

6-27-2005

Aphid numbers up, but less than during 2003

Marlin E. Rice

Iowa State University, merice@iastate.edu

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



Part of the [Agriculture Commons](#), and the [Entomology Commons](#)

Recommended Citation

Rice, Marlin E., "Aphid numbers up, but less than during 2003" (2005). *Integrated Crop Management News*. 2386.
<http://lib.dr.iastate.edu/cropnews/2386>

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 Users are hereby notified that the content may be inaccurate, out of date, incomplete and/or may not meet the needs and requirements of the user.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/>.

Aphid numbers up, but less than during 2003

Abstract

Brian Lang, extension field specialist, Decorah, has been collecting weekly data on soybean aphids from northeastern Iowa during the past four years. The two tables show the percent of soybean plants with aphids and the average number of aphids per plant. Both of these categories show an aphid population that is slightly larger and occurring on more plants than at this same time last year. However, the population does appear to be much smaller than the outbreak population that we experienced during 2003.

Disciplines

Agriculture | Entomology

Collecting soil samples from fields suspected of being infested with SCN is an alternative to digging soybean roots and looking for adult females and cysts. Soil sampling can be done at any time during the growing season. Soil samples should be submitted to a private soil testing laboratory that offers nematode testing or to the Iowa State University (ISU) Plant Disease Clinic for extraction and counting of SCN eggs. Samples sent to the ISU Plant Disease Clinic should be accompanied by a completed *Plant Nematode Sample Submission Form*, ISU Extension publication PD 32, available at www.extension.iastate.edu/Publications/PD32.pdf or by calling (515) 294-5247. There is a \$15 charge for processing *each* sample. Detailed instructions on how to collect a representative soil sample for detection of SCN can be found on the back of PD 32 (also see general tips on page 133).

ISU Extension publication IPM 47s, *Scouting for Soybean Cyst Nematode*, illustrates the recommended procedures for scouting for SCN. Single copies of this publication are available free of charge from county extension offices or from the Extension Distribution



An aerial view of damage to soybeans from soybean cyst nematode. (Greg Tylka)

Center by calling (515) 294-5247. Additional information about SCN can be found on the Web at www.soybeancyst.info.

Greg Tylka is a professor of plant pathology with extension and research responsibilities in management of plant-parasitic nematodes.



Insects and Mites

Aphid numbers up, but less than during 2003

by Marlin E. Rice, Department of Entomology

Brian Lang, extension field specialist, Decorah, has been collecting weekly data on soybean aphids from northeastern Iowa during the past four years. The two tables show the percent of soybean plants with aphids and the average number of aphids per plant. Both of these categories show an aphid population that is slightly larger and occurring on more plants than at this same time last year. However, the population does appear to be much smaller than the outbreak population that we experienced during 2003.

Brian also has seen some soybeans with about 1,000 aphids per plant collected near Fort Atkinson, Winneshiek County. The co-op agronomist who found the infestation reported that only part of the field had significant activity, and the population was estimated to average 400 aphids per plant. Field conditions were very dry in this part of the state, which adds to the concern of early season soybean stress and a good environment for aphid buildup.

Marlin E. Rice is a professor of entomology with extension and research responsibilities in field and forage crops.

Percent of soybean plants with soybean aphids, Decorah, Iowa.

Date	2002	2003	2004	2005
June 1	—	—	0	6
June 7	—	—	0	15
June 15	—	40	0	33
June 22	7	90	0	31
June 29	15	100	0	
July 6	70	100	4	
July 13	93	100	8	

Average number of soybean aphids per plant, Decorah, Iowa.

Date	2002	2003	2004	2005
June 1	—	—	0	0.1
June 7	—	—	0	1.4
June 15	—	10	0	2.5
June 22	1	115	0	4.0
June 29	2	341	0	
July 6	14	745	0.5	
July 13	25	2,803	1	