

Soybean cyst nematode-resistant soybean varieties for Iowa

by Gregory L. Tylka

Soybean cyst nematode (SCN) is a widespread pest of soybeans in Iowa. The nematode is a serious threat to soybean production because it reproduces very quickly, survives in the soil for many years in the absence of a soybean crop, and can cause substantial yield losses, particularly in dry years.

Resistance is a very effective strategy for managing SCN, producing acceptable yields yet suppressing reproduction of the nematode. The number of soybean varieties with genetic resistance to SCN available in maturity groups I, II, and III has increased dramatically since the early 1990s (Figure 1). Today, most soybean seed companies have SCN-resistant soybean varieties available for Iowa growers.

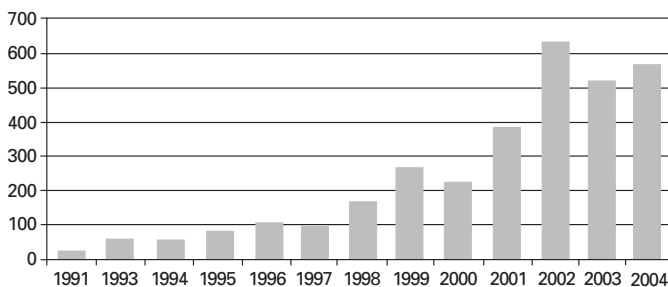


Figure 1. Number of maturity group I, II, and III SCN-resistant soybean varieties available to Iowa soybean growers, 1991–2004. (No data available for 1992.)

What should one consider when choosing an SCN-resistant variety?

Yield potential. Obviously, the most important characteristic of SCN-resistant soybean varieties is yield potential in SCN-infested fields. The yield of SCN-resistant varieties can vary greatly. Each year, many SCN-resistant soybean varieties are evaluated in the Iowa State University (ISU) SCN-resistant Soybean Variety Trials. The results of these variety trials are published annually in ISU Extension publication IPM 52, *Evaluation of Soybean Varieties Resistant to*

Soybean Cyst Nematode in Iowa, which can be ordered through any county extension office, the ISU Extension Publications Distribution Center (515-294-5247), and on the Internet at www.soybeancyst.info or www.isuscnavarietytrials.info. Iowa soybean growers are encouraged to consult this publication for guidance on the relative performance of SCN-resistant soybean varieties. However, the variety trial data are from a limited number of locations and should be used only as a beginning point for developing an SCN management program for any specific field. The performance of individual SCN-resistant soybean varieties will vary among locations and years, so growers are encouraged to evaluate several SCN-resistant soybean varieties at their own locations to determine the best varieties for their local conditions.

Effect on SCN population densities. In addition to yield, growers should consider the effectiveness of the varieties in suppressing reproduction of the nematode. SCN-resistant varieties (even top varieties that yield comparably) can vary considerably in how well they control nematode population densities. The yields of the top three conventional (nonRoundup Ready®) soybean varieties that were evaluated in the north central Iowa location of the ISU SCN-resistant Soybean Variety Trials in 2001 are shown in Figure 2. Note that there is no significant difference among the yield of these three varieties. However, one of the varieties did not control the nematode as well as the other two, as illustrated by the end-of-season SCN egg population densities (shown in Figure 3). Such a large difference in nematode control among comparable, high-yielding soybean varieties is not unusual. Consequently, growers should consider information about how SCN-resistant soybean varieties affect SCN population densities in addition to how well they yield in order to ensure maximum soybean productivity of their land for years to come.

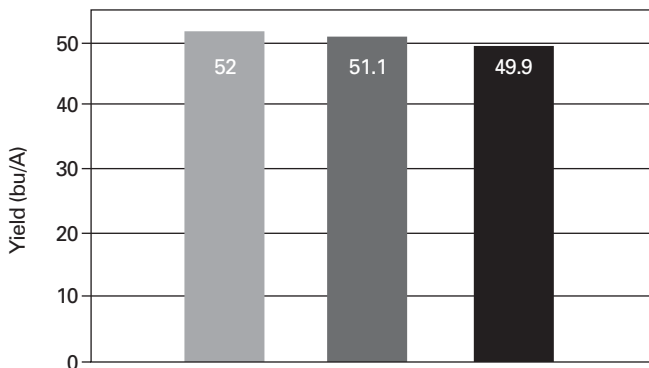


Figure 2. Yield of the three best-yielding conventional (nonRoundup Ready®) soybean varieties in a north central Iowa variety trial location in 2001. The least significant difference value is 4.9.

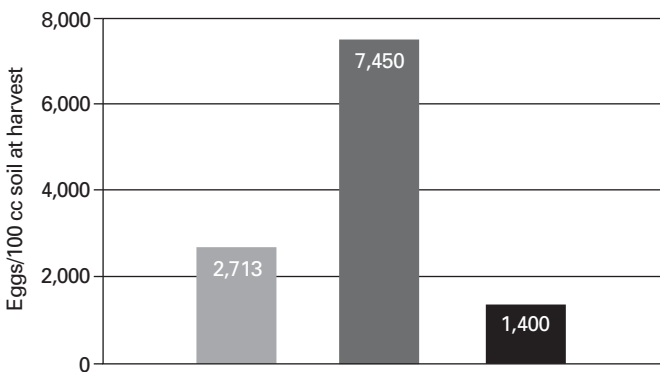


Figure 3. End-of-season SCN egg population densities in plots of the three best-yielding conventional (nonRoundup Ready®) soybean varieties in a north central Iowa variety trial location in 2001. The least significant difference value is 5,430.

Other defensive traits. SCN population densities tend to be greater as soil pH increases from 5.5 to 8.0, and iron deficiency chlorosis can be a problem once soil pH rises above 7.4 or so. Soybean varieties vary in their sensitivity to high pH soils and iron deficiency chlorosis. Because high population densities of SCN frequently occur in high pH soils, many growers need SCN-resistant soybean varieties that also have good tolerance to iron deficiency chlorosis. Iron deficiency chlorosis tolerance scores are provided for most of the SCN-resistant varieties listed in this publication. Minimizing the effects of iron chlorosis will reduce the overall stress of the soybean crop, thus also reducing the yield-reducing effect of SCN.

SCN is not the only soybean pathogen that occurs in Iowa soybean fields. Other common soybean diseases in Iowa include brown stem rot, *Phytophthora*

root rot, sudden death syndrome, and white mold. Consequently, a soybean variety with multiple disease resistance often is needed. And some diseases, such as brown stem rot and sudden death syndrome, are made more severe by SCN. Growers must observe their soybean fields for the presence of all soybean diseases and then decide which of the diseases that occur cause the most severe and consistent yield loss from year to year. SCN is among the most damaging and persistent soybean pathogens that occur in the state.

Should growers attempt to manage the different types of SCN resistance that are used?

Currently, there are three main genetic sources for SCN resistance genes in commercial soybean varieties, namely PI88788, Peking, and PI437654 (also known as Hartwig and PUSCN14 resistance, the latter also known as CystX® resistance). Additionally, one variety with resistance genes from PI209332 is available. Each of these sources of SCN resistance contains several genes that confer resistance to the nematode. Consequently, soybean varieties developed from the various sources of resistance may not all contain the same genes in the same combinations.

All of these sources of SCN resistance allow limited reproduction of only a few soybean cyst nematodes. Limited reproduction by a few nematodes on a resistant soybean variety does not pose a problem in a single growing season. However, if soybean varieties containing the same source of resistance are grown repeatedly for many years, there is the potential for build-up of a population of SCN that readily feed on that source of resistance. Thus, use of resistant soybean varieties, particularly any single SCN-resistant variety, should not be considered the sole solution for managing SCN. Instead, Iowa State University recommends growing nonhost crops, such as corn, in conjunction with soybean varieties with different sources of resistance in a crop rotation scheme to discourage the build-up of SCN populations that reproduce readily on resistant soybean varieties. If growers cannot utilize soybean varieties with different sources of SCN resistance in successive soybean crops, they should try to grow different SCN-resistant varieties derived from the common source of SCN resistance, PI88788 (Figure 4).

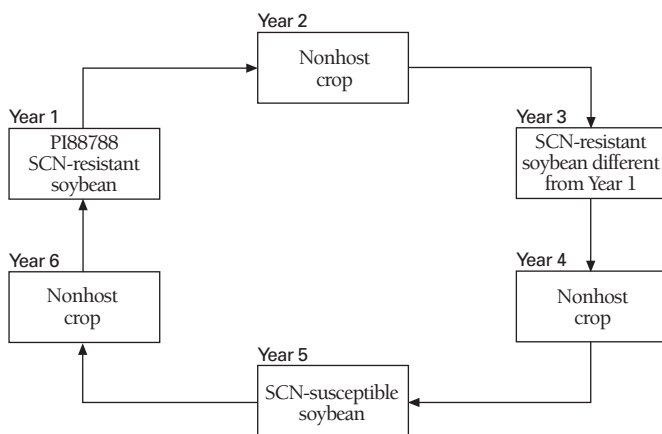


Figure 4. Recommended crop rotation for fields with low or moderate SCN population densities.

When (at what level) should growers begin to use resistant soybean varieties for management of SCN?

Iowa State University recommends that SCN-resistant soybean varieties be grown in fields with low or moderate SCN population densities, even fields with very low levels of the nematode. The reason for utilizing SCN-resistant soybeans in fields with low population densities is that the nematode can reduce soybean yields significantly at low population densities under hot, dry weather conditions. Furthermore, ISU SCN-resistant Soybean Variety Trial data show that many currently available SCN-resistant soybean varieties have high yield potential even when grown in fields with low population densities of the nematode. So there's not much of an economic risk in using an SCN-resistant soybean variety in a field with low population densities of SCN. Using SCN-resistant soybean varieties immediately once an infestation is discovered will stop the increase in SCN population densities and allow for greater success at implementing the recommended crop rotation scheme (Figure 4).

Refer to Iowa State University Extension publication PM 879, *Soybean Cyst Nematode*, for more information about biology and management of the nematode. Additional information about SCN also can be obtained at www.soybeancyst.info.

The following list is a compilation of soybean varieties in maturity groups I, II, and III that are advertised as having resistance to SCN. The resistance ratings reported here were provided by the seed companies offering these varieties for sale. Iowa State University has not verified the resistance claims. Different seed companies may use different criteria and have data from different locations, so it is not recommended to use these ratings for comparisons between companies. Keep in mind that companies may not use the same standards to develop these ratings.

Varieties are arranged in tables by maturity group and brand.

Disclaimer

This list is not complete. Although sincere effort was made to contact all companies offering SCN-resistant soybean varieties for sale in Iowa, numerous companies that were contacted did not respond to our request for information. It is acknowledged that some companies may have been overlooked in this effort. However, no company was intentionally excluded. If you represent a soybean seed company and your varieties are not listed, please contact us so that we can correct the omission.

This information has been provided to us by seed companies and has not been verified by Iowa State University. We do not warrant or guarantee the standard of any variety listed. Also, no endorsement is intended of listed varieties, nor is criticism implied of varieties not listed. Neither Iowa State University nor its faculty or staff may be held responsible for damages resulting from the use of this information.

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Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Stanley R. Johnson, director, Cooperative Extension Service, Iowa State University of Science and Technology, Ames, Iowa.

Table 1. Soybean cyst nematode-resistant soybean varieties for maturity group I.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
AgVenture Profiseed, 1691 Hwy 65, Hampton, IA 50441, 800-247-3959, lee@profiseed.com, www.agventure.com					
Profiseed	18T2N	1.8	Y	2.9	PI88788
Albert Lea Seed House, 1414 W. Main, PO Box 127, Albert Lea, MN 56007, 507-373-3161, 800-352-5247, seedhouse@alseed.com, www.alseed.com					
Viking	1908CNRR	1.9	Y	2.1	PI88788
Viking	1922CN	1.9	N	2.2	PI88788
Crows Hybrid Co., 612 E Dunlap, Kentland, IN 47951, 219-474-6957, wayne.hoener@channelbio.com, www.crowshybrid.com					
Crow's	C1515R	1.5	Y	2.1	PI88788
Dairyland Seed Co. Inc., PO Box 958, 3750 Hwy H, West Bend, WI 53095, 800-236-0163, www.dairylandseed.com					
Dairyland	DST17-000/RRCX	1.7	Y		CystX
Dairyland	DSR-191/RR	1.9	Y	2.4	PI88788
Dyna-Gro, M64 South, Wall Lake, IA 50536, 507-327-8136, www.yieldadvantage.com					
Dyna-Gro	33X19	1.9	Y	1.7	PI88788
Dyna-Gro	34N19	1.9	Y	1.7	PI88788
Excel Brand, 116 E. State, Camp Point, IL 62320, 800-593-7708					
Excel Brand	8180NRR	1.8	Y	2.5	PI88788
Excel Brand	8196NRR	1.9	Y	2.4	PI88788
Farm Advantage, 1275 Hwy 69, Belmond, IA 50421, 641-444-3344, farmadv@kalnet.com, www.farmadvantage.com					
Farm Advantage	7132N	1.3	Y	1.5	PI88788
Farm Advantage	7171N	1.7	Y	1.4	PI88788
Farm Advantage	7184N	1.8	Y	2.3	PI88788
FC Brand/Farmers Cooperative Co., 105 Garfield Ave., Farnhamville, IA 50538, 515-544-3213, tclaussen@fccoop.com, www.fccoop.com					
FC Brand	1829RR-SCN	1.8	Y	1.6	PI88788
Fontanelle Hybrids, 10981 8th St., Fontanelle, NE 68044, 402-721-1410, spike@fontanelle.com, www.fontanelle.com					
Fontanelle	7371NRR	1.7	Y	2.5	PI88788
Garst Seed Company, 2369 330th St., Slater, IA 50244, garstguy@garstseedco.com, www.garstseed.com					
Garst	1212RR/N	1.2	Y	2.9	PI88788
Garst	1490N	1.4	N	2.5	PI88788
Garst	1812RR/N	1.8	Y	2.7	PI88788
Garst	1994N	1.9	N	2.7	PI88788
Gold Country Seed Inc., 16506 Hwy 15 North, Box 604, Hutchinson, MN 55350, 800-795-8544, gcs@goldcountryseed.com, www.goldcountryseed.com					
Gold Country	7413NRR	1.3	Y	1.9	PI88788
Gold Country	3517NRR	1.7	Y	2.0	PI88788
Golden Harvest Seeds, Inc., 220 N. Eldorado Road, Suite E, Bloomington, IL 61704, West 402-289-0245 (Bob Sis)/East 309-654-2234 (Ken Martin), bsis@jcro.com/kmartin@goldenseedco.com, www.goldenharvestseeds.com					
Golden Harvest	H-1350R	1.3	Y	1.8	PI88788
Golden Harvest	H-1969RR	1.9	Y	2.3	PI88788
Kruger Seed Company, Hwy 20 East, PO Box A, Dike, IA 50624, 319-989-2414, blair@krugerseed.com, www.krugerseed.com					
Kruger Seed Co.	141 RR/SCN	1.4	Y	2.5	PI88788
Kruger Seed Co.	171 RR/SCN	1.7	Y	2.7	PI88788
Kruger Seed Co.	181 RR/SCN	1.8	Y	2.7	PI88788
Kruger Seed Co.	195+/ RR/SCN	1.9	Y	2.7	PI88788
Land O Lakes, 2827 8th Ave. South, Fort Dodge, IA 50501, 515-574-2689, dbjorklund@landolakes.com					
Croplan Genetics	RC1900	1.9	Y	Not Given	Not Given
Croplan Genetics	RC1919	1.9	Y	2.5	PI88788

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Table 1. Soybean cyst nematode-resistant soybean varieties for maturity group I, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Latham Seeds, 131 180th St., Alexander, IA 50420, 641-692-3258, markg@lathamseeds.com, www.lathamseeds.com					
Latham Seeds	E1711RX	1.7	Y	2.9	CystX
Latham Seeds	E1783R	1.7	Y	1.8	PI88788
Latham Seeds	E1980R	1.9	Y	2.3	PI88788
Latham Seeds	L-342CN	1.9	N	2.6	PI88788
Legend Seeds Inc., Box 241, 103 Hwy 14E., DeSmet, SD 57231, 605-854-3346, legend@legendseeds.net, www.legendseeds.net					
Legend Seeds	1324RRN	1.3	Y	1.7	PI88788
Legend Seeds	1600RRN	1.6	Y	1.9	PI88788
LG Seeds, 22827 Shissler Rd., Elmwood, IL 61529, 800-752-6847, www.lgseeds.com					
LG Seeds	C1920NRR	1.9	Y	1.5	PI88788
Mallard Seed Co., 311 West Broadway, Plainview, MN 55964, 507-534-2300 or 800-562-1768, MALLARDINC@aol.com, www.mallardseed.com					
Mallard	RR1919CN	1.9	Y	2.0	PI88788
Merschman Seeds, Inc., 103 Ave. D., West Point, IA 52656, 319-837-6111/800-848-7333, merseeds@merschmanseeds.com, www.merschmanseeds.com					
Merschman	Venus RR	1.9	Y	2.0	PI88788
Midwest Seed Genetics, 23751 Hwy 30 East, Carroll, IA 51401, 712-792-6691, info@midwestseed.com, www.midwestseed.com					
Midwest Seed	GR1531	1.5	Y	2.1	Not Given
Monsanto Company, 4312 Carol Avenue, Cortland, IL 60112 815-754-4809, diane.freeman@monsanto.com, www.monsanto.com					
AsGrow	AG1501	1.5	Y	4.0	Not Given
DeKalb	DKB15-52	1.5	Y	4.0	Not Given
Mustang Seed, 306 S. Washington, Madison, SD 57042, 605-256-6529, dalenelson@mustangseeds.com, www.mustangseeds.com					
Mustang Seed	M-194NRR	1.9	Y	2.0	PI88788
NuTech Seed, 6131 North Fork Rd., Ames, IA 50010, 877-561-9067, seed1of2@aol.com, www.yieldleader.com					
NuTech Seed	1111 RR/SCN	1.1	Y	2.9	PI88788
NuTech Seed	1212 RR/SCN	1.2	Y	2.3	PI88788
NuTech Seed	1313 RR/SCN	1.3	Y	2.3	PI88788
NuTech Seed	131 SCN	1.3	N	2.5	PI88788
NuTech Seed	1616 RR/SCN	1.6	Y	1.9	PI88788
NuTech Seed	7165 RR/SCN	1.6	Y	3.0	PI88788
NuTech Seed	171 SCN	1.7	N	1.9	Peking
NuTech Seed	1717 RR/SCN	1.7	Y	2.9	PI88788
NuTech Seed	181 SCN	1.8	N	2.3	Peking
NuTech Seed	1818 RR/SCN	1.8	Y	3.0	PI88788
NuTech Seed	193 SCN	1.9	N	2.2	Peking
NuTech Seed	7193 RR/SCN	1.9	Y	2.8	PI88788
Pioneer Hi-Bred International, Inc., 5700 Merle Hay Road, PO Box 454, Johnston, IA 50131, 515-253-5892, www.pioneer.com					
Pioneer	91M50	1.5	Y	5.0	PI88788
Pioneer	91M90	1.9	Y	5.0	Peking
Prairie Brand Seed Co., 15X Ave., Story City, IA 50248, 515-733-2101, mike@prairiebrandseed.com, www.prairiebrandseed.com					
Prairie Brand	PB-1994NRR	1.9	Y	2.5	PI88788
Royster-Clark, Inc., 717 Robinson Road SE, Washington C.H., OH 43160, 800-659-7790, mdschonauer@roysterclark.com, www.roysterclark.com, www.vigorseeds.com					
Vigoro	V19N5RR	1.9	Y	2.2	PI88788
Sands of Iowa, 4765 Hwy 143, Marcus, IA 51035, 800-831-0034, soi@sandsofiowa.com, www.sandsofiowa.com					
Sands of Iowa	SOI 1343NRR	1.3	Y	2.0	PI88788

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Table 1. Soybean cyst nematode-resistant soybean varieties for maturity group I, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Stine Seed Company, 2225 Laredo Trail, Adel, IA 50003, 515-677-2605, info@stineseed.com, www.stineseed.com					
Stine	S0992-4	1.0	Y	2.5	PI88788
Stine	S1562-4	1.5	Y	2.0	PI88788
Stine	S1962-4	1.8	Y	2.8	PI88788
Syngenta Seeds Inc., 1525 Airport Road, Ames, IA 50010, 515-233-5395, john.harker@syngenta.com					
NK Brand	X417R	1.7	Y	3.0	PI88788
NK Brand	X418R	1.8	Y	2.5	PI88788
Trelay, 11623 Hwy 80, Livingston, WI 53554, 608-943-6363, jasonb@trelay.com, www.trelay.com					
High Cycle	2174RR/SCN	1.7	Y	1.8	PI88788
Ziller Seed Co., Inc., 76374 380th St., Bird Island, MN 55310, 320-365-3674, tziller@zillerseed.com, www.zillerseed.com					
Ziller	BT 7133NR	1.3	Y	1.9	PI88788
Ziller	BT 7175NR	1.7	Y	1.9	PI88788
Ziller	BT 7192NR	1.9	Y	2.1	PI88788

Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
AgVenture, 207 N. Seventh, Kentland, IN 47951, 219-474-5557, jshaner@agventure.com, www.agventure.com					
AgVenture	AV27T7NRR	2.7	Y	2.0	PI88788
AgVenture	AV28J6NRR	2.8	Y	2.0	PI88788
AgVenture	AV28T8NRR	2.8	Y	2.5	PI88788
AgVenture	AV28TON	2.8	N	2.5	PI88788
AgVenture Profiseed, 1691 Hwy 65, Hampton, IA 50441, 800-247-3959, lee@profiseed.com, www.agventure.com					
Profiseed	4204N	2.0	Y	2.7	PI88788
Profiseed	24T7N	2.4	Y	2.7	PI88788
Profiseed	24T9N	2.4	Y	2.9	Hartwig
Profiseed	426N	2.6	Y	3.0	PI88788
Profiseed	X26T3N	2.6	Y	2.7	CystX
Profiseed	28T8N	2.8	Y	3.0	PI88788
Albert Lea Seed House, 1414 W. Main, PO Box 127, Albert Lea, MN 56007, 507-373-3161, 800-352-5247, seedhouse@alseed.com, www.alseed.com					
Viking	2108CNRR	2.1	Y	2.1	Hartwig/PI88788
Viking	2181CN	2.1	N	2.1	PI88788
Bo-Jac Seed Company, 245 1500th Ave., Mt. Pulaski, IL 62548, 800-397-2069, tim@bo-jac.com, www.bo-jac.com					
Mavrick	2262RR	2.6	Y	2.0	PI88788
Mavrick	4262RR	2.6	Y	2.7	PI88788
Mavrick	3285RR	2.8	Y	2.5	PI88788
Mavrick	3292	2.9	N	2.5	PI88788
Champion Seed, 3069 330th St., Ellsworth, IA 50075, 515-836-2141, championseed@netins.net					
Champion Seed	CS 2040CN	2.0	N	2.5	PI88788
Champion Seed	CS 205NRR	2.0	Y	2.1	PI88788
Champion Seed	CS 222NRR	2.2	Y	2.1	PI88788
Champion Seed	CS 2350CN	2.3	N	2.5	PI88788
Champion Seed	CS 2450CN	2.4	N	2.1	Peking
Champion Seed	CS 252NRR	2.5	Y	2.5	PI88788
Champion Seed	CS 2540CN	2.5	N	2.5	PI88788
Champion Seed	CS 265NRR	2.6	Y	2.5	PI88788

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Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Crows Hybrid Co., 612 E Dunlap, Kentland, IN 47951, 219-474-6957, wayne.hoener@channelbio.com, www.crowshybrid.com					
Crow's	C2005	2.0	N	2.1	PI88788
Crow's	C2015R	2.0	Y	1.9	PI88788
Crow's	C2315R	2.3	Y	2.9	PI88788
Crow's	C2317R	2.3	Y	2.1	PI88788
Crow's	C2415R	2.4	Y	2.1	PI88788
Crow's	C2615R	2.6	Y	2.6	PI88788
Crow's	C2617R	2.6	Y	2.6	PI88788
Crow's	C2815R	2.8	Y	2.3	PI88788
Crow's	C2915R	2.9	Y	3.0	PI88788
Dairyland Seed Co. Inc., PO Box 958, 3750 Hwy H, West Bend, WI 53095, 800-236-0163, www.dairylandseed.com					
Dairyland	DST21-000/RR	2.1	Y	2.3	PI88788
Dairyland	DSR-232/RR	2.3	Y	2.6	PI88788
Dairyland	DSR-2501/RR	2.5	Y	2.9	PI88788
Dairyland	DSR-255/RR	2.5	Y	2.5	PI88788
Dairyland	DSR-268/RR	2.7	Y	2.4	PI88788
Dairyland	DSR-2701/RRCX	2.7	Y	3.0	CystX
Dairyland	DSR-2741RR	2.8	Y	2.4	PI88788
Dairyland	DSR-2801/RR	2.8	Y	2.7	PI88788
Dairyland	DST28-001/RRCX	2.8	Y		CystX
Dairyland	DSR-289/STS	2.9	N	2.3	PI88788
Dairyland	DSR-2901/RRHP	2.9	N	2.1	Peking
Dyna-Gro, M64 South, Wall Lake, IA 50536, 507-327-8136, www.yieldadvantage.com					
Dyna-Gro	3216NRR	2.1	Y	2.1	PI88788
Dyna-Gro	3220N	2.2	N	2.2	PI88788
Dyna-Gro	3221NRR	2.2	Y	2.4	PI88788
Dyna-Gro	33J24	2.4	Y	2.0	PI88788
Dyna-Gro	3251N	2.5	N	3.0	PI88788
Dyna-Gro	39V26	2.6	Y	2.0	PI88788
Dyna-Gro	35R27	2.7	Y	2.5	PI88788
Dyna-Gro	3281N	2.8	N	2.6	PI88788
Dyna-Gro	33F28	2.8	Y	1.7	PI88788
Dyna-Gro	36J29	2.9	Y	1.7	PI88788
Excel Brand, 116 E. State, Camp Point, IL 62320, 800-593-7708					
Excel Brand	8211NRR	2.1	Y	2.3	PI88788
Excel Brand	8220NRR	2.2	Y	2.6	PI88788
Excel Brand	8236NRR	2.3	Y	2.7	PI88788
Excel Brand	8242NRR	2.4	Y	2.5	PI88788
Excel Brand	8255NRR	2.5	Y	2.5	PI88788
Excel Brand	8260NRR	2.6	Y	2.9	PI88788
Excel Brand	8274NRR	2.7	Y	2.5	PI88788
Excel Brand	8266NRR	2.8	Y	2.4	PI88788
Excel Brand	8297NRR	2.9	Y	2.7	PI88788
Excel Brand	8304NRR	2.9	Y	2.4	PI88788

—continued on page 8

Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Farm Advantage, 1275 Hwy 69, Belmond, IA 50421, 641-444-3344, farmadv@kalnet.com, www.farmadvantage.com					
Farm Advantage	7204N	2.0	Y	2.2	PI88788
Farm Advantage	2323N	2.3	N	2.0	PI88788
Farm Advantage	7234N	2.3	Y	2.3	PI88788
Farm Advantage	2444N	2.4	N	2.3	Peking
Farm Advantage	7245N	2.4	Y	2.6	Hartwig
Farm Advantage	7254N	2.5	Y	2.2	PI88788
Farm Advantage	2533N	2.6	N	2.5	PI88788
Farm Advantage	7284N	2.8	Y	2.4	PI88788
Farm Advantage	2955N	2.9	N	2.8	PI88788
Farm Advantage	7296NX	2.9	Y	Not Given	CystX
FC Brand/Farmers Cooperative Co., 105 Garfield Ave., Farnhamville, IA 50538, 515-544-3213, tclaussen@fccoop.com, www.fccoop.com					
FC Brand	1999RR-SCN	2.0	Y	2.1	PI88788
FC Brand	2049RR-SCN	2.1	Y	2.0	PI88788
FC Brand	2219RR-SCN	2.2	Y	2.3	PI88788
FC Brand	2429RR-SCN	2.4	Y	2.0	PI88788
FC Brand	2449RR-SCN	2.4	Y	1.9	Hartwig
FC Brand	2529RR-SCN	2.5	Y	2.8	PI88788
FC Brand	2619RR-SCN	2.6	Y	2.1	PI88788
FC Brand	2699RR-SCN	2.7	Y	2.2	PI88788
FC Brand	2839RR-SCN	2.8	Y	2.0	PI88788
Fontanelle Hybrids, 10981 8th St., Fontanelle, NE 68044, 402-721-1410, spike@fontanelle.com, www.fontanelle.com					
Fontanelle	8301NRR	2.0	Y	2.0	PI88788
Fontanelle	8441NRR	2.4	Y	2.2	PI88788
Fontanelle	8464NRR	2.6	Y	2.3	PI88788
Fontanelle	8281NRR	2.8	Y	2.2	PI88788
Four Star Seed Company, PO Box 88, Parkersburg, IA 50665, 712-644-1400, dkenealy@loganet.net, www.4starseed.com					
Four Star Seed	3220RR	2.2	Y	2.0	PI88788
Four Star Seed	2240RR	2.4	Y	2.1	PI88788
Four Star Seed	2281RR	2.8	Y	2.3	PI88788
Garst Seed Company, 2369 330th St., Slater, IA 50244, garstguy@garstseedco.com, www.garstseed.com					
Garst	2012RR/N	2.0	Y	3.2	PI88788
Garst	2013RR/N	2.0	Y	3.6	PI88788/PI437654
Garst	2312RR/N	2.3	Y	2.7	PI88788
PSA	9235RR/N	2.3	Y	2.8	PI88788
PSA	8255RR/N	2.5	Y	2.7	PI88788
Garst	D259N	2.5	N	2.8	PI88788
Garst	2612RR/N	2.6	Y	2.9	PI88788
Garst	2724RR/N	2.7	Y	3.1	PI88788
PSA	9274RR/N	2.7	Y	3.4	PI88788/PI437654
Garst	2812RR/N	2.8	Y	3.0	PI88788
Garst	D294RR/N	2.9	Y	3.6	PI88788
Gold Country Seed Inc., 16506 Hwy 15 North, Box 604, Hutchinson, MN 55350, 800-795-8544, gcs@goldcountryseed.com, www.goldcountryseed.com					
Gold Country	2420NRR	2.0	Y	2.5	PI88788
Gold Country	6320NRR	2.0	Y	2.8	PI88788
Gold Country	1521NRR	2.1	Y	2.4	PI88788
Gold Country	2321 cyst	2.1	N	2.8	PI88788
Gold Country	7521NRR	2.1	Y	2.4	PI88788
Gold Country	3624XNRR	2.4	Y	2.8	Hartwig

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Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Golden Harvest Seeds, Inc., 220 N. Eldorado Road, Suite E, Bloomington, IL 61704, West 402-289-0245 (Bob Sis)/East 309-654-2234 (Ken Martin), bsis@jcro.com/kmartin@goldenseedco.com, www.goldenharvestseeds.com					
Golden Harvest	H-2086RR	2.0	Y	2.0	PI88788
Golden Harvest	H-2237	2.2	N	2.5	PI88788
Golden Harvest	H-2276RR	2.2	Y	2.5	PI88788
Golden Harvest	H-2417RR	2.4	Y	2.5	PI437654
Golden Harvest	H-2632	2.6	N	2.5	PI88788
Golden Harvest	H-2646RR	2.6	Y	Not Given	PUSCN14A
Golden Harvest	H-2661RR	2.6	Y	2.7	PI88788
Golden Harvest	H-2698RR	2.6	Y	2.1	PI88788
Golden Harvest	H-2945RR	2.9	Y	Not Given	PUSCN14A
Golden Harvest	H-2991RR	2.9	Y	2.6	PI88788
Great Lakes Hybrids, 9915 W. M-21, Ovid, MI 48866, 989-834-2251, mitch.ray@greatlakeshybrids.com					
Great Lakes Hybrids	GL2009RR	2.0	Y	1.0	PI88788
Great Lakes Hybrids	GL2309	2.3	N	2.5	PI88788
Great Lakes Hybrids	GL2429RR	2.4	Y	1.8	PI88788
Great Lakes Hybrids	GL2519Rac	2.5	Y	1.7	PI88788/Hartwig
Great Lakes Hybrids	GL2819RR	2.8	Y	1.0	PI88788
Green Valley Seed - WSDA, PO Box 35, Kahoka, MO 63445, 660-727-3341, kksowers@interlinkle.net, www.willcross.com					
Willcross	2293N	2.9	Y	2.2	PI88788
GROWMARK, Inc., 1701 Towanda Ave., Bloomington, IL 61701, 309-557-6399, hisoy@growmark.com, www.fssystem.com					
FS HiSOY	HS 2036	2.0	Y	2.0	PI88788
FS HiSOY	HS 2431	2.4	N	2.5	PI88788
FS HiSOY	HS 2606	2.6	Y	2.5	PI88788
FS HiSOY	HS 2736	2.7	Y	2.5	PI88788
FS HiSOY	HS 2826	2.8	Y	2.0	PI88788
FS HiSOY	HS 2911	2.9	N	3.0	PI88788
Hoegemeyer Hybrids, 1755 Hoegemeyer Rd, Hooper, NE 68031, 800-AGLINE1, askus@hoegemeyer.com, www.therightseeds.com					
Hoegemeyer	273NRR	2.7	Y	2.0	PI88788
Iowa State University Research Foundation, 310 Lab of Mechanics, Ames, IA 50011, 515-294-9442, jjgus@iastate.edu, www.ag.iastate.edu/centers/cad/index.html					
IA Ag. Exp. Station	IA2036	2.0	N	3.6	PI88788
IA Ag. Exp. Station	IA2036LF	2.0	N	3.8	PI88788
Jacobsen Hybrid Corn Co., Inc., 129 9th St., Lake View, IA 51450-0379, 800-761-1024, jacoseeds@netins.net					
Jacobsen	J 703N	2.2	N	1.8	PI88788
Jacobsen	J 730NR	2.2	Y	1.6	PI88788
Jacobsen	J 744NR	2.4	Y	2.2	PI88788
Jacobsen	J 746NR	2.6	Y	2.9	PI88788
Jacobsen	J 848NR	2.8	Y	2.3	PI88788
Kruger Seed Company, Hwy 20 East, PO Box A, Dike, IA 50624, 319-989-2414, blair@krugerseed.com, www.krugerseed.com					
Kruger Seed Co.	2320 SCN	2.3	N	2.9	PI88788
Kruger Seed Co.	243 RR/SCN	2.4	Y	2.9	PI88788
Kruger Seed Co.	265 + RR/SCN	2.6	Y	3.5	PI88788
Kruger Seed Co.	277 + RR/SCN	2.7	Y	3.7	PI88788
Kruger Seed Co.	282 RR/SCN	2.8	Y	2.7	PI88788
Kruger Seed Co.	287 RR/SCN	2.8	Y	3.1	PI88788
Kruger Seed Co.	288 RR/SCN	2.8	Y	3.0	PI88788
Kruger Seed Co.	2918 SCN	2.9	N	2.9	PI88788

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Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Land O Lakes, 2827 8th Ave. South, Fort Dodge, IA 50501, 515-574-2689, dbjorklund@landolakes.com					
Croplan Genetics	RC2020	2.0	Y	2.0	PI88788
Croplan Genetics	RC2300	2.3	Y	2.5	PI88788
Croplan Genetics	RC2424	2.4	Y	2.8	PI88788
Croplan Genetics	RC2500	2.5	Y	2.2	PI88788
Croplan Genetics	RC2525	2.5	Y	2.3	PI88788
Latham Seeds, 131 180th St., Alexander, IA 50420, 641-692-3258, markg@lathamseeds.com, www.lathamseeds.com					
Latham Seeds	L2038R	2.0	Y	2.0	PI88788
Latham Seeds	E2380	2.3	N	2.5	PI88788
Latham Seeds	E2480R	2.4	Y	2.6	PI88788
Latham Seeds	E2484	2.4	N	2.5	Peking
Latham Seeds	E2485R	2.4	Y	2.1	PI88788
Latham Seeds	L-688RRN	2.5	Y	2.2	PI88788
Latham Seeds	E2611RX	2.6	Y	2.7	CystX
Latham Seeds	L2620RX	2.6	Y	2.6	CystX
Latham Seeds	L-732CN	2.6	N	2.6	PI88788
Latham Seeds	E2811RX	2.8	Y	3.0	CystX
Latham Seeds	E2880R	2.8	Y	2.4	PI88788
Latham Seeds	E2884R	2.8	Y	2.3	PI88788
Latham Seeds	E2980	2.9	N	2.7	PI88788
Legend Seeds Inc., Box 241, 103 Hwy 14E., DeSmet, SD 57231, 605-854-3346, legend@legendseeds.net, www.legendseeds.net					
Legend Seeds	2024RRN	2.0	Y	1.9	PI88788
Legend Seeds	1912RRN	2.1	Y	2.1	PI88788
Legend Seeds	2434RRN	2.4	Y	2.5	Hartwig
Legend Seeds	2723RRN	2.7	Y	2.0	PI88788
LG Seeds, 22827 Shissler Rd., Elmwood, IL 61529, 800-752-6847, www.lgseeds.com					
LG Seeds	C2227NRR	2.2	Y	3.0	PI88788
LG Seeds	C2666NRR	2.6	Y	2.0	PI88788
LG Seeds	C2772N	2.7	N	2.5	PI88788
LG Seeds	C2777NRR	2.7	Y	2.0	PI88788
LG Seeds	C2844NRR	2.8	Y	1.5	PI88788
Merschman Seeds, Inc., 103 Ave. D., West Point, IA 52656, 319-837-6111/800-848-7333, merseeds@merschmanseeds.com, www.merschmanseeds.com					
Merschman	Mohawk RR	2.4	Y	2.5	Hartwig
Merschman	Cheyenne VII	2.4	N	2.4	PI88788
Merschman	Shawnee 527RR	2.7	Y	2.7	PI88788
Merschman	Chickasaw VIIRR	2.9	Y	2.2	PI88788
Midwest Seed Genetics, 23751 Hwy 30 East, Carroll, IA 51401, 712-792-6691, info@midwestseed.com, www.midwestseed.com					
Midwest Seed	G2015	2.0	N	2.1	Not Given
Midwest Seed	GR2031	2.0	Y	1.9	PI88788
Midwest Seed	GR2331	2.3	Y	2.9	PI88788
Midwest Seed	GR2332	2.3	Y	2.0	Not Given
Midwest Seed	GR2431	2.4	Y	2.1	Not Given
Midwest Seed	GR2631	2.6	Y	2.6	PI88788
Midwest Seed	GR2633	2.6	Y	2.6	Not Given
Midwest Seed	GR2831	2.8	Y	2.3	Not Given
Midwest Seed	GR2931	2.9	Y	3.0	PI88788

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Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Monsanto Company, 4312 Carol Avenue, Cortland, IL 60112 815-754-4809, diane.freeman@monsanto.com, www.monsanto.com					
DeKalb	DKB20-52	2.0	Y	4.0	Not Given
AsGrow	AG2107	2.1	Y	4.0	Not Given
AsGrow	AG2203	2.2	Y	5.0	Not Given
AsGrow	AG2405	2.4	Y	5.0	Not Given
DeKalb	DKB26-52	2.6	Y	4.0	Not Given
AsGrow	AG2705	2.7	Y	6.0	Not Given
AsGrow	A2869	2.8	N	3.0	Not Given
AsGrow	AG2801	2.8	Y	5.0	Not Given
DeKalb	DKB28-53	2.8	Y	4.0	Not Given
Mycogen Seeds, 9330 Zinsville Rd, Indianapolis, IN 46268, 1-800-Mycogen, www.mycogen.com					
Atlas Brand	5N203RR	2.0	Y	2.0	PI88788
Atlas Brand	5N233	2.3	N	2.3	PI88788
Atlas Brand	5N289RR	2.8	Y	2.3	PI88788
Atlas Brand	5N281	2.9	N	2.3	PI88788
NC+ Hybrids, 311 Rd 3168, Hastings, NE 68901, 402-463-5661, dwill@nc-plus.com, www.nc-plus.com					
NC+	2A22RR	2.2	Y	3.0	PI88788
NC+	2A92RR	2.9	Y	3.0	PI88788
NuTech Seed, 6131 North Fork Rd., Ames, IA 50010, 877-561-9067, seed1of2@aol.com, www.yieldleader.com					
NuTech Seed	212 SCN	2.1	N	2.7	PI88788
NuTech Seed	2121 RR/SCN	2.1	Y	3.1	PI88788
NuTech Seed	232 SCN	2.3	N	3.1	PI88788
NuTech Seed	2323 RR/SCN	2.3	Y	2.2	PI88788
NuTech Seed	242 SCN	2.4	N	2.9	PI88788
NuTech Seed	7246 RR/SCN	2.5	Y	3.1	PI88788
NuTech Seed	2525 RR/SCN	2.5	Y	2.9	Hartwig/PI88788
NuTech Seed	2650 RR/SCN	2.6	Y	2.9	PI88788
NuTech Seed	2727 RR/SCN	2.7	Y	3.0	PI88788
NuTech Seed	2711 RR/SCN	2.7	Y	2.3	PI88788
NuTech Seed	2818 RR/SCN	2.8	Y	3.0	PI88788
NuTech Seed	2828 RR/SCN	2.8	Y	2.8	Peking/PI88788
NuTech Seed	282 SCN	2.8	N	3.3	PI88788
NuTech Seed	292 SCN	2.9	N	3.0	PI88788
NuTech Seed	2929 RR/CystX	2.9	Y	3.1	CystX
Ottilie Seed, 1462 Sanford Ave., Marshalltown, IA 50158, 641-753-5561, ottiliero@marshallnet.com, www.ottilieseeds.com					
Ottilie Seed	R08218RRN	2.1	Y	1.8	PI88788
Ottilie Seed	R08233N	2.3	N	2.4	PI88788
Ottilie Seed	R08247RRN	2.4	Y	1.9	PI88788
Ottilie Seed	R08269RRN	2.6	Y	2.1	PI88788
Ottilie Seed	R08287RRN	2.8	Y	2.1	PI88788
Ottilie Seed	R08290RRN	2.9	Y	2.3	PI88788
Pioneer Hi-Bred International, Inc., 5700 Merle Hay Road, PO Box 454, Johnston, IA 50131, 515-253-5892, www.pioneer.com					
Pioneer	92B12	2.1	N	4.0	Peking
Pioneer	92M30	2.3	Y	5.0	PI88788
Pioneer	92M40	2.4	Y	4.0	PI88788
Pioneer	92M70	2.7	Y	5.0	PI88788
Pioneer	92M92	2.9	Y	4.0	PI88788

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Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Prairie Brand Seed Co., 15X Ave., Story City, IA 50248, 515-733-2101, mike@prairiebrandseed.com, www.prairiebrandseed.com					
Prairie Brand	PB-2183NRR	2.1	Y	2.0	PI88788
Prairie Brand	PB-2494NRR	2.4	Y	2.5	PI88788
Prairie Brand	PB-2594NRR	2.5	Y	2.8	437654/PI88788
Prairie Brand	PB-2606NRR	2.6	Y	2.5	PI88788
Prairie Brand	PB-2694NRR	2.6	Y	2.5	PI88788
Prairie Brand	PB-2794NRR	2.7	Y	2.5	PI88788
Prairie Brand	PB-2894NRR	2.8	Y	2.5	PI88788
Producers Hybrids, Inc., PO Box C, Battle Creek, NE 68715, 888-675-3190, info@producershybrids.com, www.producershybrids.com					
Producers Hybrids	203NRR	2.0	Y	1.7	PI88788
Producers Hybrids	238NRR	2.3	Y	2.2	PI88788
Producers Hybrids	243NRR	2.4	Y	1.9	PI88788
Producers Hybrids	261NRR	2.6	Y	2.4	PI88788
Renze Hybrids Inc., 27410 Kittyhawk Ave., Carroll, IA 51401, 712-669-3301, renze@netins.net, www.renzehybrids.com					
Renze	R2094Rcn	2.0	Y	2.0	PI88788
Renze	R2483Rcn	2.4	Y	2.2	PI88788
Renze	R2485Rcn	2.4	Y	2.1	PI88788
Renze	R2695RCX	2.6	Y	3.0	CystX
Renze	R2783Rcn	2.7	Y	2.2	PI88788
Renze	R2885Rcn	2.8	Y	2.3	PI88788
Renze	R2994Rcn	2.9	Y	2.2	PI88788
Royster-Clark, Inc., 717 Robinson Road SE, Washington C.H., OH 43160, 800-659-7790, mdschonauer@roysterclark.com, www.roysterclark.com, www.vigorseeds.com					
Vigoro	V23N5RR	2.3	Y	2.1	PI88788
Vigoro	V24C5RR	2.4	Y	2.9	CystX
Vigoro	V28N5RR	2.8	Y	2.3	PI88788
Vigoro	V29C5RR	2.9	Y	Not Given	CystX
Sands of Iowa, 4765 Hwy 143, Marcus, IA 51035, 800-831-0034, soi@sandsofiowa.com, www.sandsofiowa.com					
Sands of Iowa	SOI 2042NRR	2.0	Y	2.5	PI88788
Sands of Iowa	SOI 201N	2.1	N	3.0	PI88788
Sands of Iowa	SOI 2151NRR	2.1	Y	2.0	PI88788
Sands of Iowa	SOI 228N	2.2	N	2.5	PI88788
Sands of Iowa	SOI 2341NRR	2.3	Y	2.5	PI88788
Sands of Iowa	SOI 235NRR	2.3	Y	2.0	PI88788
Sands of Iowa	SOI 2461NRR	2.4	Y	2.0	PI88788
Sands of Iowa	SOI 2568XRR	2.5	Y	3.0	PUSCN-14
Sands of Iowa	SOI 2642NRR	2.6	Y	2.5	PI88788
Sands of Iowa	SOI 2664XRR	2.6	Y	3.0	PUSCN-14
Sands of Iowa	SOI 2858NRR	2.8	Y	2.5	PI88788
Schillinger Seed, 4200 Corporate Dr., Suite 106, West Des Moines, IA 50266, 515-225-1166 Ext. 101 or 106, jschillinger@schillingerseed.com					
Schillinger Seed	265.RC	2.6	Y	3.0	PI88788
Schillinger Seed	291.TC	2.9	N	2.6	PI88788
Sieben Hybrids, Inc., 633 N. College Ave., Geneseo, IL 61254, 309-944-5131, philj@siebenhybrids.com, www.siebenhybrids.com					
Sieben	2304NRR	2.3	Y	2.3	PI88788
Sieben	2600NRR	2.6	Y	2.9	PI88788
Sieben	2603NRR	2.6	Y	3.1	PI88788
Sieben	CR26	2.6	Y	2.8	CystX
Sieben	2704NRR	2.7	Y	2.2	PI88788

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Table 2. Soybean cyst nematode-resistant soybean varieties for maturity group II, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Sieben Hybrids, Inc., continued					
Sieben	2805NRR	2.8	Y	2.7	PI88788
Sieben	2900NRR	2.9	Y	2.7	PI88788
Sieben	2903NRR	2.9	Y	3.0	PI88788
Sieben	293N	2.9	N	2.5	PI88788
Sieben	CR29	2.9	Y	2.5	CystX
South Dakota State University, NPB247, Box 2140C, Brookings, SD 57007					
SD Ag. Exp. Station	Turner	2.6	N	3.5	PI88788
Stine Seed Company, 2225 Laredo Trail, Adel, IA 50003, 515-677-2605, info@stineseed.com, www.stineseed.com					
Stine	2000-2	2.0	N	3.5	PI88788
Stine	S2032-4	2.0	Y	3.5	PI88788
Stine	1892-2	2.1	N	2.5	PI88788
Stine	2100-2	2.1	N	3.5	PI88788
Stine	S2342-4	2.1	Y	2.8	PI88788
Stine	S2702-4	2.7	Y	2.5	PI88788
Stine	2972-2	2.9	N	3.5	PI88788
Sucrosco Seeds, 353 Main, Box 309, Manilla, IA 51454, 712-654-2732, sucrosco@fmctc.com, www.sucrosco.com					
Sucrosco	B823-01RN	2.3	Y	2.7	PI88788
Sucrosco	7261RN	2.6	Y	2.5	PI88788
Sucrosco	7280RN	2.8	Y	3.0	PI88788
Sucrosco	B828-01RN	2.8	Y	2.2	PI88788
Sucrosco	7291RN	2.9	Y	2.9	PI88788
Syngenta Seeds Inc., 1525 Airport Road, Ames, IA 50010, 515-233-5395, john.harker@syngenta.com					
NK Brand	S21-Q1	2.1	Y	3.0	PI88788
NK Brand	X425R	2.5	Y	3.0	PI88788
NK Brand	S26-H2	2.6	Y	3.0	PI88788
NK Brand	S26-V6	2.6	Y	3.5	PI88788
NK Brand	X427R	2.7	Y	3.5	PI88788
NK Brand	S28-L9	2.8	Y	3.0	PI88788
NK Brand	X430R	2.9	Y	3.0	PI88788
Trelay, 11623 Hwy 80, Livingston, WI 53554, 608-943-6363, jasonb@trelay.com, www.trelay.com					
High Cycle	2202RR/SCN	2.0	Y	2.0	PI88788
High Cycle	2264	2.6	Y	2.8	CystX
High Cycle	2284RR/SCN	2.8	Y	2.3	PI88788
University of Illinois, 1101 W. Peabody Dr., Urbana, IL 61801, 217-265-4062, bdiers@uiuc.edu					
IL. Ag Exp. Station	Loda	2.1	N	Not Given	PI88788
IL. Ag Exp. Station	Dwight	2.9	N	Not Given	PI88788
Wilson Seeds, Inc., 1112 Morningview Drive; PO Box 391, Harlan, IA 51537, 712-755-3841 or 800-747-1200, info@wilsonseeds.com, www.wilsonseeds.com					
Wilson Seeds	2081RR	2.0	Y	1.9	PI88788
Wilson Seeds	2334RR	2.3	Y	2.0	PI88788
Wilson Seeds	2401RR	2.4	Y	2.1	PI88788
Wilson Seeds	2601RR	2.6	Y	2.6	PI88788
Wilson Seeds	2801RR	2.8	Y	2.3	PI88788
Ziller Seed Co., Inc., 76374 380th St., Bird Island, MN 55310, 320-365-3674, tziller@zillerseed.com, www.zillerseed.com					
Ziller	BT 7204NR	2.0	Y	2.0	PI88788

Table 3. Soybean cyst nematode-resistant soybean varieties for maturity group III.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
AgVenture, 207 N. Seventh, Kentland, IN 47951, 219-474-5557, jshaner@agventure.com, www.agventure.com					
AgVenture	AV32T3NRR	3.2	Y	3.1	PI88788
AgVenture	AV33TON	3.3	N	2.5	Hartwig/PI88788
AgVenture	AV34T1NRR	3.4	Y	3.2	PI88788
AgVenture	AV6361NRR	3.6	Y	2.9	PI88788
AgVenture	AV6372NRR	3.7	Y	3.1	PI88788
Ahrenholtz Seeds, 3431 Hwy 141, Manilla, IA 51454, 712-654-3169, ahrenholtzseeds@fmctc.com					
Ahrenholtz Seeds	A3502X	3.2	Y	Not Given	CystX
Bo-Jac Seed Company, 245 1500th Ave., Mt. Pulaski, IL 62548, 800-397-2069, tim@bo-jac.com, www.bo-jac.com					
Mavrick	4319RR	3.1	Y	2.4	PI88788
Mavrick	2323RR	3.2	Y	2.7	PI88788
Mavrick	3344RR	3.4	Y	2.7	PI88788
Mavrick	1363RR	3.6	Y	2.5	PI88788
Mavrick	2373RR	3.7	Y	3.0	PI88788
Mavrick	3399RR	3.9	Y	3.0	PI88788
Crows Hybrid Co., 612 E Dunlap, Kentland, IN 47951, 219-474-6957, wayne.hoener@channelbio.com, www.crowshybrid.com					
Crow's	C3117R	3.1	Y	2.9	PI88788
Crow's	C3317R	3.3	Y	2.5	PI88788
Crow's	C3518R	3.5	Y	2.5	PI88788
Crow's	3715R	3.7	Y	3.5	PI88788
Crow's	3717R	3.7	Y	3.6	PI88788
Crow's	C37003N	3.7	N	3.7	PI88788
Crow's	3915R	3.9	Y	2.8	PI88788
Dairyland Seed Co. Inc., PO Box 958, 3750 Hwy H, West Bend, WI 53095, 800-236-0163, www.dairylandseed.com					
Dairyland	DSR-3002/RR	3.0	Y	2.7	PI88788
Dairyland	DSR-301/RR	3.1	Y	2.4	PI88788
Dairyland	DSR-326/RR	3.3	Y	2.6	PI88788
Dairyland	DSR-327/RR	3.3	Y	2.6	PI88788
Dairyland	DSR-340/RR	3.4	Y	2.7	PI88788
Dairyland	DST34-000/RRHP	3.4	Y	Not Given	Peking
Dairyland	DSR-3500/RR	3.5	Y	2.7	PI88788
Dairyland	DSR-355	3.5	N	2.9	PI88788
Dairyland	DSR-363/RR	3.6	Y	2.4	PI88788
Dairyland	DSR-375/RR	3.8	Y	2.9	PI88788
Dairyland	DSR-3800/RR	3.8	Y	3.0	PI88788
Dairyland	DSR-385/RR	3.8	Y	2.6	PI88788
Dairyland	DSR-401/RR	3.9	Y	2.7	PI88788
Dyna-Gro, M64 South, Wall Lake, IA 50536, 507-327-8136, www.yieldadvantage.com					
Dyna-Gro	31T31	3.1	Y	2.0	PI88788
Dyna-Gro	32M32	3.2	Y	2.5	PI88788
Dyna-Gro	35D33	3.3	Y	2.5	PI88788
Dyna-Gro	34F35	3.5	Y	2.5	PI88788
Dyna-Gro	33A37	3.7	Y	3.0	PI88788
Dyna-Gro	36R37	3.7	Y	Not Given	CystX
Dyna-Gro	32C38	3.8	Y	1.7	PI88788
Dyna-Gro	3386NSTS	3.8	N	3.0	PI88788

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Table 3. Soybean cyst nematode-resistant soybean varieties for maturity group III, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Excel Brand, 116 E. State, Camp Point, IL 62320, 800-593-7708					
Excel Brand	8332NNRR	3.2	Y	2.7	PI88788
Excel Brand	8342NNRR	3.4	Y	2.7	PI88788
Excel Brand	8343NNRR	3.5	Y	2.7	PI88788
Excel Brand	8357NNRR	3.5	Y	2.7	PI88788
Excel Brand	8378NRR	3.6	Y	3.3	PI88788
Excel Brand	8374RR CystX	3.7	Y	Not Given	CystX
Excel Brand	8384NRR	3.8	Y	2.8	PI88788
Excel Brand	8362NRR	3.9	Y	2.3	PI88788
Excel Brand	8390NNRR	3.9	Y	3.0	PI88788
Excel Brand	8393NRR	3.9	Y	2.3	PI88788
Farm Advantage, 1275 Hwy 69, Belmond, IA 50421, 641-444-3344, farmadv@kalnet.com, www.farmadvantage.com					
Farm Advantage	3154N	3.1	N	2.4	PI88788
Farm Advantage	7323N	3.2	Y	1.9	PI88788
Farm Advantage	7345N	3.4	Y	2.8	PI88788
FC Brand/Farmers Cooperative Co., 105 Garfield Ave., Farnhamville, IA 50538, 515-544-3213, tclaussen@fccoop.com, www.fccoop.com					
FC Brand	3149RR-SCN	3.1	Y	2.3	PI88788
Fontanelle Hybrids, 10981 8th St., Fontanelle, NE 68044, 402-721-1410, spike@fontanelle.com, www.fontanelle.com					
Fontanelle	9412NRR	3.1	Y	2.4	PI88788
Fontanelle	9162NRR	3.6	Y	2.5	PI88788
Fontanelle	9371NRR	3.7	Y	2.7	PI88788
Fontanelle	9391NRR	3.9	Y	2.7	PI88788
Four Star Seed Company, PO Box 88, Parkersburg, IA 50665, 712-644-1400, dkenealy@loganet.net, www.4starseed.com					
Four Star Seed	2314RR	3.1	Y	2.4	PI88788
Four Star Seed	2356RR	3.5	Y	2.5	PI88788
Garst Seed Company, 2369 330th St., Slater, IA 50244, garstguy@garstseedco.com, www.garstseed.com					
Garst	3112RR/N	3.1	Y	2.6	PI88788
PSA	9315RR/N	3.1	Y	4.6	PI88788
Garst	3212RR/N	3.2	Y	3.1	PI88788
Garst	3512RR/N	3.5	Y	3.2	PI88788
Garst	3585N	3.5	N	4.2	PI88788
Garst	3624RR/N	3.6	Y	3.1	PI88788
Garst	D363STS/N	3.6	N	3.2	PI88788
Garst	3712RR/N	3.7	Y	3.6	PI88788
Garst	3812RR/N	3.8	Y	4.0	PI88788
Garst	3824RR/N	3.8	Y	4.4	PI88788
Garst	3906N	3.9	N	4.0	PI88788
Garst	D399RR/N	3.9	Y	3.5	PI88788
Golden Harvest Seeds, Inc., 220 N. Eldorado Road, Suite E, Bloomington, IL 61704, West 402-289-0245 (Bob Sis)/East 309-654-2234 (Ken Martin), bsis@jcro.com/kmartin@goldenseedco.com, www.goldenharvestseeds.com					
Golden Harvest	H-3281RR	3.2	Y	2.6	PI88788
Golden Harvest	H-3554RR	3.5	Y	Not Given	PUSCN14
Golden Harvest	H3606RR	3.6	Y	2.8	PI88788
Golden Harvest	H-3933RR/STS	3.9	Y	Not Given	PI88788

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Table 3. Soybean cyst nematode-resistant soybean varieties for maturity group III, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Great Lakes Hybrids, 9915 W. M-21, Ovid, MI 48866, 989-834-2251, mitch.ray@greatlakeshybrids.com					
Great Lakes Hybrids	GL3009	3.0	N	1.0	PI88788
Great Lakes Hybrids	GL3119RR	3.1	Y	2.5	PI88788
Great Lakes Hybrids	GL3309	3.3	N	2.7	PI88788/Hartwig
Great Lakes Hybrids	GL3409RR	3.4	Y	2.7	PI88788
Great Lakes Hybrids	GL3619RR	3.6	Y	2.0	PI88788
Green Valley Seed - WSDA, PO Box 35, Kahoka, MO 63445, 660-727-3341, kksowers@interlinkle.net, www.willcross.com					
Willcross	2323N	3.2	Y	2.8	PI88788
Willcross	2335N	3.3	Y	2.4	PI88788
Willcross	2354N	3.5	Y	3.1	PI88788
Willcross	2373N	3.7	Y	Not Given	PI88788
Willcross	2385N	3.8	Y	2.5	PI88788
GROWMARK, Inc., 1701 Towanda Ave., Bloomington, IL 61701, 309-557-6399, hisoy@growmark.com, www.fssystem.com					
FS HiSOY	HS 3236	3.2	Y	2.5	PI88788
FS HiSOY	HS 3306	3.3	Y	3.0	PI88788
FS HiSOY	HS 3536	3.5	Y	3.0	PI88788
FS HiSOY	HS 3591	3.5	N	4.0	PI88788
FS HiSOY	HS 3706	3.7	Y	3.5	PI88788
FS HiSOY	HS 3726	3.7	Y	Not Given	PI88788
FS HiSOY	HS 3916	3.7	Y	Not Given	PI88788
FS HiSOY	HS 3892	3.8	N	3.5	PI88788
FS HiSOY	HS 3616	3.8	Y	2.5	PI88788
FS HiSOY	HS 3936	3.9	Y	Not Given	PI88788
Hoegemeyer Hybrids, 1755 Hoegemeyer Rd, Hooper, NE 68031, 800-AGLINE1, askus@hoegemeyer.com, www.therightseeds.com					
Hoegemeyer	312NRR	3.1	Y	3.0	PI88788
Hoegemeyer	344NRS	3.4	Y	2.5	PI88788
Hoegemeyer	357NRR	3.6	Y	2.5	PI88788
Hoegemeyer	381NRS	3.8	Y	2.5	PI88788
Hoegemeyer	391NRR	3.9	Y	3.0	PI88788
Iowa State University Research Foundation, 310 Lab of Mechanics, Ames, IA 50011, 515-294-9442, jjgus@iastate.edu, www.ag.iastate.edu/centers/cad/index.html					
IA Ag. Exp. Station	IA3014	3.0	N	Not Given	PI88788
IA Ag. Exp. Station	IA3005	3.0	N	Not Given	PI88788
Jacobsen Hybrid Corn Co., Inc., 129 9th St., Lake View, IA 51450-0379, 800-761-1024, jacoseeds@netins.net					
Jacobsen	J 910R	3.2	Y	2.2	PI88788
Kruger Seed Company, Hwy 20 East, PO Box A, Dike, IA 50624, 319-989-2414, blair@krugerseed.com, www.krugerseed.com					
Kruger Seed Co.	346 RR/SCN	3.4	Y	3.3	PI88788
Kruger Seed Co.	355 RR/SCN	3.5	Y	3.1	PI88788
Kruger Seed Co.	3777 SCN	3.8	N	3.9	PI88788
Kruger Seed Co.	379 RR/SCN	3.7	Y	2.6	PI88788
Kruger Seed Co.	380 RR/SCN	3.8	Y	4.2	PI88788
Kruger Seed Co.	389 RR/SCN	3.8	Y	3.4	PI88788
Kruger Seed Co.	393 + RR/SCN	3.9	Y	3.3	PI88788

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Table 3. Soybean cyst nematode-resistant soybean varieties for maturity group III, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
LG Seeds, 22827 Shissler Rd., Elmwood, IL 61529, 800-752-6847, www.lgseeds.com					
LG Seeds	C3000NSTS	3.0	N	2.5	PI88788
LG Seeds	C3110NRR	3.1	Y	2.5	PI88788
LG Seeds	C3322NRR	3.3	Y	3.0	PI88788
LG Seeds	C3444NRR	3.4	Y	2.5	PI88788
LG Seeds	C3883N	3.8	N	Not Given	PI88788
LG Seeds	C3944NRR	3.9	Y	3.0	PI88788
LG Seeds	C3999NRR	3.9	Y	1.5	PI88788
Merschman Seeds, Inc., 103 Ave. D., West Point, IA 52656, 319-837-6111/800-848-7333, merseeds@merschmanseeds.com, www.merschmanseeds.com					
Merschman	Coolidge IIIRR	3.2	Y	1.9	PI88788
Merschman	Grant IIIRR	3.5	Y	3.1	PI88788
Merschman	Kennedy 538RR	3.8	Y	2.6	PI88788
Merschman	Washington IXRR	3.8	Y	3.0	PI88788
Merschman	Cleveland VIIRR	3.9	Y	2.5	PI88788
Midwest Seed Genetics, 23751 Hwy 30 East, Carroll, IA 51401, 712-792-6691, info@midwestseed.com, www.midwestseed.com					
Midwest Seed	GR3131	3.1	Y	2.7	PI88788
Midwest Seed	GR3333	3.3	Y	2.4	Not Given
Midwest Seed	GR3531	3.5	Y	2.3	PI88788
Midwest Seed	GR3533	3.5	Y	2.5	Not Given
Midwest Seed	G3570N	3.7	N	2.2	Not Given
Midwest Seed	GR3731	3.7	Y	3.5	Not Given
Midwest Seed	GR3732	3.7	Y	3.6	Not Given
Midwest Seed	GR3832	3.8	Y	2.5	Not Given
Midwest Seed	GR3931	3.9	Y	2.5	PI88788
Monsanto Company, 4312 Carol Avenue, Cortland, IL 60112 815-754-4809, diane.freeman@monsanto.com, www.monsanto.com					
AsGrow	AG3101	3.1		Not Given	Not Given
AsGrow	AG3201	3.2		5.0	Not Given
AsGrow	AG3202	3.2		4.0	Not Given
AsGrow	AG3305	3.3		Not Given	Not Given
AsGrow	AG3401	3.4		5.0	Not Given
DeKalb	DKB34-51	3.4		Not Given	Not Given
AsGrow	A3525	3.5		Not Given	Not Given
AsGrow	AG3602	3.6		Not Given	Not Given
DeKalb	DKB36-52	3.6		Not Given	Not Given
DeKalb	DKB37-51	3.7		5.0	Not Given
AsGrow	AG3802	3.8		Not Given	Not Given
DeKalb	DKB38-52	3.8		6.0	Not Given
AsGrow	AG3905	3.9		5.0	Not Given
AsGrow	AG3906	3.9		Not Given	Not Given
Mycogen Seeds, 9330 Zinsville Rd, Indianapolis, IN 46268, 1-800-Mycogen, www.mycogen.com					
Atlas Brand	5N327RR	3.2	Y	3.0	PI88788
Atlas Brand	5N351RR	3.4	Y	2.3	PI88788
Atlas Brand	5N391RR	3.9	Y	2.0	PI88788
NC+ Hybrids, 311 Rd 3168, Hastings, NE 68901, 402-463-5661, dwill@nc-plus.com, www.nc-plus.com					
NC+	3N31RR	3.3	Y	3.0	PI88788
NC+	3A53RR	3.5	Y	3.0	PI88788
NC+	3A92RR	3.9	Y	3.0	PI88788

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Table 3. Soybean cyst nematode-resistant soybean varieties for maturity group III, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
NuTech Seed, 6131 North Fork Rd., Ames, IA 50010, 877-561-9067, seed1of2@aol.com, www.yieldleader.com					
NuTech Seed	343 SCN	3.4	N	3.2	PI88788
NuTech Seed	3434 RR/SCN	3.4	Y	3.1	PI88788
NuTech Seed	3535 RR/SCN	3.5	Y	3.0	PI88788
NuTech Seed	3737 RR/SCN	3.7	Y	3.2	PI88788
NuTech Seed	383 SCN	3.8	N	3.7	PI88788
NuTech Seed	3999 RR/SCN	3.8	Y	3.8	PI88788
NuTech Seed	3909 RR/SCN/STS	3.8	Y	3.0	PI88788
NuTech Seed	3922 RR/SCN	3.9	Y	2.9	PI88788
Ottilie Seed, 1462 Sanford Ave., Marshalltown, IA 50158, 641-753-5561, ottiliero@marshallnet.com, www.ottilieseed.com					
Ottilie Seed	R08303N	3.0	N	3.0	PI88788
Ottilie Seed	R08332RRN	3.2	Y	2.4	PI88788
Ottilie Seed	R08353RRN	3.5	Y	2.3	PI88788
Pioneer Hi-Bred International, Inc., 5700 Merle Hay Road, PO Box 454, Johnston, IA 50131, 515-253-5892, www.pioneer.com					
Pioneer	93M10	3.1	Y	5.0	PI88788
Pioneer	93M30	3.3	Y	4.0	PI88788
Pioneer	93M50	3.5	Y	5.0	PI88788
Pioneer	93M60	3.6	Y	4.0	PI88788
Pioneer	93B85	3.8	Y	4.0	PI88788
Pioneer	93B86	3.8	N	4.0	PI88788
Pioneer	93M80	3.8	Y	5.0	PI88788
Pioneer	93M90	3.9	Y	3.0	PI88788
Prairie Brand Seed Co., 15X Ave., Story City, IA 50248, 515-733-2101, mike@prairiebrandseed.com, www.prairiebrandseed.com					
Prairie Brand	PB-3094NRR	3.0	Y	3.0	CystX
Prairie Brand	PB-3383NRR	3.3	Y	2.5	PI88788
Prairie Brand	PB-3494NRR	3.4	Y	3.0	PI88788
Prairie Brand	PB-3594NRR	3.5	Y	3.0	CystX
Prairie Brand	PB-3894NRR	3.8	Y	3.0	PI88788
Producers Hybrids, Inc., PO Box C, Battle Creek, NE 68715, 888-675-3190, info@producershybrids.com, www.producershybrids.com					
Producers Hybrids	353NRR	3.5	Y	3.0	PI88788
Producers Hybrids	383NRR	3.8	Y	3.0	PI88788
Renze Hybrids Inc., 27410 Kittyhawk Ave., Carroll, IA 51401, 712-669-3301, renze@netins.net, www.renzehybrids.com					
Renze	R3383Rcn	3.3	Y	2.8	PI88788
Renze	R3595RCX	3.5	Y	3.0	CystX
Renze	R3684Rcn	3.6	Y	2.7	PI88788
Renze	R3885SRcn	3.8	Y	2.5	PI88788
Renze	R3994Rcn	3.9	Y	2.3	PI88788
Schillinger Seed, 4200 Corporate Dr., Suite 106, West Des Moines, IA 50266, 515-225-1166 Ext. 101 or 106, jschillinger@schillingerseed.com					
Schillinger Seed	300.RC	3.0	Y	2.8	PI88788
Sieben Hybrids, Inc., 633 N. College Ave., Geneseo, IL 61254, 309-944-5131, philj@siebenhybrids.com, www.siebenhybrids.com					
Sieben	3104NRR	3.1	Y	2.7	PI88788
Sieben	3203NRR	3.2	Y	2.8	PI88788
Sieben	CR34	3.4	Y	2.5	CystX
Sieben	CR37	3.7	Y	2.5	CystX

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Table 3. Soybean cyst nematode-resistant soybean varieties for maturity group III, continued.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Stine Seed Company, 2225 Laredo Trail, Adel, IA 50003, 515-677-2605, info@stineseed.com, www.stineseed.com					
Stine	S3242-4	/3.2	Y	3.5	PI88788
Stine	S3532-4	3.5	Y	3.0	PI88788
Stine	S3832-4	3.8	Y	3.0	PI88788
Stine	S3942-4	3.9	Y	3.3	PI88788
Sucroscosco Seeds, 353 Main, Box 309, Manilla, IA 51454, 712-654-2732, sucroscosco@fmctc.com, www.sucroscosco.com					
Sucroscosco	7319RN	3.1	Y	2.5	PI88788
Sucroscosco	B834-01RN	3.2	Y	2.5	PI88788
Sucroscosco	B833-01RN	3.3	Y	2.6	PI88788
Sucroscosco	B935-01R	3.4	Y	Not Given	CystX
Sucroscosco	B835-01RN	3.5	Y	Not Given	PI88788
Sucroscosco	7361RN	3.7	Y	2.5	PI88788
Syngenta Seeds Inc., 1525 Airport Road, Ames, IA 50010, 515-233-5395, john.harker@syngenta.com					
NK Brand	S31-V3	3.2	Y	3.0	PI88788
NK Brand	S34-U4	3.4	Y	2.5	PI88788
NK Brand	S37-N4	3.7	Y	3.5	PI88788
NK Brand	S38-T8	3.8	N	3.0	PI88788
NK Brand	S39-K6	3.9	Y	3.5	PI88788
University of Illinois, 1101 W. Peabody Dr., Urbana, IL 61801, 217-265-4062, bdiers@uiuc.edu					
IL. Ag Exp. Station	Maverick	3.8	N	Not Given	PI88788
IL. Ag Exp. Station	Pana	3.8	N	Not Given	PI88788
IL. Ag Exp. Station	Yale	3.8	N	Not Given	PI88788
University of Missouri, Department of Agronomy, Columbia, MO 65211, 573-882-7320, www.psu.missouri.edu/agron					
MO Ag. Exp. Station	4337	3.2	N	Not Given	Peking/PI88788
MO Ag. Exp. Station	Maverick	3.8	N	Not Given	PI88788
MO Ag. Exp. Station	Saline	3.9	N	Not Given	PI88788
Wilson Seeds, Inc., 1112 Morningview Drive; PO Box 391, Harlan, IA 51537, 712-755-3841 or 800-747-1200, info@wilsonseeds.com, www.wilsonseeds.com					
Wilson Seeds	3103RR	3.1	Y	2.7	PI88788
Wilson Seeds	3301RR	3.3	Y	2.4	PI88788
Wilson Seeds	3562RR	3.5	Y	2.5	PI88788
Wilson Seeds	3700	3.7	N	2.2	PI88788
Wilson Seeds	3790RR	3.7	Y	3.6	PI88788
Wilson Seeds	3960RR	3.9	Y	2.5	PI88788

The 2004 Soybean cyst nematode-resistant soybean varieties for Iowa publication is brought to you, in part, by the Iowa Soybean Promotion Board . . . investing checkoff dollars!

