

## Disease Note.

[Previous View](#)[APSnet Home](#)[Plant Disease Home](#)

**First Report of *Heterodera glycines* on Soybean in South Dakota.** J. D. Smolik, Plant Science Department, South Dakota State University, Brookings, 57007. J. L. Jones, and D. L. Gallenberg, Plant Science Department, South Dakota State University, Brookings, 57007; and J. P. Gille, Union County Extension Office, Elk Point, 57025. *Plant Dis.* 80:224. Accepted for publication 21 December 1995. Copyright 1996 The American Phytopathological Society. DOI: 10.1094/PD-80-0224F.

Soybean fields in 12 eastern South Dakota counties were surveyed for the soybean cyst nematode (*Heterodera glycines* Ichinohe) during the 1995 growing season. The 255 fields included in the survey had a 10- to 15-year history of soybean production (primarily in rotation with corn), and were selected with the aid of local extension service agents. In the initial phase of the survey, *H. glycines* was detected in a single field of the 23 sampled in Union County, which is located in the extreme southeastern corner of South Dakota. Twenty-two additional fields within 2 to 3 km of the original field were assayed for *H. glycines*. The nematode was confirmed in 10 (45%) fields. Nematode identification was based on cyst morphology (2), presence of males, and reproduction on soybean in greenhouse studies. Reproduction of the original *H. glycines* isolate on the race differentials (1) was consistent with the definition of race 3.

*References:* (1) A. M. Golden et al. *Plant Dis. Rep.* 54:544, 1970. (2) R. H. Mulvey and A. M. Golden. *J. Nematol.* 15:1, 1983.

