

5-7-2007

## 2007 soybean rust sentinel plots

Ralph von Qualen  
*Iowa State University*

Xiao-Bing Yang  
*Iowa State University, xbyang@iastate.edu*

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

 Part of the [Agricultural Science Commons](#), [Agriculture Commons](#), and the [Plant Pathology Commons](#)

---

### Recommended Citation

von Qualen, Ralph and Yang, Xiao-Bing, "2007 soybean rust sentinel plots" (2007). *Integrated Crop Management News*. 1076.  
<http://lib.dr.iastate.edu/cropnews/1076>

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 Users are hereby notified that the content may be inaccurate, out of date, incomplete and/or may not meet the needs and requirements of the user.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

---

## 2007 soybean rust sentinel plots

### **Abstract**

Cool, wet conditions. That is what has delayed planting in Iowa. These are also the conditions that favor the development of Asian soybean rust (SBR). Don't worry, current conditions do not make it more likely for rust to appear in Iowa this year. The causal agent, *Phakopsora pachyrhizi*, cannot overwinter in the Midwest. In order to infect Midwestern soybeans, viable spores must be blown from southern Florida or Texas and arrive when there are cool, moist conditions.

### **Keywords**

Plant Pathology

### **Disciplines**

Agricultural Science | Agriculture | Plant Pathology

# INTEGRATED CROP MANAGEMENT

Search

Get the latest research-based information on crops. [Sign up to be notified](#) when new content is available!

ICM > 2007 > IC-498 (9) -- May 7, 2007

## Current Newsletter

You are viewing **archives** for the newsletter from 1993-2007. For current news, see [Integrated Crop Management News](#).

## Archives 1993-2007



Announcements



Crop Production



Insects and Mites



Pesticide Education



Plant Diseases



Soils



Weed Management

Image Gallery

## Printable Version

Printable version of this page

## Related Articles

Fungicides for soybean: Considerations for 2008  
**December 10, 2007**

Soybean rust: A year in review  
**December 10, 2007**

Soybean rust found in an Iowa field  
**October 1, 2007**

Summer scouting in soybean: Top dieback

## 2007 soybean rust sentinel plots

by *Ralph von Qualen and X. B. Yang, Department of Plant Pathology*

Cool, wet conditions. That is what has delayed planting in Iowa. These are also the conditions that favor the development of Asian soybean rust (SBR).

Don't worry, current conditions do not make it more likely for rust to appear in Iowa this year. The causal agent, *Phakopsora pachyrhizi*, cannot overwinter in the Midwest. In order to infect Midwestern soybeans, viable spores must be blown from southern Florida or Texas and arrive when there are cool, moist conditions.

Late in last year's growing season, the disease was found as far north as Illinois and Indiana. A late frost and dry conditions in the southeastern United States this spring have limited soybean rust's advance so far this year. Nevertheless, conditions can change, and we need to remain vigilant to protect Iowa's soybean crop.

The best method we have to monitor the development and advancement of SBR is through our sentinel plots system. This system is sponsored by the North Central Soybean Research Project, the United Soybean Board, and the United States Department of Agriculture. These plots of soybeans or kudzu stretch from Florida to Texas and up through the Midwest. In the southern states, sentinel plots and kudzu patches are already being scouted. Soybean rust has been detected in Florida, Georgia, Alabama, and Texas. The infected field in Texas was destroyed. One can easily see which of the plots have been scouted and in which plots soybean rust has been found by going to [www.sbrusa.net](http://www.sbrusa.net).

In Iowa, we will have 20 plots this year (see map and accompanying table), and we have improved plot distribution throughout the state. We thank Croplan Genetics; Iowa State University Research Farms; Syngenta Seed; Pioneer HiBred; UAP Midwest; and Cornerstone Seeds of Hamburg, Iowa, for assistance in planting and arranging these plots.

As of May 6, plots at Kanawha, Crawfordsville, and Chariton have been planted. Professionals will monitor Iowa's sentinel plots for SBR throughout the season. Their reports will be posted on the national Web site listed above, and producers will be informed of any threat from this disease.

and other diseases

**August 6, 2007**

Soybean rust update  
and outlook

**July 23, 2007**

Soybean rust update  
and outlook - July 2,  
2007

**July 2, 2007**

Another fungicide  
approved for soybean  
rust in Iowa

**June 25, 2007**

Iowa State plant  
pathologists detect crop  
diseases from satellites

**June 25, 2007**

Soybean rust update  
and outlook, June 2007

**June 11, 2007**

Monitoring soybean rust

**June 11, 2007**

Iowa officials find no  
additional evidence of  
Asian soybean rust

**May 21, 2007**



*Counties with green indicate presence of a sentinel plot.*

**Locations of sentinel plots in Iowa, 2007.**

<b>Town</b>	<b>County</b>
Waterloo	Black Hawk
Newell	Buena Vista
DeWitt	Clinton
Manchester	Delaware
Mediapolis	Des Moines
Oelwein	Fayette
Nashua	Floyd
Sidney	Fremont
Yale	Guthrie
Webster City	Hamilton
Kanawha	Hancock
Kalona	Iowa
Chariton	Lucas
Oskaloosa	Mahaska
Castana	Monona
Fruitland	Muscatine
Lewis	Pottawattamie
Sioux Center	Sioux
Ames	Story
Crawfordsville	Washington

*Ralph von Qualen is an independent plant pathologist assisting with the sentinel plots. X. B. Yang is a professor of plant pathology with research and extension responsibilities in soybean diseases.*

This article originally appeared on page 139 of the IC-498 (9) -- May 7, 2007 issue.

