

Table 1. Soybean cyst nematode (SCN) reproduction and agronomic performance of soybean varieties in southeast Iowa (Crawfordsville) in a SCN-infested field and a noninfested field in 2002.

Brand	Variety	Relative maturity	SCN-infested field							Noninfested field				
			Maturity date	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
Pioneer	93B01 (S) ²	3.0	9/16	8.9	31.0	1.8	43.1	38	8,000	7.3	30.3	2.0	53.5	19
Prairie Brand Seed Co.	PB-2920NRR	2.9	9/19	8.8	31.0	1.8	53.1	25	1,850	7.1	32.3	2.0	49.6	34
JC Robinson/Golden Harvest	H-2991 RR ¹	2.9	9/20	7.8	31.8	1.8	54.4	16	2,625	7.5	31.3	1.3	52.1	26
Midwest Seed Genetics	GR2931	2.9	9/20	7.4	32.3	1.0	53.1	25	1,000	7.1	31.3	2.0	52.2	25
Pioneer	93B53 (S) ²	3.5	9/20	7.2	33.8	1.8	47.7	36	8,900	6.8	33.3	1.8	56.9	8
Garst Seed Co.	Garst/AgriPro 3212RR/N	3.2	9/21	7.2	35.8	2.3	51.6	29	2,300	6.9	34.3	2.0	52.8	22
Pioneer	93B35 (S) ²	3.3	9/21	7.2	30.3	1.3	48.2	35	8,475	7.0	31.3	1.3	51.9	27
Dennis Ewing Farm Seeds	D-340 RR/SCN	3.3	9/22	8.1	32.0	2.0	54.1	18	1,500	7.5	31.3	1.5	54.4	16
Stine Seed Company	Stine S2802-4	2.8	9/22	7.9	32.5	1.5	52.1	27	2,975	7.4	31.3	2.0	53.5	19
Ottolie RO Seed	Ottolie 8333 RRN	3.3	9/22	8.8	33.3	1.8	43.6	37	7,975	7.9	34.3	1.8	53.9	17
Monsanto	ASGROW AG3201	3.2	9/23	7.9	34.8	1.3	57.3	6	1,625	7.4	34.8	2.0	52.8	22
Kruger Seed Company	K-303 RR/SCN	2.9	9/23	7.6	31.8	1.8	54.0	19	2,500	6.6	30.3	2.0	51.1	30
Prairie Brand Seed Co.	PB-3292NRR	3.2	9/23	7.5	37.3	1.8	50.7	31	8,000	6.8	36.8	1.3	56.2	11
United Agri Products	Dyna-Grow 3321 NRR	3.2	9/24	7.9	36.5	2.0	57.2	7	1,825	7.7	35.5	1.8	51.1	30
Latham Seed Co.	Latham 1138RRN	3.2	9/24	7.7	35.5	1.8	55.2	12	3,925	8.8	35.0	1.8	56.7	9
Public	MPV 331 NRR	3.3	9/24	8.3	34.5	2.3	53.3	22	1,400	7.7	33.0	2.0	51.6	29
Syngenta Seeds	X233R ³	3.3	9/24	9.3	36.3	2.3	50.4	33	2,025	8.2	37.8	2.3	50.3	33
Kruger Seed Company	K-344 RR/SCN	3.2	9/25	9.0	37.0	1.8	53.3	22	5,450	7.4	37.5	1.3	57.1	7
Prairie Brand Seed Co.	PB-3592NRR	3.5	9/26	6.5	34.0	1.0	55.8	10	2,600	8.1	32.8	2.0	52.9	21
Merschman Seeds, Inc.	Merschman Hoover VRR	3.4	9/26	7.7	34.3	2.0	55.7	11	2,350	7.3	31.5	1.8	49.2	36
Stine Seed Company	Stine S3402-4	3.4	9/26	8.2	34.0	1.5	55.2	12	3,025	6.4	33.0	2.0	51.9	27
Syngenta Seeds	X235R ³	3.5	9/26	9.0	38.5	1.8	50.7	31	2,225	8.3	38.3	1.0	48.6	37
Wilson Seeds Inc.	3790 NRR ⁴	3.7	9/27	8.2	34.8	2.0	58.6	4	4,800	6.5	33.3	2.0	56.2	11
Merschman Seeds, Inc.	Merschman Truman RR	3.5	9/27	9.1	37.5	2.0	56.4	9	2,650	8.1	36.3	2.0	47.1	38
Public	MPV 381 NRR	3.8	9/27	9.3	35.3	2.0	54.6	14	8,600	7.2	36.5	2.0	58.7	2
Public	MPV 350 NRR	3.5	9/27	9.4	36.3	2.0	54.4	16	1,950	7.2	36.5	1.8	49.6	34
Monsanto	ASGROW AG3703	3.7	9/27	8.4	38.0	2.0	53.8	20	2,075	8.0	37.3	1.5	53.9	17
Dennis Ewing Farm Seed	D-388 RR/SCN	3.8	9/27	8.6	33.5	2.3	51.4	30	5,375	7.7	34.8	2.0	58.4	4
Stine Seed Company	Stine S3842-4	3.8	9/27	7.7	35.0	1.8	49.3	34	7,000	7.1	33.5	2.0	56.2	11
Midwest Seed Genetics	GR3931	3.9	9/28	8.5	36.8	1.8	59.4	1	1,875	6.7	34.0	1.8	56.2	11
Kruger Seed Company	K-389 RR/SCN	3.7	9/28	9.0	34.3	1.8	58.4	5	4,400	8.8	32.0	2.0	56.7	9
Sand Seed Service	SOI 340N ⁵	3.4	9/28	10.4	33.3	2.0	53.2	24	750	8.2	38.0	2.3	50.9	32

Table 1. Continued.

Brand	Variety	Relative maturity	SCN-infested field							Noninfested field				
			Maturity date	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
Dennis Ewing Farm Seed	D-401 RR/SCN ⁶	3.9	9/29	8.3	37.0	1.0	59.4	1	2,000	7.6	34.8	1.5	55.8	15
Garst Seed Co.	Garst/AgriPro 3712RR/N	3.7	9/29	9.3	31.3	1.5	54.5	15	17,350	7.5	33.3	2.0	58.5	3
Syngenta Seeds	S37-N4 ⁷	3.7	9/29	8.4	41.0	2.0	53.8	20	2,475	7.0	38.3	2.3	52.7	24
United Agri Products	Dyna-Grow 3362 NRR	3.6	9/29	8.3	31.0	1.5	52.1	27	8,425	7.7	32.3	2.0	58.3	5
Sand Seed Service	SOI 3632NRR	3.6	9/30	8.8	33.3	1.5	58.9	3	10,275	7.4	32.5	2.0	58.3	5
Merschman Seeds, Inc.	Merschman Kennedy VIRR	3.8	9/30	9.1	33.0	1.5	56.8	8	12,250	7.1	34.5	1.8	58.9	1
	ISD ⁸	---	2.7	NS	2.9	0.6	6.8	---	4,169	NS	2.6	0.5	2.7	---

Values presented in table are means. Infested and noninfested plots were planted on May 21, 2002, and harvested on October 8, 2002. Varieties are listed in order of maturity date in the infested location, then by decreasing order of yield in the infested location. Unless otherwise noted, source of resistance is PI 88 788, and the variety is Roundup Ready®.

¹Final SCN egg population density (eggs/100 cc soil). There were no significant differences among initial SCN population densities. Average initial SCN population was 2,090 eggs/100 cc soil. Field infested with HG Type 0

(Race 3) SCN.

²Susceptible check variety.

³Experimental variety.

⁴Peking source of resistance.

⁵Conventional non-Roundup Ready® variety.

⁶Variety formerly D-393 RR/SCN.

⁷Variety formerly X139R.

⁸Least significant difference: values are from Fisher's least-significant-difference test (P=0.05), NS=no significant differences among the varieties.