

Table 1. Soybean cyst nematode (SCN) reproduction and agronomic performance of Roundup Ready® varieties in a SCN-infested field and a noninfested field, Southeast Research Farm, Crawfordsville, IA, in 2001.

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
Garst Seed Company	AgriPro/Garst 2912 RR/N	2.9	9/29	6.6	30.3	1.5	46.6	12	850	6.9	32.8	2.0	46.2	22
Pioneer	93B01 (S) ²	3.0	9/30	7.8	28.3	1.0	36.9	17	19,450	8.2	36.0	1.8	50.9	9
Stine Seed Company	Stine 2802-4	2.8	10/1	6.3	30.8	1.8	50.9	2	2,150	7.9	35.8	2.3	54.4	1
Prairie Brand	PB-2920NRR	2.9	10/1	6.7	31.0	2.0	51.2	1	1,850	6.3	35.5	2.8	53.3	5
Merschman Seeds, Inc.	Grant IIRR	3.3	10/2	5.9	28.3	1.5	34.8	21	12,488	6.7	37.3	2.3	54.2	3
Asgrow	AG 2905	2.9	10/2	8.3	30.8	2.0	50.7	3	3,150	7.7	36.5	2.5	50.7	11
Stine Seed Farm	Stine 3232-4	3.2	10/3	7.7	29.5	1.0	33.7	23	6,150	6.9	38.0	2.0	54.4	1
Pioneer	93B53 (S) ²	3.5	10/3	6.3	32.5	1.3	35.3	19	13,600	6.6	39.0	2.3	50.5	12
Wilson Genetics, L. L. C.	3344 RR ³	3.4	10/3	7.8	27.5	1.3	35.3	19	23,363	8.1	39.8	2.3	51.8	7
Prairie Brand	PB-3320NRR	3.3	10/4	7.1	35.5	2.0	46.7	11	1,300	6.2	40.8	2.0	47.9	19
Garst Seed Company	AgriPro/Garst 3112 RR/N	3.1	10/4	7.5	34.0	2.0	49.5	7	4,425	6.1	40.3	2.0	47.6	21
Asgrow	AG 3302 (S) ²	3.3	10/5	8.0	33.3	2.0	43.1	15	12,425	7.0	44.5	3.0	53.7	4
Prairie Brand	PB-3520NRR	3.5	10/5	6.8	39.8	2.0	48.6	9	1,438	7.2	46.5	2.5	48.6	17
Growmark, Inc.	HS 3306	3.3	10/5	7.2	35.0	2.0	50.3	4	2,163	7.2	41.8	2.8	49.7	15
NK Brand	X133R ⁴	3.3	10/6	6.7	35.8	2.3	45.5	13	1,188	7.7	43.8	3.5	45.9	23
United Suppliers, Inc.	US S3301RR	3.3	10/7	6.5	33.3	2.0	49.6	6	1,000	8.4	37.8	2.0	50.2	13
NK Brand	X139R ⁴	3.9	10/9	7.8	35.8	2.0	49.7	5	1,363	8.5	44.8	3.0	48.5	18
United Suppliers, Inc.	US E3802RR ⁴	3.8	10/12	5.6	28.5	2.3	34.8	21	4,475	5.2	38.5	2.5	51.0	8
Growmark, Inc.	HS 3706	3.7	10/12	7.0	35.0	2.0	46.9	10	675	6.2	43.0	2.3	47.8	20
NK Brand	X138R ⁴	3.8	10/12	7.1	35.5	2.3	49.4	8	1,188	7.2	41.0	2.3	49.2	16
Ottillie RO Seed	RO 8370 RRN	3.7	10/13	6.1	31.0	2.0	43.5	14	12,925	6.2	36.8	3.3	51.9	6
Stine Seed Company	Stine 3632-4	3.4	10/14	6.9	29.0	2.0	38.6	16	23,275	7.5	38.8	2.8	50.9	9
Merschman Seeds, Inc.	Kennedy VIRR	3.6	10/15	5.9	29.5	1.8	35.9	18	14,415	5.6	37.5	2.8	50.0	14
	LSD ⁵	---	2	NS	3.3	0.4	5.1	---	11,197	NS	3.0	0.8	3.8	---

Values presented in table are means. Infested plots were planted on 11 June 2001 and harvested on 18 October 2001. Noninfested plots were planted on 10 June 2001 and harvested on 29 October 2001. Varieties are listed in order of maturity date in the infested location, then by increasing order of yield in the infested location. Unless otherwise noted, source of resistance is PI 88.788.

¹Final SCN egg population density (eggs/100 cc soil); there were no significant differences among initial SCN population densities; average initial SCN population 3,072 eggs/100 cc soil; field infested with race 14 SCN.

²Susceptible check variety.

³Peking source of resistance.

⁴Experimental variety.

⁵Least significant difference: values are from Fisher's least-significant-difference test (P=0.05), NS=no significant differences among the varieties.