

2008 Soybean Cyst Nematode Survey

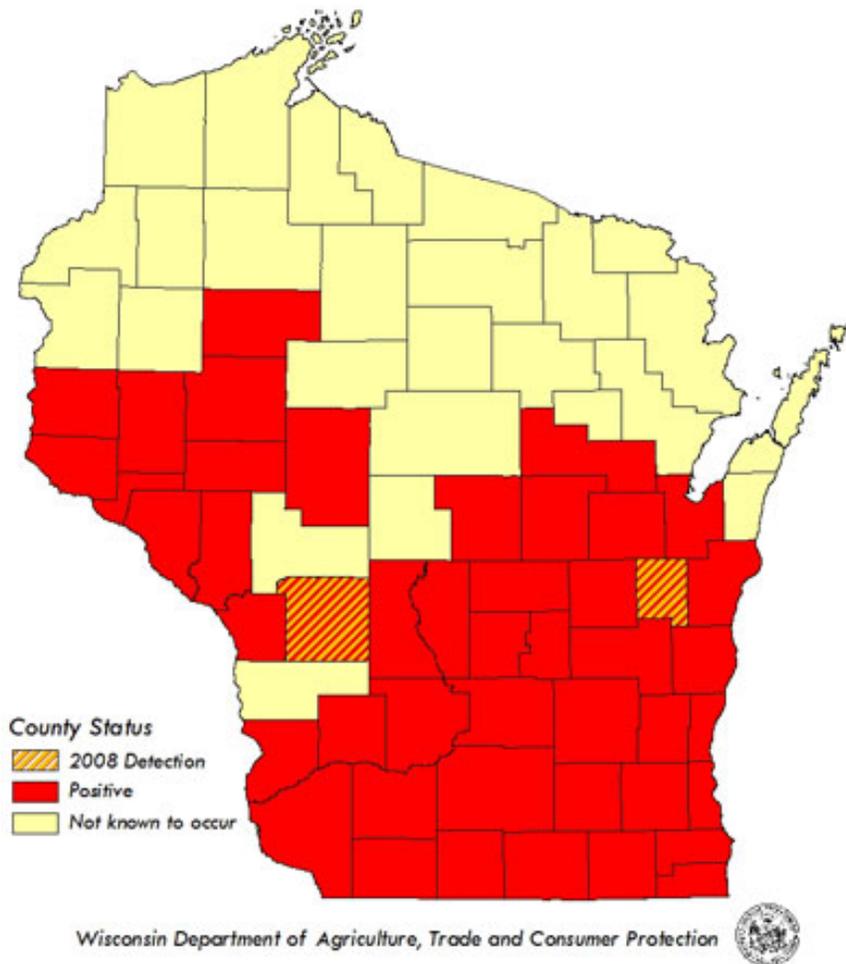


Figure 1. Wisconsin distribution of soybean cyst nematode by county.

Often SCN goes undetected due to lack of above-ground symptoms. Despite the lack of symptoms, yield loss may still occur. An accurate assessment of SCN in individual fields is necessary for effective management. Soybean growers in all parts of the state are urged to sample their fields for SCN. Testing is available through the UW Plant Disease Diagnostics Laboratory at <http://www.plantpath.wisc.edu/soyhealth/scnsamp.htm>, or through private laboratories. Fields may be sampled at any time that the soil is not frozen.

The year 2008 marked 30 years of annual state-wide survey for Soybean Cyst Nematode (SCN) by DATCP and University of Wisconsin staff (Figure 2).

SCN (*Heterodera glycines*) was first detected in the U.S. in 1954, in Hanover County, North Carolina. Survey efforts in 1957, 1958 and 1962 did not find the nematode in Wisconsin; the first report in the state was made in 1981, in Racine County.

Figure 1 shows the current distribution of SCN in Wisconsin. In 2008 SCN was detected in two new Wisconsin counties (Monroe and Calumet), bringing the total number of counties where the nematode has been found to 46.

Soybean acreage in the counties where SCN has been detected comprises 85.5% of the soybean crop in the state.

SCN is the greatest yield-reducing pest and disease problem in the U.S. In 2007, SCN reduced yields in the U.S. by an estimated 94 million bushels (Wrather & Koenning). This is three times the loss attributed to all seedling diseases combined.

Wisconsin Soybean Cyst Nematode Survey 1978 to 2008

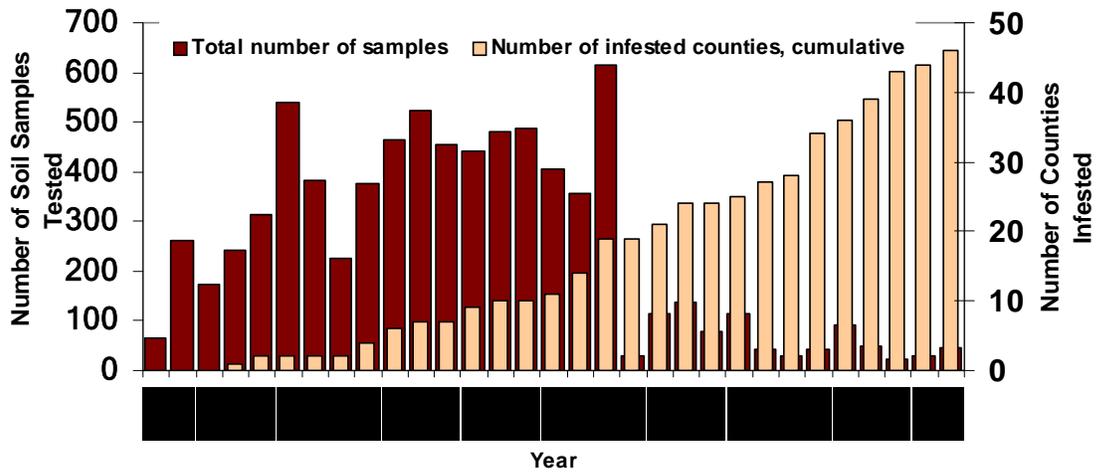


Figure 2. The number of soil samples and Wisconsin counties tested for soybean cyst nematode.

Reference

J. A. Wrather, University of Missouri-Delta Center, P.O. Box 160, Portageville, MO 63873, and Steve Koenning, North Carolina State University, "Soybean Disease Loss Estimates for the United States, 1996-2007".

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