bank, IRRI (photo)



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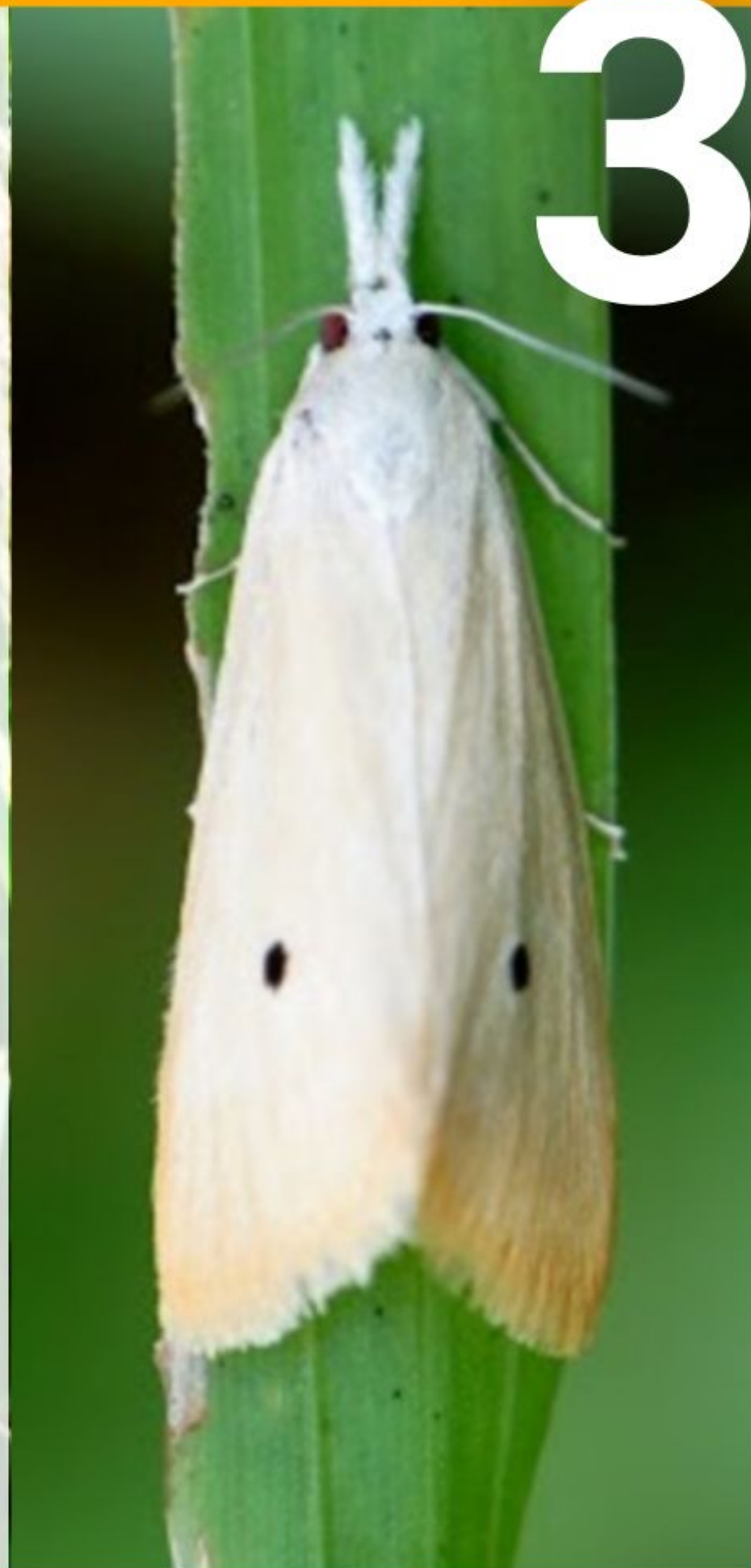
RICE STEMBORER

Possible Areas to be Affected

Region 6 (Capiz, Iloilo, Antique, Aklan, Negros Occidental), Region 9 (Zamboanga del Sur, Zamboanga Sibugay), Region 12 (Sultan Kudarat, South Cotabato, North Cotabato, Sarangani), Region 5 (Sorsogon, Camarines Norte, Catanduanes, Albay), CAR (Ifugao, Kalinga, Mt. Province, Abra), Region 3 (Nueva Ecija, Bulacan, Pampanga, Aurora, Tarlac, Zambales, Bataan), Region 8 (Leyte, Eastern Samar, Biliran, Northern Samar), Region 13 (Surigao del Norte, Agusan del Norte, Surigao del Sur), Region 4-B (Oriental Mindoro, Palawan, Occidental Mindoro), Region 7 (Bohol, Negros Oriental, Siquijor), Region 2 (Isabela, Quirino, Cagayan), Region 4-A (Laguna, Quezon, Cavite), Region 1 (La Union, Pangasinan), Region 10 (Misamis Occidental), Region 11 (Davao Oriental)

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
- Handpick and destroy egg masses.
- Field release of *Trichogramma japonicum* (egg parasitoid)
- Field sanitation & Practice fallow period



Courtesy: Rice Knowledge Bank, IRRI (photo)



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BACTERIAL LEAF BLIGHT

Possible Areas to be Affected

Region 6 (Aklan, Capiz, Iloilo, Antique, Negros Occidental), Region 4-B (Palawan, Oriental Mindoro), Region 5 (Sorsogon, Camarines Norte, Catanduanes, Masbate, Camarines Sur, Albay), Region 2 (Cagayan, Quirino, Isabela, Nueva Vizcaya), Region 8 (Leyte, Northern Samar, Eastern Samar, Biliran), Region 3 (Nueva Ecija, Pampanga, Aurora, Bulacan, Zambales, Bataan), Region 9 (Zamboanga del Sur, Zamboanga Sibugay), Region 1 (Pangasinan, La Union, Ilocos Norte), CAR (Ifugao, Kalinga), Region 13 (Agusan del Norte, Surigao del Sur, Surigao del Norte, Agusan del Sur), Region 7 (Bohol, Negros Oriental, Siquijor), Region 4-A (Quezon, Laguna, Cavite), Region 12 (Sultan Kudarat)

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

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RICE BLACK BUG

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Possible Areas to be Affected

Region 6 (Capiz, Iloilo, Antique, Negros Occidental, Aklan), Region 4-B (Palawan, Oriental Mindoro), Region 12 (Sultan Kudarat, South Cotabato, Sarangani), Region 3 (Nueva Ecija, Pampanga, Bulacan, Aurora, Bataan, Tarlac), Region 8 (Leyte, Southern Leyte, Biliran, Samar), Region 5 (Camarines Sur, Sorsogon), Region 4-A (Laguna, Batangas, Rizal, Cavite), Region 9 (Zamboanga del Sur, Basilan, Zamboanga del Norte, Zamboanga City), CAR (Ifugao, Mt. Province), Region 7 (Negros Oriental, Bohol, Siquijor), Region 2 (Nueva Vizcaya), Region 1 (La Union, Pangasinan), Region 10 (Bukidnon)

Management Options

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



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