



Plant and Insect Diagnostic Clinic

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2014 Annual Report

• The Plant and Insect Diagnostic Clinic (PIDC) is an integral part of the ISU Integrated Pest Management Program (IPM) and the Departments of Horticulture, Agronomy, Entomology and Plant Pathology and Microbiology.



The 2014 Team of Plant Doctors. From left: Melissa Irizarry, Ed Zaworski, Caitlin Irwin, Laura Jesse. Not pictured: Erika Saalau

• We diagnose plant problems with a variety of tools including morphological-based identification as well as molecular and serological testing.

Outreach activities bring attention to the importance of diagnostics and integrated pest management.



• We provide diagnoses and IPM assistance to landscape and turfgrass companies, pest management professionals, agribusiness professionals, and growers. We also work closely with homeowners to solve problems in their gardens, landscapes, and homes.



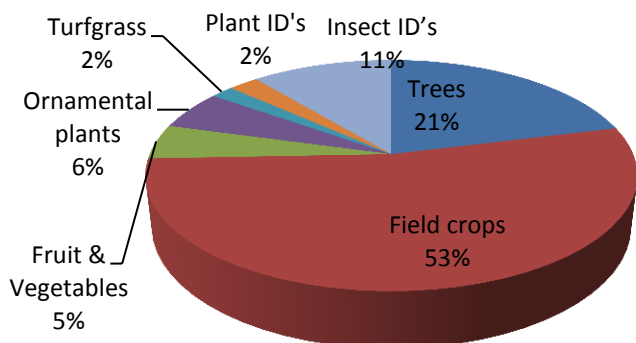
Tracking invasive insects and plant diseases across Iowa is a valuable PIDC service. Pictured here is an emerald ash borer larva.

• We diagnose physical plant and insect samples, and we process soil samples for soybean cyst nematodes and nematodes that feed on corn. We also consult through phone calls and through images sent via email.

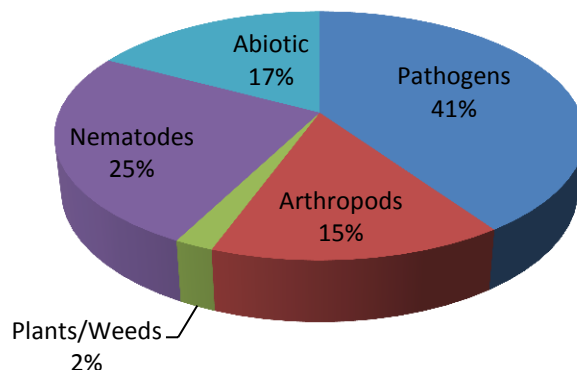
2014 Sample and Audience Contacts

Plant and Insect Samples	819
Nematode Samples	289
Email Inquiries	791
Phone Inquiries	374
Presentation Audience Numbers	1,829
Total	4,102

Distribution of 2014 Sample Types



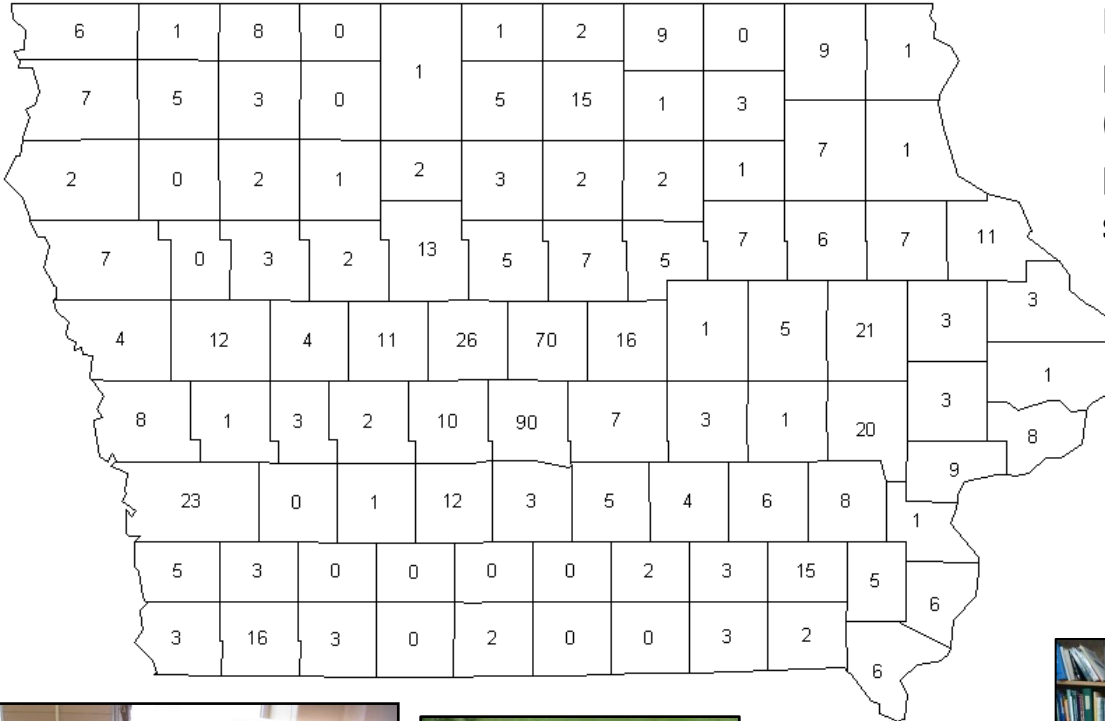
Distribution of Pest Types in 2014



Standard Clinic Service Fees

Diagnosis of plant problems	\$20
Identification of plants, weeds, insects, or mushrooms	\$10
Soybean cyst nematode egg count	\$20 (in state only)
Complete nematode count	\$35 (in state only)

2014 Clinic Activities



Number of samples processed per county (excluding soil and phytosanitary samples).



We bid farewell to Erika Saalau who took a faculty position at the University of Massachusetts.



Ashley West did an awesome job identifying mushrooms.



The 17 year cicadas emerged in Iowa!



Melissa Irizarry and Daren Mueller diagnosing soybean diseases.

Acknowledgements

Melissa Irizarry and Ashley West worked as graduate student interns and Caitlin Irwin was an undergraduate student intern providing diagnostic support for the PIDC.

Diagnosis of plant and insect problems is a team effort. Members of many departments have contributed invaluable expertise to diagnoses and clinic functions including:

Agronomy

Kendall Lamkey
Robert Hartzler
John Sawyer

Ecology and Evolution and Organismal Biology

Deb Lewis
Jim Colbert

Entomology

Sue Blodgett
Erin Hodgson
Ken Holscher
Donald Lewis
Mark Shour
John VanDyk

Horticulture

Jeff Iles
Ryan Adams
Nick Christians
Diane Cochran
Chris Currey
Cindy Haynes
Richard Jauron
Ajay Nair

Natural Resource

Ecology and Management
Sue Blodgett
Jesse Randall

Plant Pathology and Microbiology

Thomas Baum
Mark Gleason
Edward Braun
Tom Harrington
Leonor Leandro
Doug McNew
Daren Mueller
Alison Robertson
Adam Sisson
David Soh
Greg Tylka
X.B. Yang
Gary Munkvold
Jenifer Bungert
Brenda Downs



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Department of Entomology
Department of Horticulture
Department of Agronomy