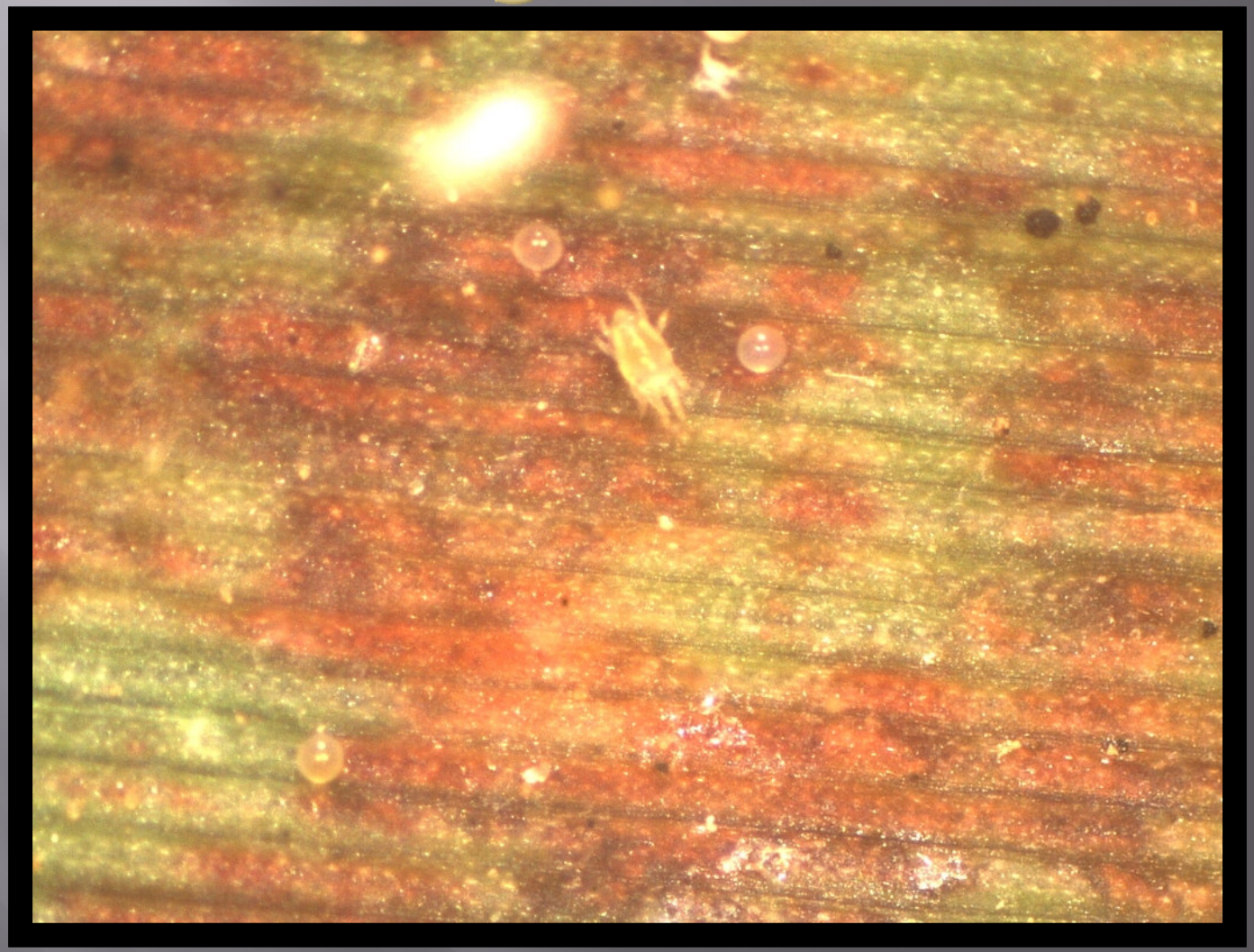
New Insect Pests In Sugarcane

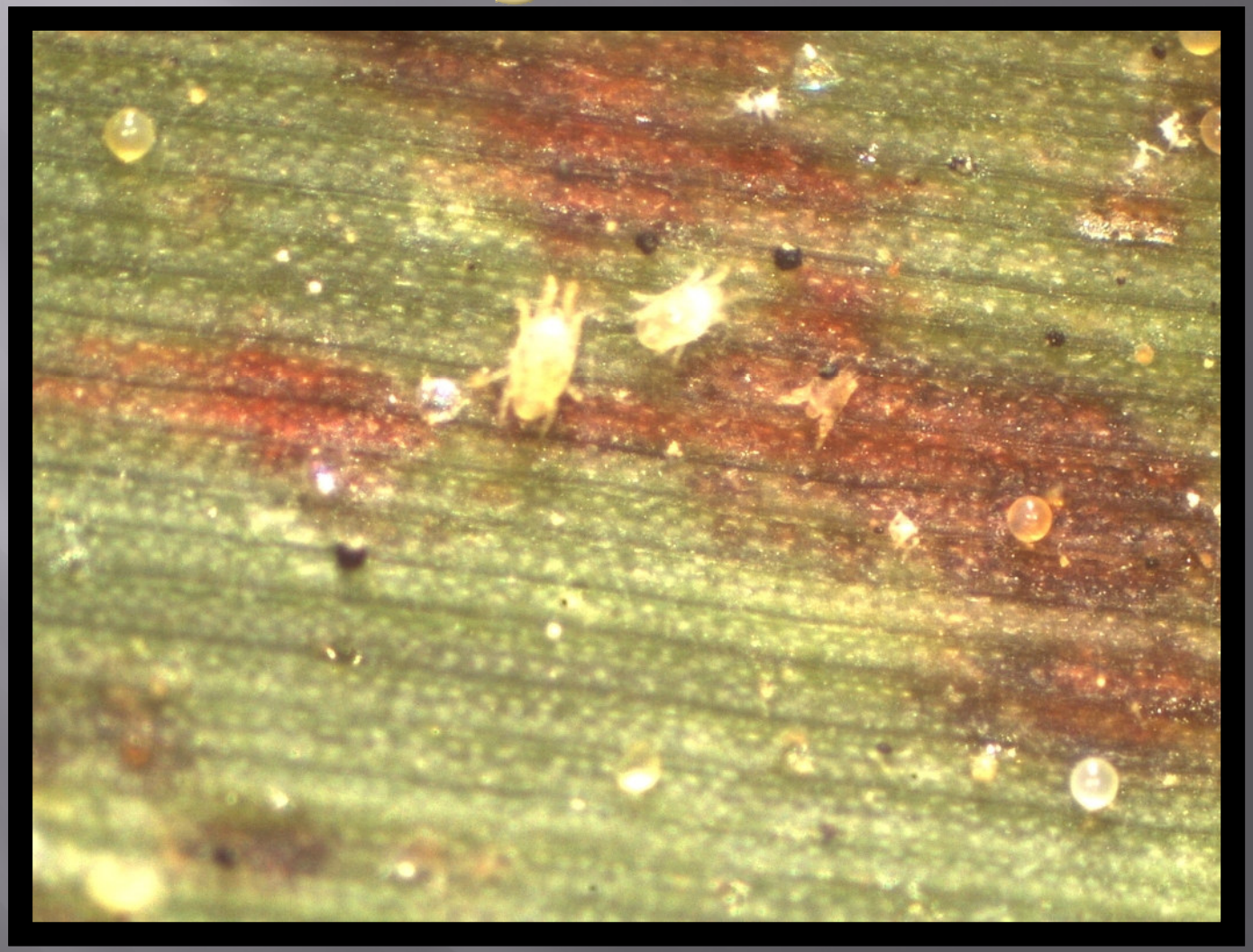
New Insect Pests In Sugarcane

New Insect Pests In Sugarcane

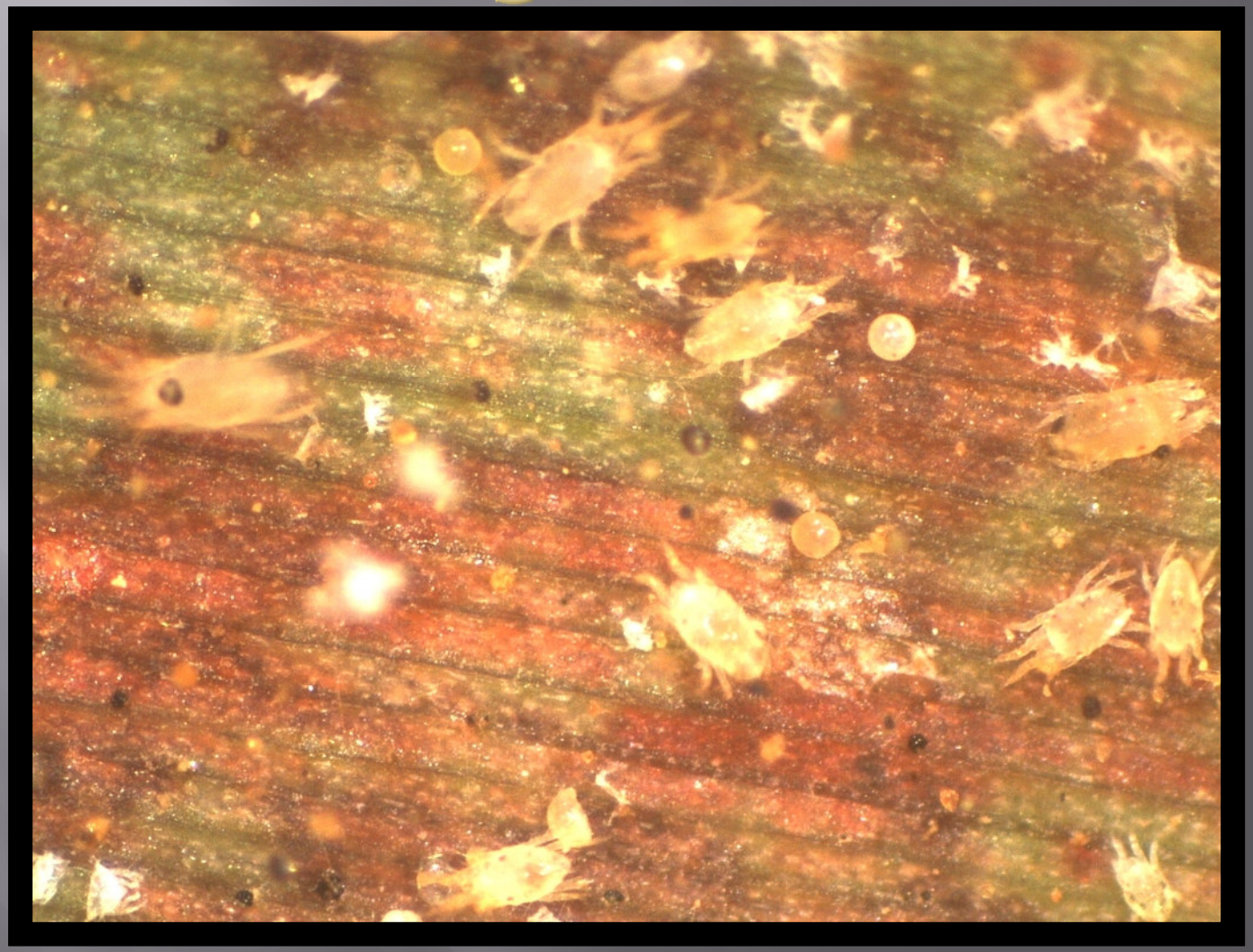
New Insect Pests In Sugarcane



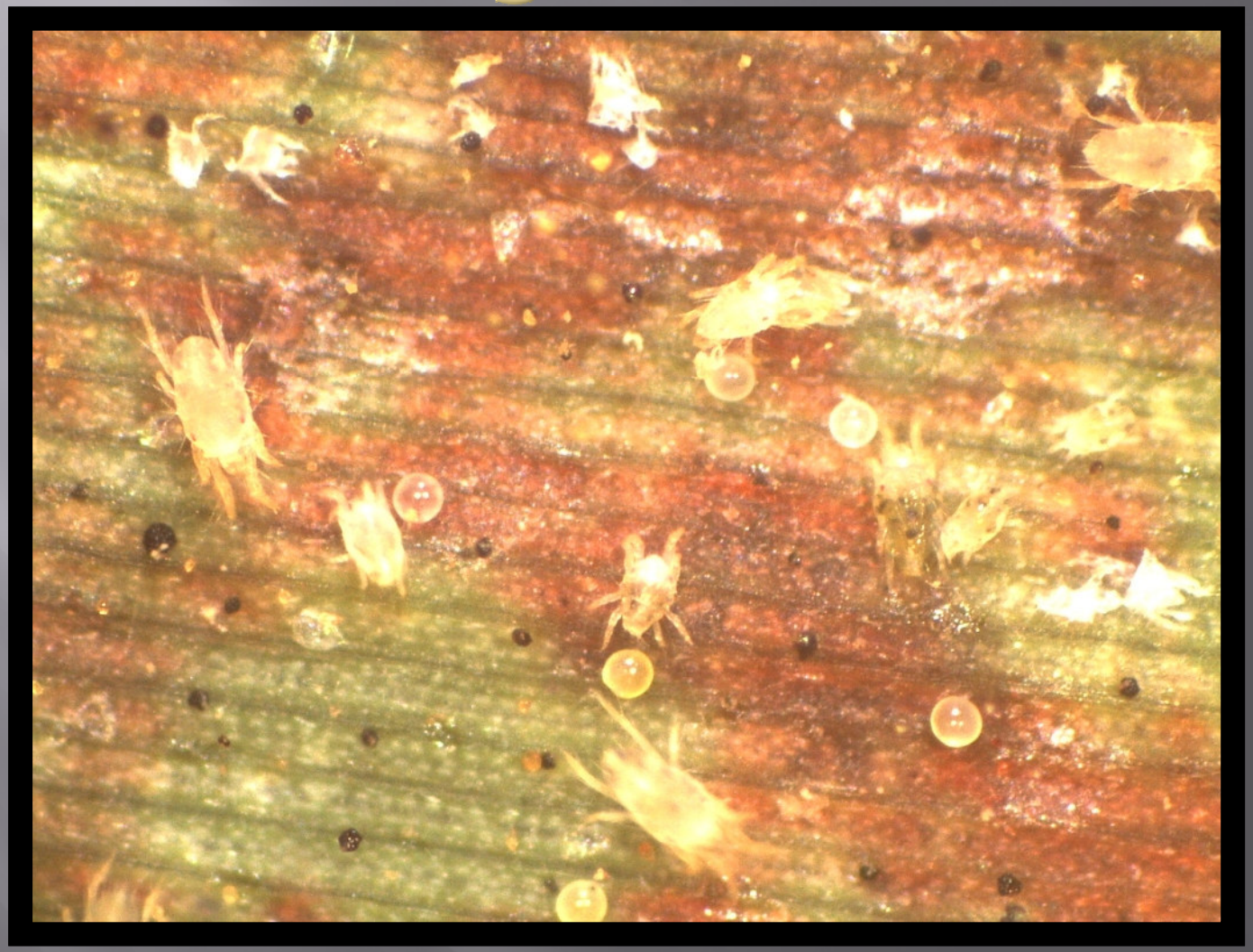
New Insect Pests In Sugarcane



New Insect Pests In Sugarcane



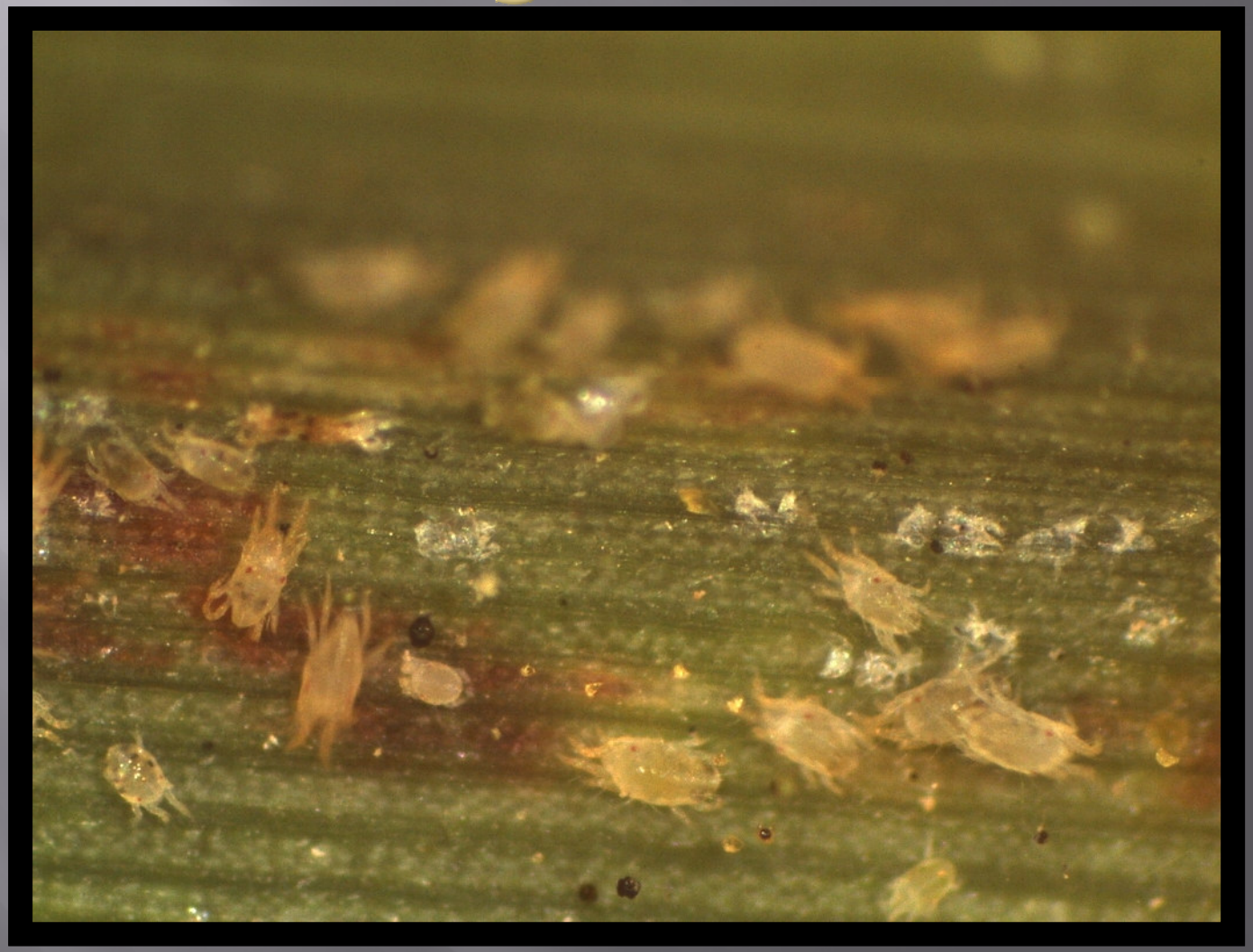
New Insect Pests In Sugarcane



New Insect Pests In Sugarcane

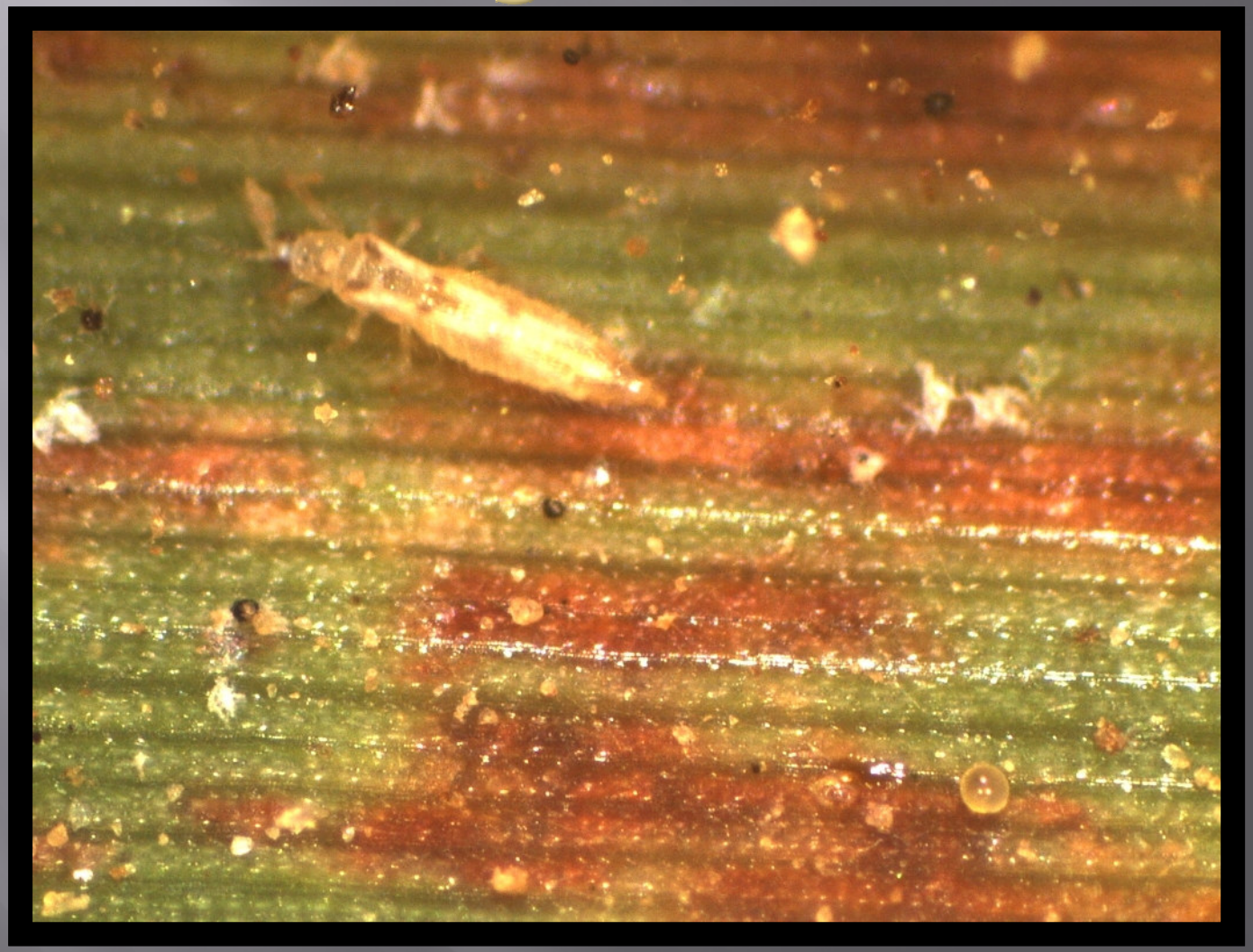
New Insect Pests In Sugarcane

New Insect Pests In Sugarcane

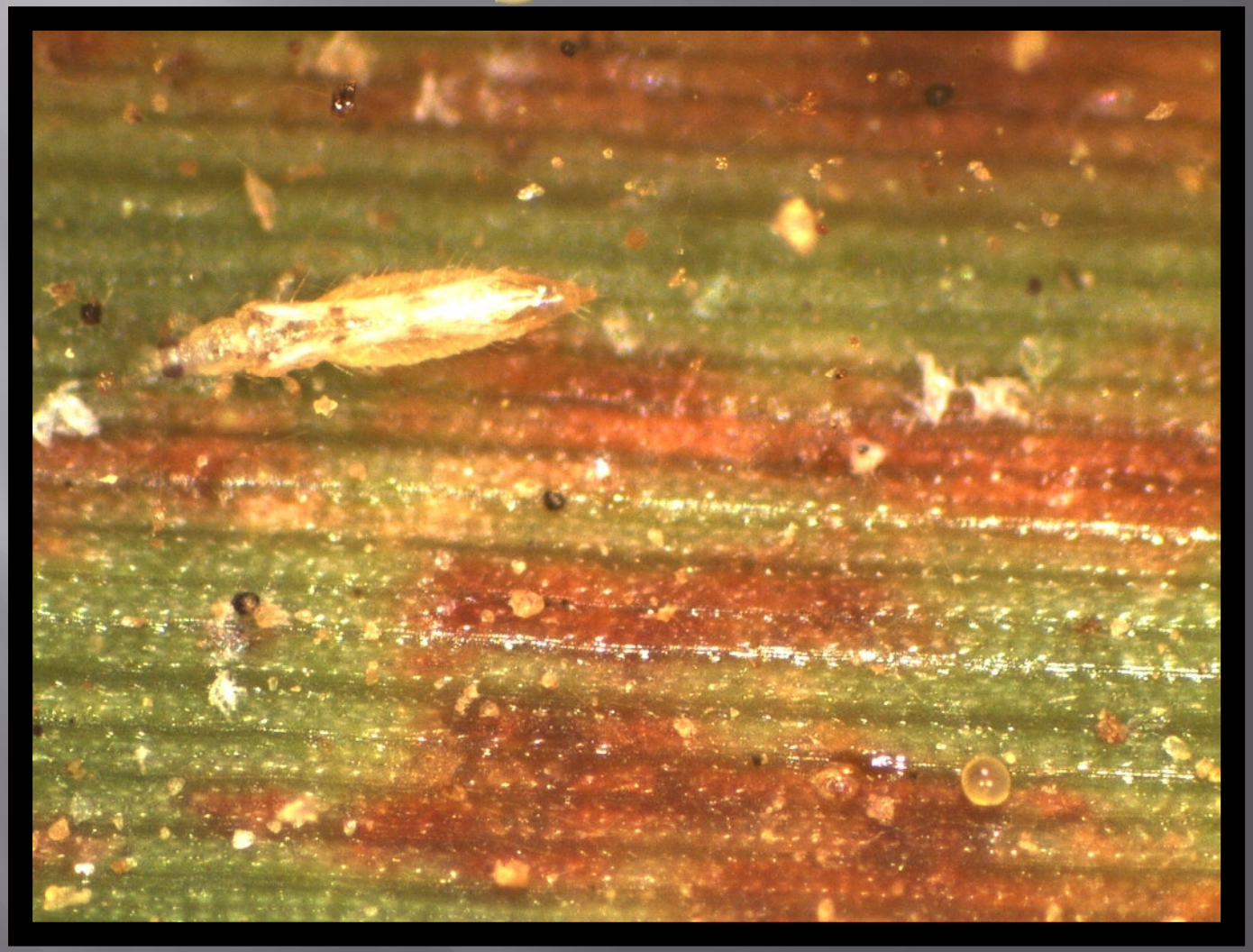


New Insect Pests In Sugarcane

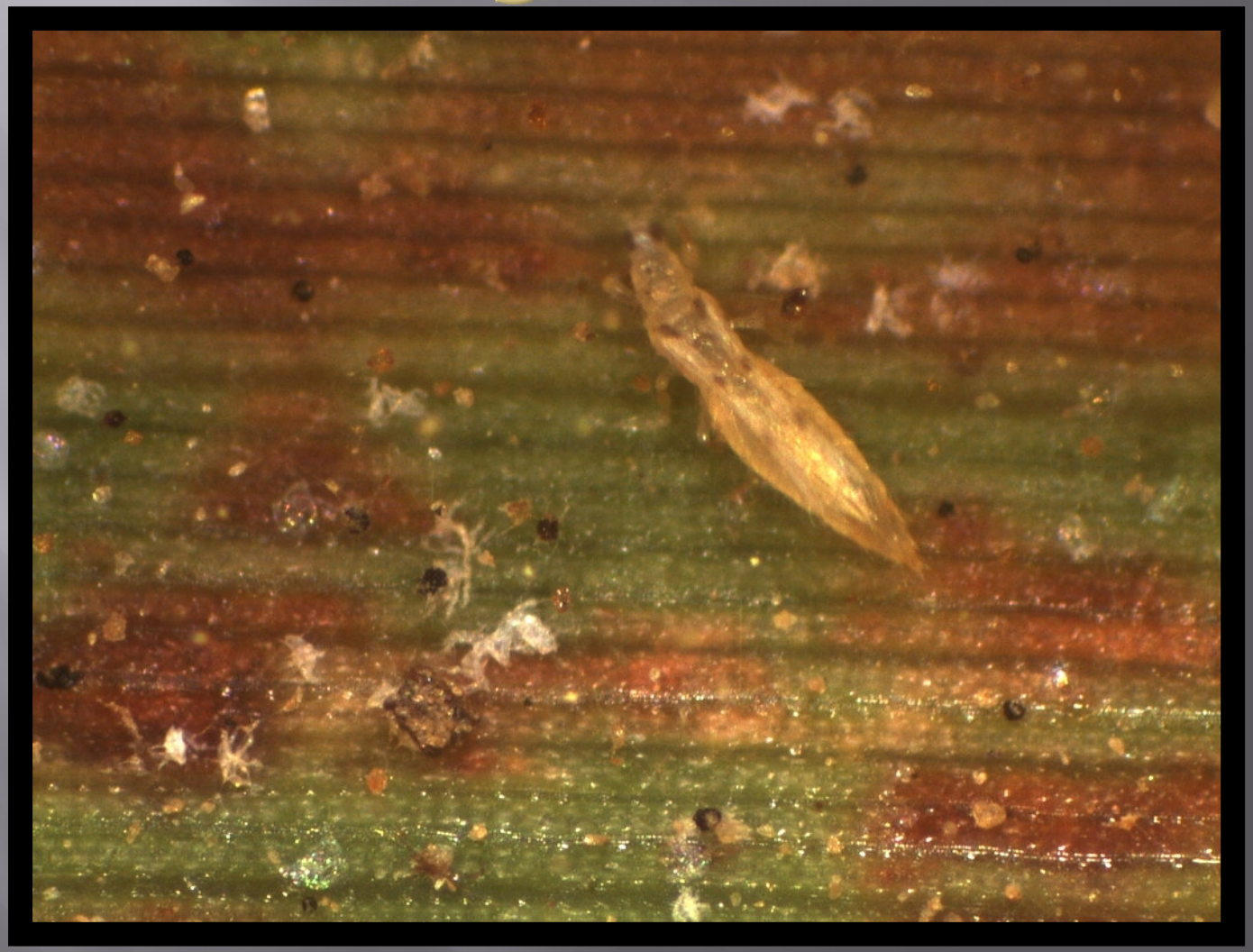
New Insect Pests In Sugarcane



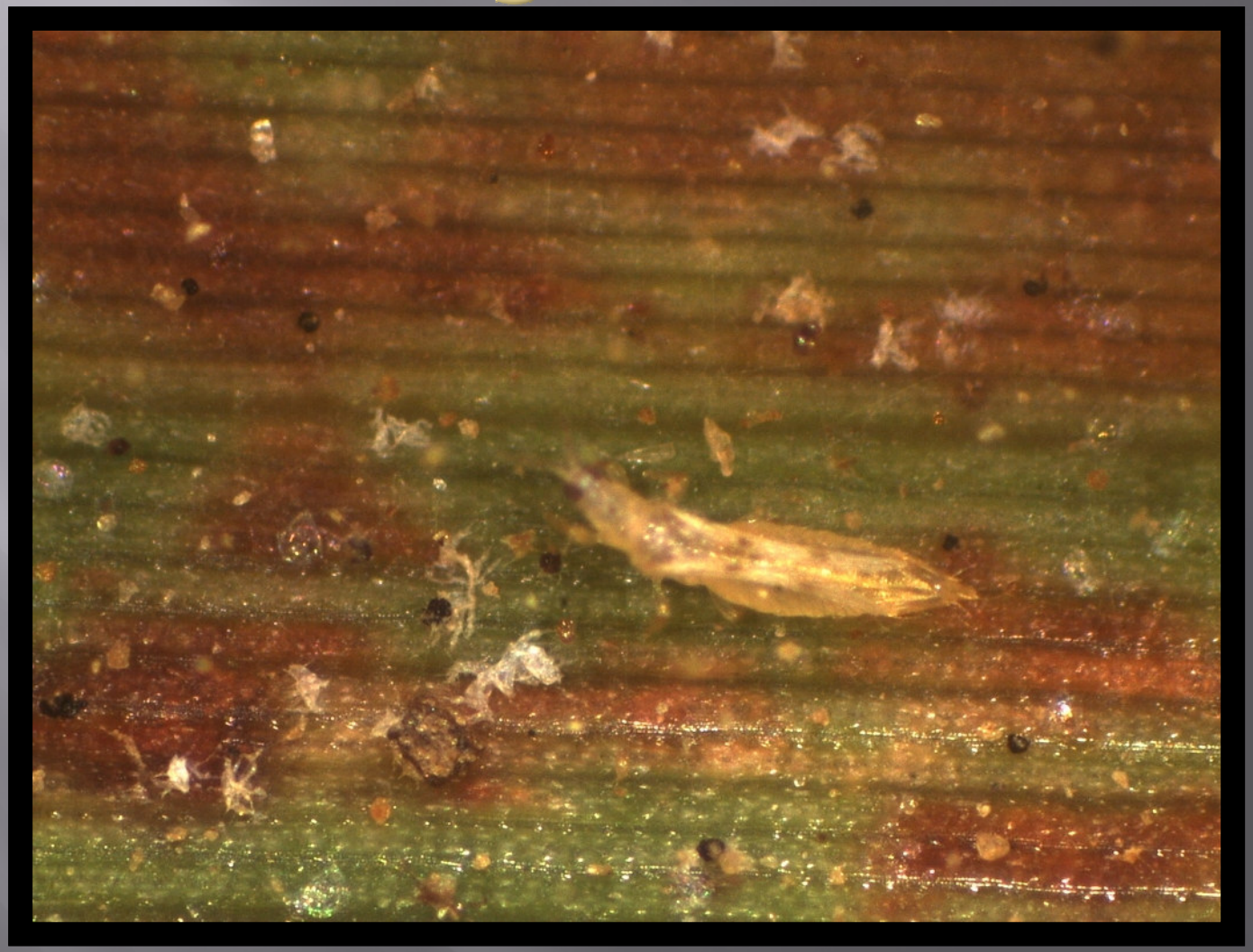
New Insect Pests In Sugarcane



New Insect Pests In Sugarcane

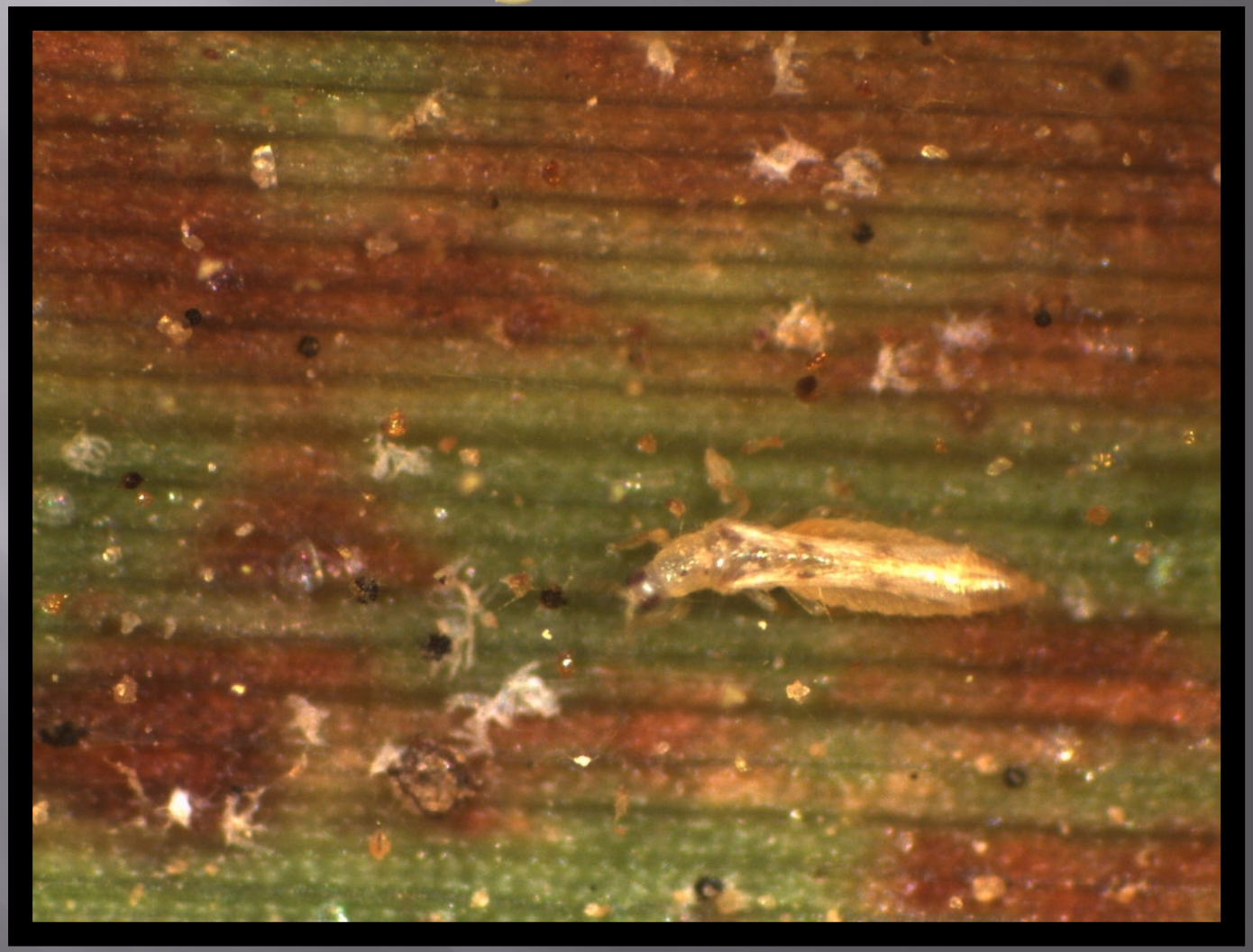


New Insect Pests In Sugarcane



New Insect Pests In Sugarcane

New Insect Pests In Sugarcane



Evaluation of Insecticidal Control of Stalkborers in Sugarcane 2009 and 2010

- **Aerial Insecticidal Control of the Mexican Rice Borer**: Lower Rio Grande Valley, TX, 2009-2010. Five commercial sugarcane fields (34-85 acres) with 10 acre treatment plots.

- **Pheromone Trap Assisted Scouting:** An action threshold of 20-25 moths/trap/wk indicated the need for larval scouting. A single insecticide application was made based on a treatment threshold of 5% of stalk infested with larvae in leaf sheaths.

Evaluation of Insecticidal Control of Stalkborers in Sugarcane 2009 and 2010

Table 1: Rio Grande Valley Large Plot Aerial Insecticide Test for MRB control, 2009 and 2010

Treatment	Rate	Year	% Bored Internodes	Emergence Per stalk
Untreated	NA	2009	16.91a	0.573
		2010	24.66a	0.715
β-cyfluthrin	2.8 oz/a	2009	12.52ab	0.458
		2010	10.13b	0.38
Novaluron	12 oz/a	2009	7.712b	0.339
		2010	7.07b	0.167

*Means which share a letter group are not significantly different (α=.05).

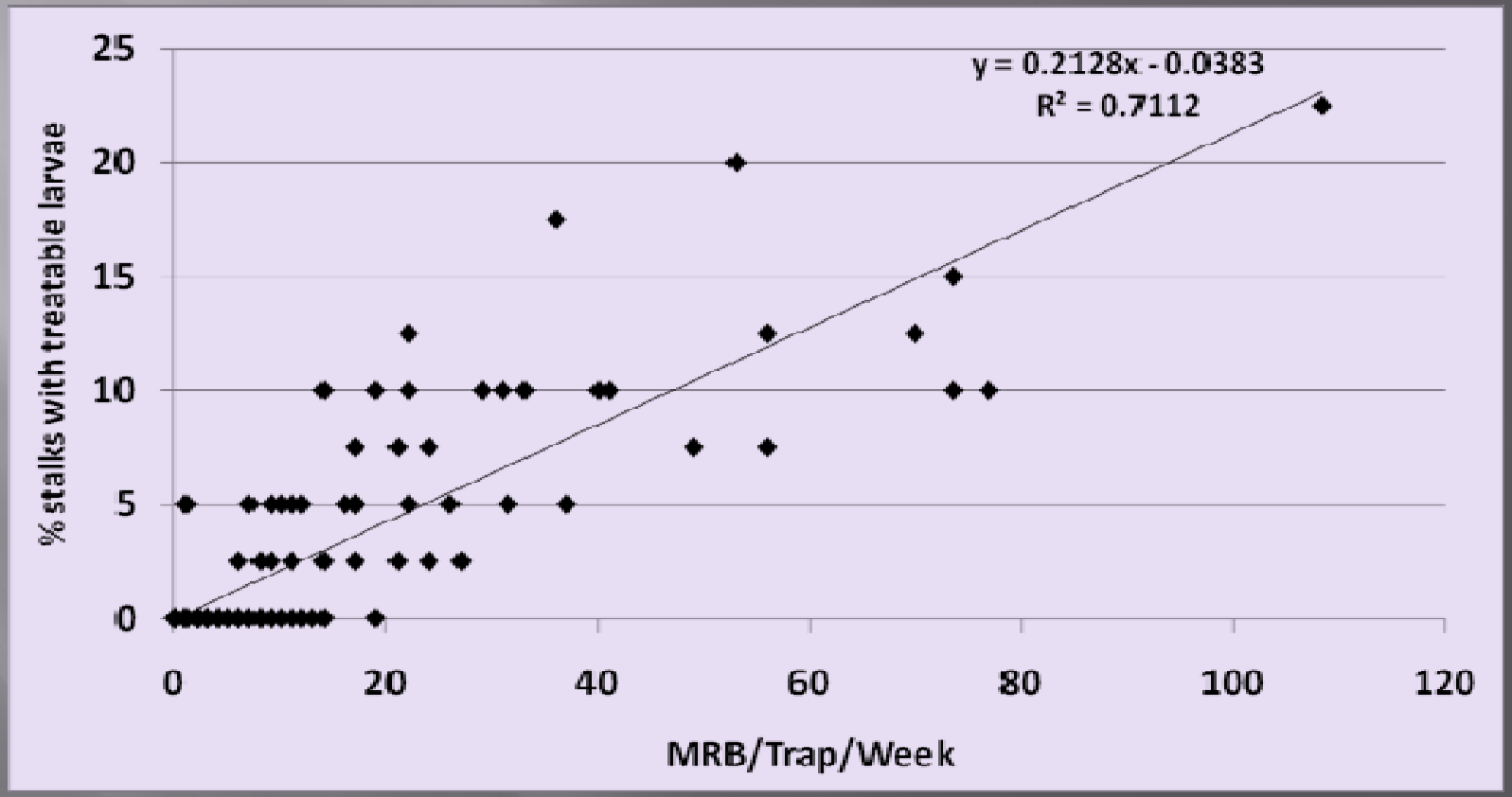
Evaluation of Insecticidal Control of Stalkborers in Sugarcane 2009 and 2010

Table 2: Sugarcane borer injury

Treatment	Rate	% Bored Internodes	Emergence Holes per Stalk
Confirm	6 oz/acre	4.92 B	0.162 A
Coragen	6.5 oz/acre	4.53 B	0.022 A
Diamond	12 oz/acre	5.42 B	0.07 A
Untreated	NA	14.9 A	0.822 A

Evaluation of Insecticidal Control of Stalkborers in Sugarcane 2009 and 2010

Figure 2 : The relationship between pheromone trap catch and larval infestation. Lower Rio Grande Valley,



Plant–Insect Ecosystems Section

ESA Liaison Presentation Regarding Work at US-EPA Office of Pesticide Programs

-Gene Reagan,
Austin C. Thompson
Professor of Entomology
Louisiana State University

ESA 58th Annual Meeting
December 12-15, 2010 San Diego, CA

Service as ESA Subject Matter Expert and Liaison to US-EPA Office of Pesticide Programs

- **Concept of Work**
  - Provide insight and perspectives toward *practical aspects* of pesticide label development (esp. insecticides and miticides).
  - Provide information and *contacts* with scientists from ESA sections, practitioners and stakeholders.
  - Participate as appropriate in working *group meetings* on pesticide registration and labeling.
  - *Facilitate use* of technical entry *information* as needed to clarify scientific issues re. public understanding and stakeholders.
- **Perspective**
  - Serve as an *academic resource* to assist EPA in making informed decisions—provide objective, non-biased information.
- **Impact Goal**
  - Direction for credible scientific cooperation.
  - Objective resource for networking information to EPA.
  - Improve and support the process of pesticide registration and regulation.

ESA Participation During Fall 2010 - Office of Pesticide Programs

- **Interactions with 4 Branch Chiefs**
  - Insecticide-Rodenticide; Insecticide Branch-Registration; Benefits and Economics Analysis; Risk Integration, Minor Use and Emergency Response.
- **Cross-discipline collaboration**
  - WSSA Liaison, Jill Schroeder (NMSU); APS Liaison, Frank Wong (UC-Davis); and Harold Coble, USDA Office of Pest Management Policy
- **Division Meetings**
  - Bedbug insecticide efficacy label review (317 labels)
  - Department of Defense/EPA pesticide registration (outside US) work group
  - Pesticide resistance work group--MOA and Management

EPA Work (contd)

- **Branch Meetings**
  - Brown marmorated stinkbug
  - Insecticide resistance management (multiple meetings)
  - Risk assessment and pesticide residues
  - Termiticide efficacy
- **AFBF meetings and other public meetings**
  - Application technology and atrazine
- **Other Issues**
  - Access to ESA publications (for non-ESA members)
  - Cross discipline approaches to resistance management (specific strategies not identical)