Last County in Iowa Found Infested with SCN

Greg Tylka
Iowa State University, gltylka@iastate.edu

Brian Lang
Iowa State University, bjlang@iastate.edu

Follow this and additional works at: http://lib.dr.iastate.edu/cropnews

Part of the Agricultural Science Commons, Agriculture Commons, Entomology Commons, and the Plant Pathology Commons

Recommended Citation
http://lib.dr.iastate.edu/cropnews/2343

The Iowa State University Digital Repository provides access to Integrated Crop Management News for historical purposes only. Users are hereby notified that the content may be inaccurate, out of date, incomplete and/or may not meet the needs and requirements of the user. Users should make their own assessment of the information and whether it is suitable for their intended purpose. For current information on integrated crop management from Iowa State University Extension and Outreach, please visit https://crops.extension.iastate.edu/.
Last County in Iowa Found Infested with SCN

Abstract
More than 100 fields throughout Iowa were surveyed for the presence of the soybean cyst nematode (SCN) in 2016 in a project sponsored by the ISU Soybean Research Center and the Iowa Soybean Association (ISA). Soil samples were collected by Iowa State University Extension and Outreach field agronomists and ISA staff and interns and sent to the ISU Plant and Insect Diagnostic Clinic for processing.

Keywords
Plant Pathology

Disciplines
Agricultural Science | Agriculture | Entomology | Plant Pathology

This article is available at Iowa State University Digital Repository: http://lib.dr.iastate.edu/cropnews/2343
Integrated Crop Management

Last County in Iowa Found Infested with SCN

January 20, 2017

More than 100 fields throughout Iowa were surveyed for the presence of the soybean cyst nematode (SCN) in 2016 in a project sponsored by the ISU Soybean Research Center and the Iowa Soybean Association (ISA). Soil samples were collected by Iowa State University Extension and Outreach field agronomists and ISA staff and interns and sent to the ISU Plant and Insect Diagnostic Clinic for processing.

Low egg counts (50 and 100 eggs per 100 cc soil) were found in samples collected from a field in Allamakee County by ISU Extension and Outreach field agronomist Brian Lang for the project. These results were significant because SCN had been officially confirmed in every county in Iowa except Allamakee County.

Low SCN egg counts such as these often can be the result of a stray nematode egg or two in sample processing (i.e. a false positive result). So it was necessary to confirm that the samples were infested with SCN by growing susceptible soybeans for 30 days in soil collected from the field and then carefully examining the roots of the plants for the presence of newly formed, white SCN females (see figure).

![Young adult female of SCN on susceptible soybean root.](image)

A total of 14 SCN females were observed on roots of 12 different soybean plants growing in the soil collected from the field in Allamakee County. This finding represents the first discovery of SCN in Allamakee County and confirms the presence of SCN in the last of Iowa’s 99 counties.

Links to this article are strongly encouraged, and this article may be republished without further permission if published as written and if credit is given to the author, Integrated Crop Management News, and Iowa State University Extension and Outreach. If this article is to be used in any other manner, permission from the author is required. This
article was originally published on January 20, 2017. The information contained within may not be the most current and accurate depending on when it is accessed.

**Category:** Crop Production  Plant Diseases

**Crop:**
Soybean

**Tags:** SCN

**Authors:**

**Greg Tylka** *Professor*
Dr. Greg Tylka is a professor in the Department of Plant Pathology and Microbiology at Iowa State University with extension and research responsibilities for management of plant-parasitic nematodes. The focus of Dr. Tylka’s research program at Iowa State University is primarily the soybean cyst n...

**Brian Lang** *Field Agronomist in NE Iowa*
Brian Lang conducts Iowa State University Extension and Outreach programs in crop production and protection in northeast Iowa. Frequent clients include farmers, ag chemical and fertilizer dealers, seed dealers, crop consultants, and farm managers. Provide timely in-season crop management in...