

Table 1. Soybean cyst nematode (SCN) reproduction and agronomic performance of maturity group I and II soybean varieties in northern Iowa in a 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
Maturity Group I:													
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	----
Maturity Group II:													
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

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
Mycogen	5212N	PI 88788	7.9	32.0	1.5	51.7	26	1,150	9.6	36.3	2.0	50.5	30
Ottillie	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
Ottillie	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
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. 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 density was 2,785 eggs per 100 cc soil for the maturity group I plots and 3,015 eggs per 100 cc soil for the maturity group II plots; 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.