

SOYBEAN (*Glycine max*)
 Soybean cyst nematode:
Heterodera glycines, race 1

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UNIFORM SOYBEAN CYST NEMATODE VARIETY EVALUATIONS, GROUP IV, 2003:

Eleven numbered lines and two named cultivars were evaluated for adaptation to Delaware growing conditions and resistance to race 1. Variety evaluations were conducted at the Research and Education Center near Georgetown in Sussex County on land known to be infested with race 1 of the soybean cyst nematode (SCN). Plots were planted in a loamy sand soil (sand 82 percent, silt 9 percent, and clay 9 percent) with a pH of 5.8 on July 1 following a previous soybean crop. Plots consisted of five rows, 23 feet long, spaced 15 inches apart. The plots were arranged in a randomized, complete block design with four replications. Twenty-one feet of all five rows of each plot were combine harvested on November 17.

The season was very wet. LN97-15076 and Macon are the SCN susceptible standards for group III and IV respectively. LS93-0375 and Ina are the SCN resistant standard varieties. The maturity ratings are the number of days to maturity compared to the standard LN97-15076. Little lodging was observed. This test is part of a nationwide test of potential SCN-resistant varieties being developed by public breeders. It is conducted at 36 locations in 12 states and Canada and supported by the United Soybean Board.

Entry (Group IV)	Yield		Maturity date	Lodging score	Height inches
	bu/a	rank			
LN97-15076	17.5	13	8-Oct	1.5	18.25
Macon (III)	21.0	10	0	1.75	17.0
LS93-0375 (SCN)	20.3	12	4	1.0	19.0
Ina (SCN)	22.3	7	4	1.75	20.0
HC99-2752	22.5	5	2	1.5	20.75
LD99-12213	21.7	9	3	1.25	18.0
LS98-0582	22.4	6	3	2.25	20.0
LS99-2235	52.9	1	2	2.25	18.25
LS99-3346	22.2	8	4	1.75	18.0
Md99-5144	24.6	2	6	2.0	19.5
Md99-5720	19.7	12	2	2.25	18.5
SS98-3905	20.7	11	5	1.75	17.5
SS98-7851	23.0	3	7	2.25	19.5
Average	24.06			1.8	18.8
LSD (.05)	25			0.7	2.0
CV %	72.66			25.7	7.2