

RED-STRIPED SOFT SCALE INSECT



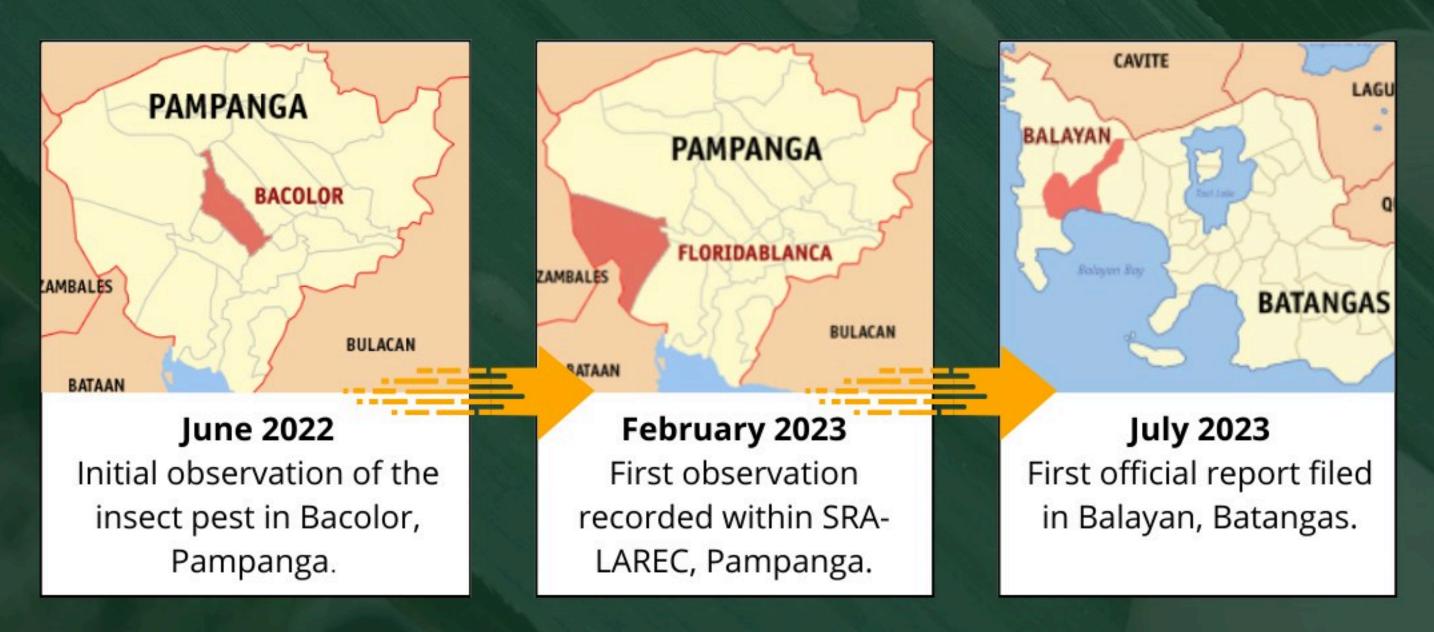
RED-STRIPED SOFT SCALE INSECT

Pulvinaria tenuivalvata



It is an emerging pest of sugarcane in the Philippines.

The initial observation of the insect pest took place in Bacolor, Pampanga. From this date, reports of redstriped soft scale insect began to continue in other parts of Luzon.



Pest infestation was recently observed at Tuy and Calaca, Batangas and Calamba, Laguna last October 2023.

PEST IDENTIFICATION



Habitus and slide-mounted specimens of teneral (A, C) and mature (B, D) adult females of the red-striped soft scale insect collected from Pampanga. Source: National Crop Protection Center

Full grown adult of *Pulvinaria tenuivalvata* observed in sugarcane by BPI-CPMD during the pest monitoring and validation at Balayan, Batangas.



DAMAGE CHARACTERISTICS



Red-striped soft scale insects are phloem-sucking pest feeding on plant sap of sugarcane by piercing and sucking the foliage.



These insects secretes honeydew unto the leaves and stem attracting ants. Honeydew also serves as media to sooty mold fungi characterized by black sooty appearance of the infested plant (Navasero et.al, 2023).



Severely infested sugarcane is characterized by yellowing, drooping of leaves, wilting and presence of heavy sooty mold growth coating the leaf surfaces.

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PEST MANAGEMENT RECOMMENDATIONS

Cultural Method

- Manage residues Allow residue to decompose properly by thorough land preparation.
- Use clean planting materials Strict movement of cuttings/planting materials from infested sugarcane areas to non-infested areas.
- Weed management Keep weeds in check as it serves as alternate hosts of red-striped soft scale.

Biological Control

 Use of entomopathogenic fungi - Spray application of Beauveria bassiana as early as 2 months after planting to immediately suppress succeeding populations. (Beauveria spp. is being produced and provided (free-ofcharge) by DA-BPI-CPMD Central Office Manila and Regional Crop Protection Centers (RCPCs) prior upon request.)

Source: Regional Crop Protection Center-CALABARZON

PEST MANAGEMENT RECOMMENDATIONS

Chemical Control

 Application of insecticides - Bakry et.al (2023), found insecticides with the active ingredient *Pyriproxyfen* is toxic against nymphal stages of *P. tenuivalvata* on sugarcane leaves.

Information-dissemination

• Enhance the knowledge and skills of sugarcane farmers/growers and stakeholders on proper pest identification, with emphasis on diagnosing the pest thru its injuries/damage and identifying proper management treatments to prevent further pest build up.

Source: Regional Crop Protection Center-CALABARZON

REFERENCES







RED-STRIPED SOFT SCALE PEST OF SUGARCANE IN SRA-LAREC, FLORIDABLANCA, PAMPANGA: FIELD VISIT REPORT CONDUCTED ON SEPTEMBER 5, 2023

Marcela M. Navasero', Michelle S. Guerrero', Randolph N. Candano', Normandy M. Barbecho', Jerrimae Vicente', Agnes Casupanan', Melissa P. Montecalvo', Romalene L. Miras', Gideon Aries S. Burgonio', Wilson de Panis', Maricon dP. Javier', Rizal D. Oguan', Raphael Henri Mundo', and Barbara L. Caolii'

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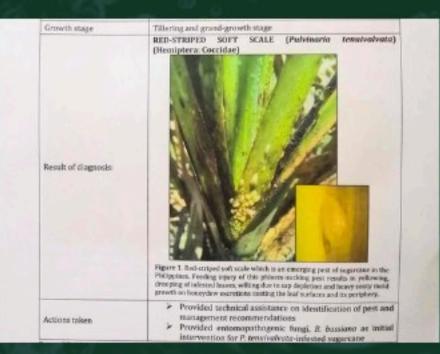
Background Information

Sugarcane, Saccharum officinarum, is the main crop of the Sugar Regulatory Administration - Luzon Agricultural Research and Extension Center (SRA-LAREC), Floridablanca, Pampanga, Batangas, and Tarlac and its damage alarmed the sugarcane in Pampanga, Batangas, and Tarlac and its damage alarmed the personnel and officials of the Center. To determine the identity of the infesting pest, personnel from the Philippine Space Agency (PhilSA), SRA, and the National Crop Protection Center (NCPC) met virtually on August 25, 2023 via Microsoft Teams. Pest samples were brought to the NCPC for pest diagnosis. Field visits at SRA-LAREC, Floridablanca, Pampanga and Brgy, Salu, Porac, Pampanga by NCPC researchers and staff was done on September 5, 2023 for field ocular inspection, sample collection, and interview.

In June 2022, the initial observation of the insect pest took place in Bacolor, Pampanga. Another significant milestone occurred when the first observation was recorded within SRA-LAREC in February 2023. The month of July 2023 marked two noteworthy events. Firstly, there was the inaugural observation conducted within a greenhouse setting. Additionally, the first official report was filed in Balayan, Batangas. August 2023 was an active month, involving a field visit to infested areas in Balayan, Batangas, along with the submission of a specimen for diagnostic purposes. Furthermore, reports originating from various municipalities in Pampanga underscored the extent and significance of the situation. Other municipalities with reported incidence: Porac and Maliwalu of Pampanga; Calaca, Batangas; and Capas, Tarfac. This information was reported by Ms. Jerrimae Vicente, Science Research Specialist I of SRA-LAREC. RED-STRIPED SOFT SCALE PEST OF SUGARCANE IN SRA-LAREC, FLORIDABLANCA, PAMPANGA: FIELD VISIT REPORT CONDUCTED ON SEPTEMBER 5, 2023 (RESEARCH PAPER)

published by the National Crop Protection Center, College of Agriculture and Food Science, University of the Philippines Los Baños and Sugar Regulatory Administration - Luzon Agricultural Research and Extension Center You may read it at:

https://www.researchgate.net/publication/373992636_RED-STRIPED_SOFT_SCALE_PEST_OF_SUGARCANE_IN_SRA-LAREC_FLORIDABLANCA_PAMPANGA_FIELD_VISIT_REPORT_CONDUCTED_ ON_SEPTEMBER_5_2023



PLANT PEST REPORT RE: RED-STRIPED SOFT SCALE, REGIONAL CROP PROTECTION CENTER-CALABARZON DATED OCTOBER 11, 2023



