

Table 1. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group I soybean varieties in northern Iowa in an SCN-infested field (Kanawha) and a noninfested field (Algona) in 2000.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
Kruger	K-191 RR/SCN	PI 88788	7.9	30.3	1.5	47.9	8	988	10.7	36.8	1.8	51.5	5
Latham	352CN Brand	PI 88788	8.0	35.8	3.3	56.0	2	1,138	9.9	44.0	3.3	55.1	1
Public	Bell	PI 88788	7.4	32.3	2.0	50.3	5	763	8.6	37.8	2.8	47.7	9
Public	BSR 101 (S) ²	----	6.7	33.8	1.8	48.4	6	1,388	8.7	40.5	3.0	51.1	6
Public	Freeborn	PI 88788	6.6	31.0	2.0	48.1	7	1,500	8.2	36.3	2.5	49.5	8
Public	Hardin 91 (S) ²	----	7.0	32.5	3.0	43.5	9	1,525	8.1	41.0	3.5	52.1	4
Public	IA1008	PI 88788	6.9	34.8	1.3	57.1	1	2,325	7.7	41.8	2.3	53.4	3
Stine	1892-2	PI 88788	8.8	29.5	2.0	54.1	3	1,213	10.2	33.5	2.3	54.9	2
Thompson	T-3171 CN	Peking	8.1	30.3	1.8	42.2	10	450	10.1	34.5	1.8	45.2	10
Thompson	T-3196 CN	PI 88788	7.4	28.8	2.0	50.8	4	700	8.7	34.5	2.8	49.6	7
LSD ³		----	NS	3.3	0.7	5.4	----	NS	NS	3.4	0.7	4.0	----

Values presented in table are means; each variety was grown in four replicate plots in each field. Infested plots were planted on 1 May 2000 and harvested on 28 September 2000. Noninfested plots were planted on 13 May 2000 and harvested on 12 October 2000.

Entries are listed in alphabetical order by brand, then alphabetical and ascending numerical order by variety.

¹Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 2,785 eggs per 100 cc soil; field infested with race 3 SCN.

²Susceptible check variety.

³Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties.

Table 2. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group II soybean varieties in northern Iowa in an SCN-infested field (Kanawha) and a noninfested field (Algona) in 2000.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
AgriPro	AP 2212N	PI 88788	7.7	33.3	2.0	50.6	30	2,188	9.1	38.5	2.8	49.7	32
Asgrow	AG2201	PI 88788	8.5	33.3	2.0	49.7	34	1,350	9.1	38.3	3.0	51.4	26
Dairyland	DSR-232/RR	PI 88788	8.2	30.0	1.3	53.7	11	738	10.2	33.5	2.0	54.0	15
Dairyland	DSR-275	PI 88788	7.6	35.8	1.5	46.6	38	938	10.0	42.8	1.8	48.3	36
Dennis Ewing	DeSoy 233 RR/SCN	PI 88788	8.0	33.0	1.0	52.9	18	875	7.7	38.3	2.0	53.6	16
Dennis Ewing	DeSoy 254 RR/SCN	PI 88788	8.2	29.0	1.8	55.8	3	2,250	8.9	31.5	2.0	52.1	23
Garst	D259N	PI 88788	8.1	31.5	2.3	53.2	16	450	10.1	35.3	2.0	54.2	12
Golden Harvest	H-2348RR	PI 88788	7.2	34.5	2.3	51.8	24	1,100	11.2	38.0	2.8	48.2	37
Growmark	RT 2396	PI 88788	7.9	31.5	2.0	49.0	37	1,713	8.5	40.5	2.3	54.2	12
Jacobsen	J701CN	Not Given	8.3	29.5	2.0	54.9	6	638	11.1	34.8	2.5	55.5	6
Kruger	K-252 RR/SCN	PI 88788	7.7	31.0	1.8	56.4	1	813	10.6	31.8	1.5	53.2	19
Kruger	K-2220+ SCN	PI 88788	8.5	30.8	2.0	51.7	26	663	10.2	35.3	2.3	58.5	1
KSC/Challenger	K-232 RR/SCN	PI 88788	8.5	33.8	2.0	52.9	18	1,175	10.6	41.0	2.8	50.1	31
KSC/Challenger	K-2220 SCN	PI 88788	7.1	30.0	1.8	54.2	8	925	9.7	35.8	2.0	55.8	5
Latham	656RR (S) ²	----	7.8	29.5	1.8	49.1	36	1,325	9.8	31.8	1.8	52.4	21
Mark Seed	MRK 00CN26CTB	Not Given	8.3	36.5	1.8	49.9	33	800	9.2	37.8	2.0	48.6	35
Mark Seed	MRK 0124CTA	Not Given	7.2	32.0	1.8	51.8	24	1,875	10.4	34.3	2.0	55.1	7
Mark Seed	MRK 97CN22CTB	Not Given	7.9	36.0	3.0	53.1	17	1,138	10.7	44.5	3.3	52.3	22
Mycogen	5212N	PI 88788	7.9	32.0	1.5	51.7	26	1,150	9.6	36.3	2.0	50.5	30
Ottilie	RO 8235 RRN	PI 88788	8.7	33.0	2.0	53.8	10	2,163	12.0	37.8	2.3	51.8	25
Ottilie	RO 8275 RRN	PI 88788	7.8	31.8	1.3	51.4	29	913	8.9	36.3	2.0	50.6	28
Pioneer	92B71 (S) ²	----	8.1	31.0	1.5	50.4	31	950	11.6	37.3	2.3	49.7	32
Pioneer	9233 (S) ²	----	8.6	31.3	2.0	51.9	23	2,863	8.7	39.8	2.3	54.4	11
Pioneer	9234	Peking	7.1	33.0	2.0	54.1	9	1,275	9.4	39.0	2.8	51.0	27
Prairie Brand	PB-210N	PI 88788	8.2	29.0	2.0	52.2	22	1,288	10.0	32.8	2.0	56.7	4
Prairie Brand	PB-2204NRR	PI 88788	9.5	30.3	1.5	52.4	21	1,863	10.7	33.8	2.0	54.1	14
Prairie Brand	PB-2309NRR	PI 88788	6.7	34.0	1.8	50.2	32	1,013	8.8	41.0	2.8	50.6	28

Table 2. Continued.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field					
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	
ProfiSeed	PS 422CN RR	PI 88788	6.3	32.0	1.5	55.0	4	550	8.5	38.0	2.3	54.7	9	
ProfiSeed	PS 423CN RR	PI 88788	8.1	33.8	2.8	54.9	6	1,538	10.7	40.5	2.8	53.3	17	
Public	Dwight	PI 88788	8.1	34.3	2.0	56.0	2	438	10.6	37.5	2.5	55.1	7	
Public	IA 2021 (S) ²	----	7.4	28.8	2.3	49.4	35	1,550	11.4	35.3	3.0	57.2	3	
Public	IA 2036	PI 88788	7.8	37.0	3.3	52.7	20	3,613	9.8	45.5	4.0	53.3	17	
Public	Kenwood 94 (S) ²	----	7.5	33.8	2.8	51.5	28	4,450	10.1	40.0	2.8	51.9	24	
Ramy International	R2200CN	PI 88788	8.6	33.8	2.5	55.0	4	750	9.1	34.5	3.3	57.8	2	
Ramy International	R2350CNRR	PI 88788	7.0	31.0	1.3	53.4	13	1,050	9.3	38.5	2.3	47.8	38	
Sand Seed	SOI 201N	PI 88788	7.4	36.5	2.8	53.4	13	2,075	9.8	44.5	3.3	54.7	9	
Stine	2202-4	PI 88788	8.8	32.8	1.8	53.6	12	488	9.5	38.0	2.3	52.8	20	
Wilson	2380 RR/SCN	PI 88788	7.4	33.0	2.0	53.4	13	2,313	9.8	36.3	2.5	49.7	32	
LSD ³			----	1.4	3.1	0.7	NS	----	NS	NS	3.8	0.6	4.7	----

Values presented in table are means; each variety was grown in four replicate plots in each field. Infested plots were planted on 1 May 2000 and harvested on 28 September 2000. Noninfested plots were planted on 13 May 2000 and harvested on 12 October 2000.

Entries are listed in alphabetical order by brand, then alphabetical and ascending numerical order by variety.

¹ Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 3,015 eggs per 100 cc soil; field infested with race 3 SCN.

² Susceptible check variety.

³ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties.

Table 3. Average soybean cyst nematode (SCN) reproduction and agronomic performance of SCN-resistant and susceptible maturity group I and II soybean varieties in an SCN-infested field (Kanawha) and a noninfested field (Algona) in northern Iowa in 2000.

	Yield - SCN-Infested Field (bu/acre)			Final SCN Population Densities (eggs per 100 cc soil)			Yield - Noninfested Field (bu/acre)		
	Resistant Varieties	Susceptible Varieties	LSD ¹	Resistant Varieties	Susceptible Varieties	LSD ¹	Resistant Varieties	Susceptible Varieties	LSD ¹
Maturity Group I	50.8	46.0	NS	1,045	1,456	NS	51.3	51.6	NS
Maturity Group II	52.8	50.5	1.8	1,251	2,228	785	52.9	53.1	NS

Infested plots were planted on 1 May 2000 and harvested on 28 September 2000. Noninfested plots were planted on 13 May 2000 and harvested on 12 October 2000.

¹ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties; average initial SCN population 2,966 eggs per 100 cc soil; field infested with race 3 SCN.

Table 4. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group II soybean varieties in central Iowa in an SCN-infested field (Ames) and a noninfested field (Boxholm) in 2000.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
AgriPro	AP 2212N	PI 88788	6.9	26.5	1.5	36.5	32	5,513	10.0	30.8	2.5	42.7	24
Asgrow	AG2601	PI 88788	7.3	26.0	1.5	42.6	26	238	8.3	34.0	2.0	43.1	22
Dairyland	DSR-232/RR	PI 88788	7.8	26.0	2.0	44.5	22	6,825	10.6	31.5	1.8	47.1	3
Dairyland	DSR-275	PI 88788	7.5	33.5	1.8	44.3	23	1,613	9.8	40.3	1.8	37.8	33
Dekalb	DKB26-52	PI 88788	7.2	33.3	2.0	49.5	10	775	10.2	37.0	1.8	41.8	27
Dennis Ewing	DeSoy 254 RR/SCN	PI 88788	7.2	27.0	2.0	48.2	11	7,200	9.6	30.3	1.5	44.1	16
Dennis Ewing	DeSoy 282 RR/SCN	PI 88788	8.3	32.5	2.0	47.4	13	1,350	8.4	34.5	1.8	46.3	6
Garst	D259N	PI 88788	7.0	25.0	2.0	51.3	5	963	8.5	34.3	2.0	46.2	7
Growmark	HS 2606	PI 88788	6.4	29.8	1.5	40.3	28	1,800	6.2	32.0	2.0	43.9	17
Growmark	HS 2791	PI 88788	5.8	31.5	2.0	45.9	18	938	8.2	35.8	1.3	41.0	28
Kruger	K-252 RR/SCN	PI 88788	8.2	25.5	1.5	46.6	17	3,650	9.1	30.5	1.8	45.9	9
Kruger	K-2666 SCN	PI 88788	6.9	33.0	2.3	51.1	6	2,075	9.6	35.3	2.0	43.6	20
Latham	827RRN Brand	PI 88788	8.2	32.5	2.0	50.0	8	4,275	9.2	38.5	1.5	40.4	30
Mark Seed	MRK 99CN28	Not Given	8.1	31.3	2.0	41.2	27	16,738	10.4	37.3	2.5	45.7	10
Mark Seed	MRK 9927CTA	Not Given	8.3	29.8	2.0	38.7	30	7,088	9.8	35.0	2.3	45.1	12
Ottilie	RO 8235 RRN	PI 88788	8.5	29.8	2.0	44.1	24	8,075	8.6	33.8	2.3	44.2	15
Ottilie	RO 8275 RRN	PI 88788	8.9	29.5	1.8	45.4	20	875	8.7	34.5	2.3	46.1	8
Pioneer	92B71 (S) ²	----	7.8	27.0	1.8	39.4	29	5,700	8.2	32.0	2.0	43.2	21
Pioneer	9234	Peking	6.7	29.0	2.5	53.3	2	988	8.8	34.8	2.5	39.8	31
Prairie Brand	PB-232N	PI 88788	6.8	25.8	2.3	47.1	14	1,225	9.1	30.5	2.0	49.0	1
Prairie Brand	PB-2204NRR	PI 88788	7.4	25.5	1.5	45.7	19	1,150	9.9	30.5	1.5	46.8	5
Prairie Brand	PB-2550NRR	PI 88788	7.5	26.0	1.8	43.7	25	3,300	9.9	29.8	1.3	44.3	14
ProfiSeed	PS 2600N	PI 88788	6.7	33.3	2.0	52.0	4	1,250	10.0	36.3	2.0	43.7	19
Public	Dwight	PI 88788	8.0	28.3	2.0	46.9	16	5,313	9.9	32.3	2.0	41.9	26
Public	IA2021 (S) ²	----	6.2	25.0	2.5	34.8	33	7,150	8.5	31.3	3.3	42.0	25

Table 4. Continued.

Brand	Variety	Resistance Source	----- SCN-Infested Field -----						----- Noninfested Field -----				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
Public	IA2036	PI 88788	6.2	30.5	2.8	37.4	31	1,225	8.7	39.0	2.8	40.7	29
Public	Jack	PI 88788	8.0	41.8	3.3	47.6	12	1,125	9.7	42.5	2.8	37.6	34
Public	Kenwood 94 (S) ²	----	6.9	27.0	2.5	33.8	34	11,650	8.9	35.3	3.0	39.8	31
Sand Seed	SOI 235N/RR	Not Given	7.7	30.3	2.3	44.6	21	2,950	8.5	34.0	3.0	45.2	11
Stine	2402-2	Not Given	8.1	29.8	1.8	47.0	15	1,675	9.1	33.3	2.5	44.5	13
Stine	2488 (S) ²	----	8.1	28.0	2.0	50.5	7	8,625	8.9	33.3	1.3	47.6	2
Stine	2502-4	PI 88788	7.7	32.3	2.0	49.8	9	563	8.2	33.0	1.5	47.1	3
Thompson	T-3246 CN	PI 88788	8.2	35.5	2.8	53.0	3	2,513	10.2	36.8	1.8	43.8	18
Wilson	2960 RR/SCN	PI 88788	7.8	31.3	2.3	53.5	1	850	9.8	35.0	2.3	43.0	23
LSD ³		----	1.6	4.6	0.7	9.9	----	6,684	NS	2.9	0.6	3.2	----

Values presented in table are means; each variety was grown in four replicate plots in each field. Infested plots were planted on 2 May 2000 and harvested on 2 October 2000. Noninfested plots were planted on 11 May 2000 and harvested on 10 October 2000.

Entries are listed in alphabetical order by brand, then in alphabetical and ascending numerical order by variety.

¹ Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 2,089 eggs per 100 cc soil; field infested with race 3 SCN.

² Susceptible check variety.

³ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties.

Table 5. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group III soybean varieties in central Iowa in an SCN-infested field (Ames) and a noninfested field (Boxholm) in 2000.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
Kruger	K-303 RR/SCN	PI 88788	7.1	28.3	2.0	51.2	1	2,025	8.8	35.5	2.3	40.1	2
Pioneer	93B01 (S) ²	----	9.4	28.5	1.5	43.4	3	6,875	8.9	32.0	1.5	47.4	1
Public	IA 3005	PI 88788	6.6	31.0	2.8	48.7	2	913	7.8	36.0	2.8	32.1	3
LSD ³		----	NS	NS	0.8	NS	----	3,204	NS	NS	0.7	3.9	----

Values presented in table are means; each variety was grown in four replicate plots in each field. Infested plots were planted on 2 May 2000 and harvested on 2 October 2000. Noninfested plots were planted on 11 May 2000 and harvested on 10 October 2000.

Entries are listed in alphabetical order by brand, then in alphabetical and ascending numerical order by variety.

¹ Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 2,428 eggs per 100 cc soil; field infested with race 3 SCN.

² Susceptible check variety.

³ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties.

Table 6. Average soybean cyst nematode (SCN) reproduction and agronomic performance of SCN-resistant and susceptible maturity group II and III soybean varieties in an SCN-infested field (Ames) and a noninfested field (Boxholm) in central Iowa in 2000.

	Yield - SCN-Infested Field (bu/acre)			Final SCN Population Densities (eggs per 100 cc soil)			Yield - Noninfested Field (bu/acre)		
	Resistant Varieties	Susceptible Varieties	LSD ¹	Resistant Varieties	Susceptible Varieties	LSD ¹	Resistant Varieties	Susceptible Varieties	LSD ¹
Maturity Group II	46.4	39.6	4.0	2,754	8,281	2,682	43.7	43.1	NS
Maturity Group III	49.3	43.4	NS	1,258	6,875	2,412	38.4	47.4	NS

Infested plots were planted on 2 May 2000 and harvested on 2 October 2000. Noninfested plots were planted on 11 May 2000 and harvested on 10 October 2000.

¹ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties; average initial SCN population 2,118 eggs per 100 cc soil; field infested with race 3 SCN.

Table 7. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group II soybean varieties in southern Iowa in an SCN-infested field and a noninfested field in Crawfordsville in 2000.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
Asgrow	AG2905	PI 88788	7.1	22.3	1.3	28.7	5	225	9.8	34.3	1.4	45.9	3
Mark Seed	MRK 9928CTA	Not Given	6.3	24.5	1.8	32.3	2	1,163	8.7	36.3	1.5	46.4	2
Mark Seed	MRK 9929CTA	Not Given	6.9	23.0	1.3	28.1	7	3,213	9.6	36.0	1.6	46.7	1
Ottolie	RO 8275 RRN	PI 88788	6.8	21.8	1.5	24.4	9	50	8.2	33.3	1.6	41.5	8
Public	Dwight	PI 88788	8.1	21.5	1.5	29.1	4	188	10.1	33.0	1.6	45.7	4
Public	IA2021 (S) ²	----	6.3	23.5	2.0	27.6	8	4,000	9.4	33.3	2.7	42.3	7
Public	IA2036	PI 88788	7.6	26.5	2.0	28.5	6	200	8.6	37.0	3.1	41.3	9
Public	Kenwood 94 (S) ²	----	6.9	26.5	2.0	29.7	3	1,700	9.1	35.8	2.4	42.5	6
Public	Jack	PI 88788	7.2	34.5	2.0	38.1	1	75	9.7	40.8	2.7	45.2	5
LSD ³		----	NS	5.3	NS	6.7	----	2,684	NS	2.2	0.5	2.6	----

Values presented in table are means; each variety was grown in four replicate plots in each field. Infested plots were planted on 8 May 2000 and harvested on 3 October 2000. Noninfested plots were planted on 4 May 2000 and harvested on 28 September 2000.

Entries are listed in alphabetical order by brand, then in alphabetical and ascending numerical order by variety.

¹ Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 900 eggs per 100 cc soil; field infested with race 3 SCN.

² Susceptible check variety.

³ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant difference among the varieties.

Table 8. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group III soybean varieties in southern Iowa in an SCN-infested field and a noninfested field in Crawfordsville in 2000.

Brand	Variety	Resistance Source	SCN-Infested Field						Noninfested Field				
			Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank	SCN # ¹ (100 cc)	Stand (plants/ft)	Height (inches)	Lodging (1-5)	Yield (bu/acre)	Yield Rank
Asgrow	AG3302 (S) ²	----	7.1	25.0	1.8	28.2	11	2,213	9.8	38.3	2.0	45.8	3
Growmark	HS 3306	PI 88788	7.1	28.0	1.8	33.6	3	425	9.5	35.8	1.8	42.1	13
Growmark	HS 3591	PI 88788	5.5	28.5	1.8	28.8	9	300	10.0	40.3	1.7	45.9	2
Kruger	K-303 RR/SCN	PI 88788	6.8	21.0	1.8	28.6	10	313	9.4	33.8	1.7	44.0	7
Kruger	K-369 RR/SCN	PI 88788	6.5	26.8	2.0	28.1	12	200	7.5	38.8	1.4	42.2	12
Kruger	K-3777 SCN	PI 88788	7.5	29.0	2.0	30.6	6	163	10.1	40.5	1.3	45.0	4
Pioneer	93B51 (S) ²	----	6.9	24.5	1.5	34.1	1	2,400	8.9	34.8	1.8	47.4	1
Prairie Brand	PB-3520NRR	PI 88788	5.4	27.5	1.8	26.6	14	125	9.5	39.3	1.4	42.9	11
Prairie Brand	PB-3720N	PI 88788	7.4	26.8	1.8	29.3	8	275	9.8	41.0	1.4	44.6	5
Public	IA3005	PI 88788	6.2	24.5	2.0	33.6	3	213	8.5	36.8	2.3	39.2	15
Stine	3502-2	Not Given	6.0	27.3	2.0	31.9	5	288	8.2	35.3	1.5	43.7	9
Stine	3522	Not Given	6.4	27.0	1.8	33.7	2	63	8.5	36.0	1.9	44.0	7
Stine	3293-4 (S) ²	----	7.2	23.0	1.0	27.8	13	925	10.0	35.8	1.5	43.4	10
Stine	3522-4	PI 88788	6.5	24.8	2.0	30.1	7	138	8.5	36.5	1.7	44.5	6
Wilson	3780 RR/SCN	PI 88788	6.2	24.0	1.0	24.5	15	338	9.6	38.8	1.7	41.8	14
LSD ³		----	NS	4.8	0.5	NS	----	865	NS	1.7	0.3	3.9	----

Values presented in table are means; each variety was grown in four replicate plots in each field. Infested plots were planted on 8 May 2000 and harvested on 3 October 2000. Noninfested plots were planted on 4 May 2000 and harvested on 28 September 2000.

Entries are listed in alphabetical order by brand, then in alphabetical and ascending numerical order by variety.

¹ Final SCN egg population density (eggs per 100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 874 eggs per 100 cc soil; field infested with race 3 SCN.

² Susceptible check variety.

³ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant difference among the varieties.

Table 9. Average soybean cyst nematode (SCN) reproduction and agronomic performance of SCN-resistant and susceptible maturity group II and III soybean varieties in an SCN-infested field and a noninfested field in Crawfordsville in southern Iowa in 2000.

	Yield - SCN-Infested Field (bu/acre)			Final SCN Population Densities (eggs per 100 cc soil)			Yield - Noninfested Field (bu/acre)		
	Resistant Varieties	Susceptible Varieties	LSD ¹	Resistant Varieties	Susceptible Varieties	LSD ¹	Resistant Varieties	Susceptible Varieties	LSD ¹
Maturity Group II	29.8	28.7	NS	667	2,850	1,583	45.0	42.4	NS
Maturity Group III	30.6	30.0	NS	231	1,846	372	43.4	45.5	NS

Infested plots were planted on 8 May 2000 and harvested on 3 October 2000. Noninfested plots were planted on 4 May 2000 and harvested on 28 September 2000.

¹ Least significant difference: values are from Fisher's least-significant-difference test, NS = no significant differences among the varieties; average initial SCN population 883 eggs per 100 cc soil; field infested with race 3 SCN.