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2005 Iowa Crop Performance Test—Soybeans

The Iowa Crop Performance Test—Soybeans is conducted each year to provide information farmers need to select the best varieties or brands for their production conditions. This information can be downloaded on the Internet at www.iasoybeans.com or <http://extension.agron.iastate.edu/varietytesting/>. All entries in a test were evaluated at three locations with low counts of soybean cyst nematodes in all districts (see Figure 1). Entries designated as resistant to soybean cyst nematodes also were submitted to a soybean cyst nematode (SCN) reproduction test in a growth chamber. The northern district includes the northern three tiers of counties, the central district includes the central three tiers, and the southern district includes the southern three tiers of counties in Iowa.

Entries

Seed companies, Iowa farmers, and the Iowa Crop Improvement Association are eligible to include entries in the Iowa Crop Performance Test—Soybeans. All entries

were made voluntarily, except those designated by the Iowa Crop Improvement Association as widely grown check varieties or brands. These check entries, designated by an asterisk in Tables 2 through 13, were grown on at least 2 percent of the acres in a district based on a survey of Iowa farmers conducted by the Iowa Crop Improvement Association. Entry names listed in the tables are entrant designations and are listed alphabetically by brand. The seed used to plant all entries in the 2005 test was submitted by the originators.

Growing Conditions

The average yield of all entries at a test site provides an indication of overall production conditions at that location (see Table 1). Satisfactory data were obtained from most of the testing locations in 2005. Non-uniform field conditions caused us to discard data from one test at one location in the northern district and two tests at one location in the southern district.

Testing Procedures

Entries were grown in four-row plots with a row spacing of 27 inches. The seeding rate was nine seeds per foot (157,000 seeds per acre) unless a different rate was requested by the entrant. Seeding rates are included in Table 15. Three replications of the entries were used at each location. Two postemerge herbicide tests were offered for each district.

Conventional Herbicide Test: In the northern district, entries with a maturity equal to or earlier than Century 84 (RM 2.6) were accepted. In the central district, entries with a maturity equal to or earlier than Resnik (RM 3.3) were accepted. In the southern district, entries with a maturity equal to or earlier than Williams 82 (RM 3.9) were accepted. Conventional herbicides were used for weed control.



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Roundup® Herbicide Test: Entries resistant to Roundup® herbicide were included in a separate test in each district following the same maturity guidelines as the conventional herbicide test.

Characters Evaluated

Yield: The plots were harvested with a self-propelled plot combine. Seed weights and moisture content were collected on the combine. Yields are reported in bushels per acre at a moisture content of 13 percent, and as a percentage of the mean yield of the test.

Maturity: An entry was considered mature when 95 percent of the pods had turned brown. Seven to 10 days of good drying weather were required beyond that date before the soybeans were ready to combine. Maturity was evaluated at one location in each district. Maturity date is reported as “days from the beginning of September.” A “7” is September 7th, while “32” is October 2nd.

Height: Plant height was measured in inches from the soil surface to the top node of the main stem. Height was measured at all test locations.

Lodging: Scores were based on the average erectness of the main stem of all plants at maturity: 1 = all plants erect, 2 = slight lodging, 3 = plants lodged at 45° angle, 4 = severe lodging, and 5 = all plants flat. Lodging was scored at all locations in each district.

Soybean Cyst Nematode: Varietal resistance to soybean cyst nematode is complex because multiple genes control resistance in soybeans, and nematodes are not genetically uniform from field to field. Unique resistance genes have been introduced into commercial soybean varieties/brands from soybean germplasm obtained from other countries, often referred to as Plant Introductions (PIs). In the past, the genes providing resistance in a variety were traceable to a single PI source. Today, however, many varieties have genes from several PI sources, and the resulting gene mixtures are difficult to trace to the original sources. The PI source of resistance is listed in the 2005 report only as a guide for possible genetic diversity. Due to this genetic complexity in soybeans and the genetic complexity of nematode populations, a broad-based approach using naturally occurring SCN populations was used to measure an entry's resistance.

Nematodes were collected from one Iowa soil and used for evaluation of all SCN entries. Seedlings of each SCN entry were grown for 30 days in a growth room in Iowa using a 50/50 mix of the infested soil and sand. After 30 days, the roots were washed and the cysts were collected and counted. An index of percent reproduction was calculated for each entry by dividing an entry's

average cyst count by the average number of cysts found on Lee 74, the standard susceptible check variety. The reported score is an average of three replications. The SCN population was primarily race 3.

PI check varieties were also included in this test. PI88788 had an average reproduction of 3.3 percent, PI548316 (Cloud) had an average reproduction of 4.2 percent, and all other PIs had an average reproduction less than 1 percent.

Protein and Oil Content: The protein and oil content of the entries was determined with an Infratec near-infrared transmittance analyzer. The Infratec analyzer was calibrated by the Department of Agricultural and Biosystems Engineering at Iowa State University. Whole grain samples from all plots were analyzed. The reported values are an average across each district and are reported at 13 percent moisture.

Descriptive Information

Brown Stem Rot: Resistance information of each entry to brown stem rot was supplied by the entrant. Several genes provide protection for BSR and the level of protection increases when the number of genes present increases. Entries are designated as “R” resistant (one or more genes present), “S” susceptible (no genes present), or “-” (data not supplied by the entrant).

Phytophthora: The specific resistance of entries to phytophthora root rot caused by races 1, 3, and 4 of *Phytophthora megasperma* var. *glycinea* was supplied by the entrant. Entries with a major gene for resistance to races 3 and/or 4 of *Phytophthora* should have adequate protection for most Iowa soils. Entries were designated in Table 15 as “R” = all plants resistant, “S” = all plants susceptible, “M” = mixture of resistant and susceptible plants, and “-” = data not supplied by the entrant.

Hilum, Flower, and Pubescence

Colors: Descriptive data were supplied by the entrants. Hilum color: BL = black, BR = brown, BF = buff, IB = imperfect black, Y = yellow, and G = gray. Flower color: W = white and P = purple. Pubescence color: T = tawny, LT = light tawny, G = gray, and M = mixture of two or more colors for a character.

Seed Type and Availability:

Genetic composition of the entries was provided by the entrant. In 2005, all entries were pure lines. Experimental lines are those with an “X” in the variety name, and may or may not be offered for sale to farmers in Iowa for planting in 2006.

Interpretation of Results

Care should be used in comparing entries that occur in different tables of this report. Growing conditions were not identical for each test; therefore, yield of an entry will

vary among tests. Information from individual locations will highlight how variable yields can be in different environments.

Even though two entries have similar genetic potential for yield and other characters, their performance may differ because of variation in fertility and other environmental conditions among plots at the test sites. This test is conducted as an experiment, not a contest. The amount of error in the test is estimated by the LSD (Least Significant Difference) values provided at the bottom of each table. If the difference between two entries is greater than the LSD value, it is reasonably certain that the entries differ in their genetic potential for the character. Likewise, if the difference between two entries is less than the LSD value, it can be assumed that no difference may exist between the two entries.

Variety Selection

The primary consideration in selecting a variety or brand for planting is harvestable yield. The average performance of an entry over two or more years should be considered when data are available.

The lodging characteristic of a variety should influence the plant population used. Varieties susceptible to lodging should be planted at lower seeding rates than resistant types. The seeding rate for any variety should be low enough to avoid serious lodging.

All soybean varieties and brands should emerge well when planted less than two inches deep and soil crusting is not a problem. If varieties with poor emergence characteristics are grown, plant stands may be seriously reduced when seed is planted more than two inches deep or when soil crusting occurs before emergence.

Phytophthora root rot is caused by a soilborne fungus that may attack the plant at any stage of development. Varieties will not have yield reduction when they have specific resistance for a race that is present, but they may suffer damage if races are present in the soil for which they do not have specific resistance. For varieties that do not have specific resistance, those with a high level of field tolerance will have less yield reduction than varieties with a low level of field tolerance. In areas where Phytophthora is known to be a problem, varieties with high yield and specific resistance to races 3 and/or 4 should be considered.

Soybean cyst nematodes are microscopic worms that attack soybean roots. Susceptible varieties grown on infested soil may be stunted and show yellowing of leaf tissue. The current recommendation for managing SCN is to rotate nonhost crops with soybean varieties that derive their resistance from different PI sources. This will become increasingly harder to do, however, as plant breeders combine these genes from different sources into single

varieties to obtain broad-based resistance, as is already evidenced by many entries in the 2005 trials. Information for identification and control of soybean cyst nematodes is available in Iowa State University Extension publication PM 1649, *Soybean cyst nematode-resistant soybean varieties for Iowa*.

Brown stem rot is caused by the fungus *Phialophora gregata* that survives in crop residue. This fungus becomes most active when cool weather during pod fill is followed by hot, dry weather. Plant symptoms may appear as necrotic areas on the leaves or as dark, reddish brown discoloration of the pith area in the stem. Control measures include crop rotation and planting resistant varieties.

The protein and oil percentages determine the amount of protein and oil that can be obtained from a given weight of soybeans. For crushing purposes, the simplest measure of total value is the sum of protein and oil; higher sums mean

more total value. Several processors are now evaluating methods to use composition in their buying practices. The sum statistic and the LSD statistic can be used together to identify varieties of similar yield potential and higher composition.

Use of the Data in Advertisements

Specific advertisement statements by an individual company about the performance of its entries must accurately reflect the published data.

For More Information

For more information, see <http://extension.agron.iastate.edu/varietytesting/>.

For questions or comments about the *2005 Iowa Crop Performance Test—Soybeans*, contact:

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And justice for all . . .

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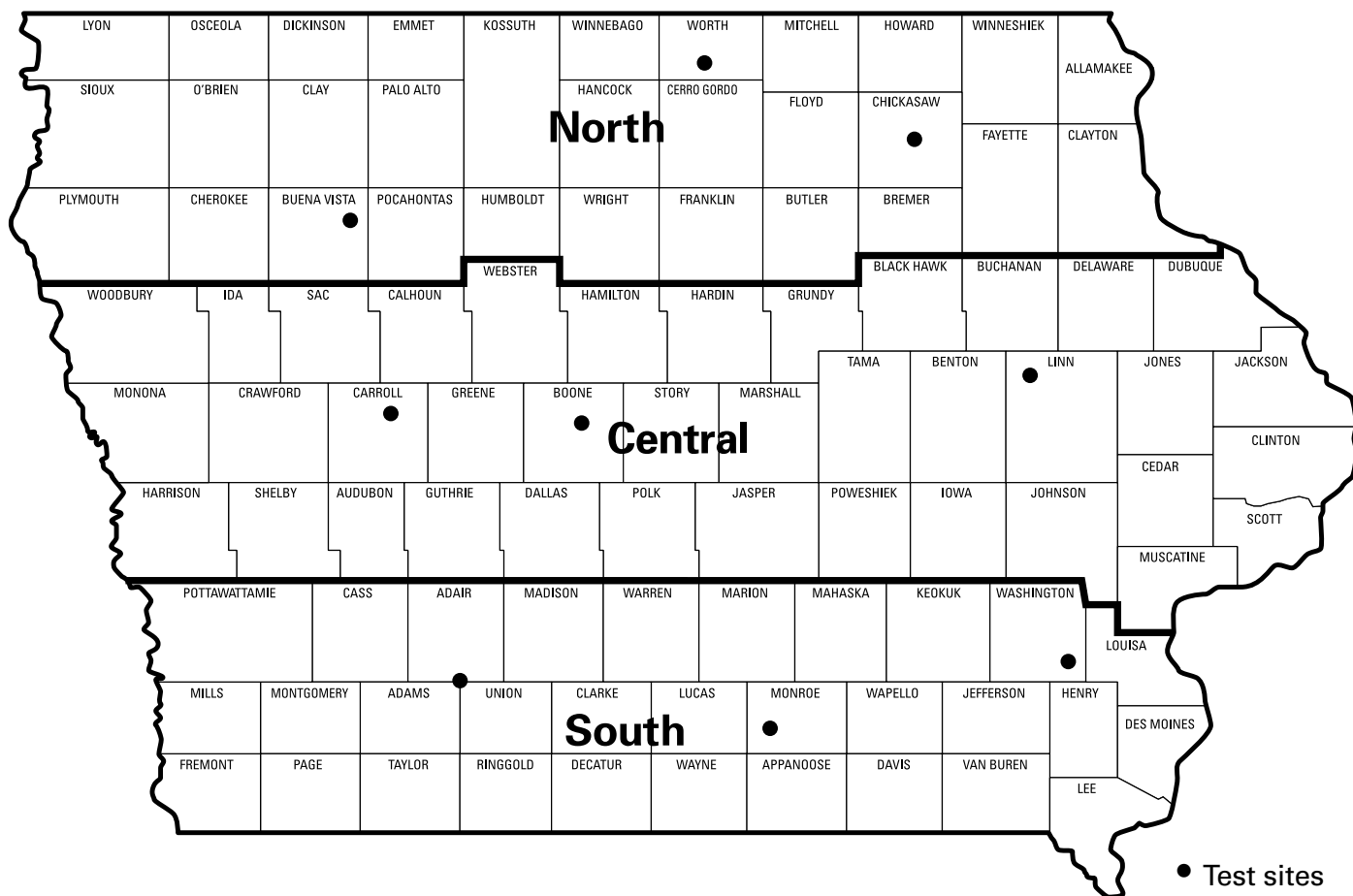


Figure 1. Test locations for the 2005 Iowa Crop Performance Test—Soybeans.

Table 1. General information for the 2005 soybean test.

Location and Cooperator	Soil Type	Planting Date	Harvest Date	Average Yield (Bu/Acre)
Northern District				
Albert City, Roger Bjork	Webster silty clay loam	20 May	7 October	51.6
Manly, Lutz Farms	Floyd loam	24 May	10 October	53.5
New Hampton, Jim Eckenrod	Kenyon loam	17 May	4 October	61.0
Central District				
Lidderdale, Kroeger Brothers	Nicollet loam	23 May	8 October	58.2
Boone, David Hein	Webster silty clay loam	9 May	3 October	59.0
Walker, Duane Kuhn	Kenyon loam	17 May	9 October	58.2
Southern District				
Orient, Jeff Tussey	Macksburg silty clay loam	10 May	1 October	56.2
Melrose, Mike Ryan	Haig silty clay loam	10 May	11 October	-
Crawfordsville, Kevin VanDee	Mahaska silty clay loam	11 May	5 October	64.0

Table 2. Northern Iowa conventional herbicide soybean test, 2004–2005 means.

Brand	Entry	Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Height (in)	Lodging Score	Protein (%)	Oil (%)
FS HiSOY	HS 2431	48.9	96	26	37	1.9	36.1	18.3
Iowa State	IA1008	48.8	96	23	37	1.6	36.4	18.0
Iowa State	IA2064	46.6	91	25	36	1.8	36.4	18.8
Iowa State	IA2065	52.0	102	25	35	1.6	34.6	20.0
Iowa State	IA2068	49.1	96	24	35	1.7	34.8	18.2
Kruger	K-2320SCN	50.3	99	24	37	1.9	36.1	18.3
Latham	L1840	52.8	104	20	35	1.6	36.4	18.1
NuTech	NT-180	52.9	104	19	34	1.4	36.2	18.4
NuTech	NT-201	56.2	110	20	34	1.5	35.5	18.2
NuTech	NT-232 SCN	49.6	97	25	37	1.8	36.4	18.1
NuTech	NT-242 SCN	52.0	102	25	37	1.9	36.1	18.3
Viking	2199	52.6	103	20	35	1.5	37.3	17.7
Experiment Mean		51.0	-	23	36	1.7	36.0	18.4
Minimum Mean		46.6	-	19	34	1.4	34.6	17.7
Maximum Mean		56.2	-	26	37	1.9	37.3	20.0
LSD (0.05)*		5.0	-	3.7	1.2	0.3	0.6	0.2
Coefficient of Variability		6.4	-					

*P > F = 0.04

Table 3. Northern Iowa Roundup Ready[®] soybean test, 2004–2005 means.

Brand	Entry	Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Height (in)	Lodging Score	Protein (%)	Oil (%)
Dairyland	DSR-199/RR	50.0	97	22	33	1.4	36.9	18.2
Dairyland	DSR-234/RR	52.2	101	24	33	1.4	36.4	18.6
Dairyland	DSR-2500/RR	52.0	100	25	35	1.6	35.7	18.6
DEKALB	DKB26-52*	50.3	97	26	37	1.9	36.8	18.1
Excel	8192RR	51.7	100	23	34	1.4	36.3	17.8
Excel	8210RR	51.1	99	24	35	1.5	36.2	18.3
Excel	8236NRR	53.0	103	23	33	1.4	36.3	18.6
Excel	8253RR	51.9	100	27	34	1.5	35.5	18.8
Four Star	2261RR	49.7	96	25	36	1.9	35.9	18.6
Four Star	3242RR	51.4	99	19	32	1.3	34.0	19.2
FS HiSOY	HS 2025	50.0	97	18	32	1.3	34.1	19.2
FS HiSOY	HS 2225	50.6	98	21	31	1.3	33.9	19.2
FS HiSOY	HS 2345	49.2	95	23	32	1.4	36.1	18.7
High Cycle by Trelay	2223RR	53.6	104	21	32	1.3	34.2	19.1
Kruger	K-195+RR/SCN	51.7	100	18	33	1.3	34.2	19.7
Kruger	K-200RR	50.3	97	17	34	1.6	35.0	18.7
Kruger	K-211+RR	50.8	98	20	31	1.3	33.9	19.4
Kruger	K-223+RR	55.6	108	19	31	1.2	34.2	19.2
Kruger	K-233+RR	52.1	101	24	33	1.5	36.4	18.5
Kruger	K-270RR	49.1	95	26	37	1.8	35.1	19.2
Kruger	K-277+RR/SCN	51.2	99	26	34	1.6	37.4	18.1
KSC/Challenger	K-192RR	50.4	97	18	31	1.4	34.1	19.3
Latham	497RR	52.4	101	21	32	1.3	34.5	19.1
Latham	L2045R	54.1	104	23	36	1.7	36.6	18.2
NuTech	NT-2002 RR	53.7	104	20	30	1.4	34.4	19.0
Renk	RS204NRR	50.3	97	17	33	1.3	34.2	19.6
Renk	RS223RR	52.1	101	19	31	1.3	34.2	19.3
Renk	RS234RR	51.7	100	20	31	1.4	34.3	19.1
Renk	RS253RR	52.3	101	24	35	1.5	36.0	18.8
Stine	S1918-4	50.4	97	20	32	1.4	34.5	19.2
Stine	S2032-4	53.2	103	19	33	1.3	34.3	19.6
Stine	S2116-4	51.3	99	19	31	1.4	34.3	19.3
Tech Brand	T-2727 RR/SCN	54.3	105	27	33	1.7	37.6	18.0
Thompson Seeds	T-7193+ RRSCN	54.2	105	18	33	1.3	34.6	19.6
Thompson Seeds	T-7205+ RR	53.0	102	19	31	1.3	34.7	19.0
Viking	1908CNRR	51.5	100	19	33	1.2	34.4	19.5
Experiment Mean		51.7	-	22	33	1.4	35.2	18.9
Minimum Mean		49.1	-	17	30	1.2	33.9	17.8
Maximum Mean		55.6	-	27	37	1.9	37.6	19.7
LSD (0.05)		3.8	-	3.1	1.5	0.3	0.5	0.3
Coefficient of Variability		9.0	-					

*Widely grown check variety entered by Iowa State University

Table 4. Central Iowa conventional herbicide soybean test, 2004–2005 means.

Brand	Entry	Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Height (in)	Lodging Score	Protein (%)	Oil (%)
FS HiSOY	HS 2861	55.0	99	25	34	1.1	35.6	19.0
FS HiSOY	HS 2911	56.8	103	27	36	1.5	36.6	18.4
Iowa State	IA2064	52.5	95	19	36	1.7	36.6	19.3
Iowa State	IA2065	54.1	98	19	33	1.4	34.5	20.6
Iowa State	IA2068	54.1	98	17	34	1.7	33.5	19.1
Iowa State	IA3017	54.1	98	25	36	1.3	36.2	18.5
Kruger	K-2320SCN	55.5	100	20	37	1.7	35.0	19.2
Kruger	K-2918SCN	58.7	106	26	37	1.5	36.3	18.6
Latham	L2980	56.0	101	26	37	1.4	36.8	18.3
NuTech	NT-282 SCN	56.4	102	27	36	1.5	36.6	18.5
Experiment Mean		55.3	-	23	36	1.5	35.8	18.9
Minimum Mean		52.5	-	17	33	1.1	33.5	18.3
Maximum Mean		58.7	-	27	37	1.7	36.8	20.6
LSD (0.05)		NS^a	-	2.0	1.4	0.3	0.5	0.3
Coefficient of Variability		7.0	-					

^aThe F-value for entries was not significant at the 0.05 level (no differences due to entries are detectable in this experiment); an LSD is rendered meaningless.

Table 5. Central Iowa Roundup Ready[®] soybean test, 2004–2005 means.

Brand	Entry	Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Height (in)	Lodging Score	Protein (%)	Oil (%)
Asgrow	AG2703*	56.0	96	22	37	1.2	34.5	19.3
Dairyland	DSR-234/RR	58.0	100	18	33	1.2	35.8	18.9
Dairyland	DSR-2600/RR	58.9	101	23	35	1.3	34.7	18.8
DEKALB	DKB26-52*	54.4	93	21	38	1.7	35.6	18.7
Dyna-Gro	31N27	58.0	100	25	36	1.2	34.3	19.4
Dyna-Gro	37K32	58.6	101	27	41	1.6	33.7	19.3
Dyna-Gro	38K28	54.8	94	22	39	1.7	34.3	19.5
Excel	8226RR	57.0	98	19	35	1.2	35.9	18.8
Excel	8236NRR	59.1	101	19	34	1.2	36.0	18.9
Four Star	2261RR	56.8	98	20	37	1.4	35.3	19.0
Four Star	2281RR	57.7	99	22	38	1.5	34.6	19.1
Four Star	2314RR	54.6	94	29	40	1.6	36.6	18.0
FS HiSOY	HS 2645	58.5	100	20	38	1.4	35.3	18.9
FS HiSOY	HS 3135	61.1	105	26	40	1.5	34.1	19.2
FS HiSOY	HS 3236	57.8	99	28	37	1.3	35.9	19.3
Kruger	K-270RR	55.5	95	22	38	1.6	34.3	19.6
Kruger	K-273RR	58.7	101	19	38	1.5	35.0	19.1
Kruger	K-277+RR/SCN	57.7	99	22	34	1.3	37.0	18.6
Kruger	K-287RR/SCN	60.4	104	23	39	1.5	34.6	19.0
Kruger	K-289+RR	58.1	100	25	36	1.2	34.3	19.4
Latham	L2635R	58.4	100	20	38	1.4	35.2	19.1
Latham	L2646R	58.8	101	22	35	1.3	34.3	19.1
Latham	L3157R	60.6	104	26	40	1.6	33.9	19.3
NuTech	NT-2890+ RR	59.5	102	25	37	1.3	34.5	19.3
Renk	RS253RR	62.2	107	20	36	1.2	35.6	19.0
Renk	RS272RR	59.3	102	23	35	1.2	35.3	19.5
Renze	R2645RR	59.3	102	21	37	1.4	35.1	19.0
Renze	R2724RR	59.8	103	25	37	1.3	34.5	19.3
Renze	R3115RR	59.3	102	27	39	1.5	34.1	19.3
Thompson Seeds	T-3101 RR	58.1	100	27	40	1.6	34.1	19.2
Experiment Mean		58.2	-	22.8	37.2	1.4	34.9	19.1
Minimum Mean		54.4	-	18	32.7	1.2	33.7	18.0
Maximum Mean		62.2	-	29	40.7	1.7	37	19.6
LSD (0.05)		3.6	-	3.3	1.6	0.2	0.4	0.2
Coefficient of Variability		7.9	-					

*Widely grown check variety entered by Iowa State University

Table 6. Southern Iowa conventional herbicide soybean test, 2004–2005 means.

Brand	Entry	Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Height (in)	Lodging Score	Protein (%)	Oil (%)
FS HiSOY	HS 3591	55.2	96	24	39	2.1	37.5	18.1
FS HiSOY	HS 3892	53.5	93	26	42	1.5	36.2	18.6
Iowa State	IA3017	56.4	98	21	35	1.5	36.4	18.2
Iowa State	IA3018	59.8	104	22	37	2.3	34.6	19.7
Iowa State	IA3019	59.0	103	22	35	1.9	34.9	19.6
Iowa State	IA3023	60.7	106	23	36	1.8	34.1	19.4
Kruger	K-2918SCN	58.6	102	21	36	1.6	36.6	18.4
Kruger	K-3777SCN	54.9	96	26	43	1.4	36.2	18.5
Experiment Mean		57.3	-	23	38	1.8	35.8	18.8
Minimum Mean		53.5	-	21	35	1.4	34.1	18.1
Maximum Mean		60.7	-	26	43	2.3	37.5	19.7
LSD (0.05)		3.0	-	2.1	1.5	0.4	0.5	0.2
Coefficient of Variability		5.6	-					

Table 7. Southern Iowa Roundup Ready[®] soybean test, 2004–2005 means.

Brand	Entry	Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Height (in)	Lodging Score	Protein (%)	Oil (%)
Asgrow	AG3302*	57.5	99	22	37	2.0	36.6	18.6
Dyna-Gro	31T31	57.9	99	20	35	1.5	36.2	19.3
Dyna-Gro	32C38	58.2	100	25	36	1.7	34.9	18.8
Dyna-Gro	33A37	56.6	97	25	37	2.1	37.1	18.1
Dyna-Gro	35D33	58.7	100	21	38	1.7	35.7	18.6
Dyna-Gro	37K32	58.3	100	23	36	1.8	35.4	19.1
Four Star	2314RR	58.3	100	21	38	1.8	37.2	17.8
FS HiSOY	HS 3236	55.7	95	20	35	1.5	36.4	19.3
Kruger	K-328RR	59.0	101	21	37	1.8	34.8	19.1
Kruger	K-355RR/SCN	60.8	104	24	35	1.5	35.7	19.2
Kruger	K-389RR/SCN	57.6	99	26	35	1.6	34.5	18.9
KSC/Challenger	K-349RR	57.0	98	22	35	1.6	36.2	19.3
Renze	R3115RR	60.4	103	21	38	1.9	34.8	19.2
Stine	3532-4	59.4	102	24	35	1.6	36.0	19.0
Stine	3600-4	59.2	101	26	37	1.5	34.2	19.4
Stine	3832-4	57.3	98	28	36	1.9	35.2	19.3
Thompson Seeds	T-3101 RR	60.3	103	21	37	1.8	34.7	19.2
Thompson Seeds	T-3101+ RR	60.8	104	21	37	1.9	35.0	19.1
Thompson Seeds	T-3303 RR	58.1	99	21	35	1.6	36.4	19.3
Thompson Seeds	T-3737 RR/SCN	56.8	97	26	36	2.1	37.3	18.1
Thompson Seeds	T-3777+ RR	58.7	100	25	37	1.4	34.4	19.2
Experiment Mean		58.4	-	23	36	1.7	35.7	18.9
Minimum Mean		55.7	-	20	35	1.4	34.2	17.8
Maximum Mean		60.8	-	28	38	2.1	37.3	19.4
LSD (0.05)		NS^a	-	4	1	0.4	0.6	0.4
Coefficient of Variability		5.8	-					

*Widely grown check variety entered by Iowa State University

^aThe F-value for entries was not significant at the 0.05 level (no differences due to entries are detectable in this experiment); an LSD is rendered meaningless.

Table 8. Northern Iowa conventional herbicide soybean test, 2005 district and single-location means.

Brand	Entry	District Means							Manly			New Hampton		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	
FS HISOY	HS 2431	53.4	93	32	0.9	35.1	18.8	55.8	102	51.2	86			
Iowa State	IA1008	59.1	103	31	1.1	35.0	18.6	58.9	107	59.5	100			
Iowa State	IA1017	52.7	92	29	1.0	36.8	18.3	48.2	88	56.8	95			
Iowa State	IA1018	58.3	102	27	1.0	38.1	17.9	54.4	99	62.1	104			
Iowa State	IA2046	51.9	91	29	1.0	37.3	17.7	45.3	82	58.8	99			
Iowa State	IA2053	54.6	95	30	1.1	38.8	17.3	51.1	93	60.3	101			
Iowa State	IA2064	51.9	91	32	1.1	35.5	19.4	49.7	90	53.9	90			
Iowa State	IA2065	61.1	107	31	1.0	34.0	20.5	52.8	96	68.9	115			
Iowa State	IA2068	52.5	92	31	1.1	33.8	18.6	44.9	82	61.8	104			
Iowa State	IA2069	55.2	96	27	0.9	35.3	18.3	51.2	93	59.5	100			
Iowa State	IA2070	56.3	98	30	1.0	36.5	17.7	55.1	100	55.9	94			
Iowa State	IA2071	54.2	95	28	1.0	34.9	18.2	52.7	96	56.5	95			
Iowa State	IA2072	49.9	87	28	1.0	34.7	18.4	46.6	85	54.2	91			
Iowa State	IA2073	55.4	97	27	1.1	34.7	18.3	50.4	92	59.6	100			
IPAP	IP2502	55.8	97	30	1.3	34.4	18.7	48.5	88	62.0	104			
IPAP	IP2702	56.0	98	32	1.0	36.3	18.0	51.6	94	60.5	101			
IPAP	IP2902N	51.5	90	37	1.5	36.8	17.9	48.2	88	55.5	93			
Kruger	K-1999	59.1	103	27	1.1	34.4	18.7	55.4	101	62.5	105			
Kruger	K-2320SCN	56.3	98	31	1.1	35.2	18.9	56.7	103	55.7	93			
Kruger	K-2552	59.5	104	35	1.3	34.0	18.8	59.0	107	60.6	102			
Latham	E1930	58.3	102	28	1.0	35.2	19.0	54.4	99	61.6	103			
Latham	E2400	62.7	109	31	1.1	35.8	19.5	61.9	113	61.8	104			
Latham	L1763	60.1	105	25	1.0	34.4	18.7	58.0	106	61.9	104			
Latham	L1840	59.9	105	28	1.1	35.9	18.4	60.5	110	60.2	101			
NuTech	NT-180	65.0	113	27	0.9	36.0	18.7	62.0	113	67.7	113			
NuTech	NT-193 SCN	49.3	86	29	1.5	37.2	18.5	51.7	94	47.7	80			
NuTech	NT-201	65.9	115	26	1.0	34.4	18.6	62.4	113	69.7	117			
NuTech	NT-211	62.0	108	27	1.4	35.6	18.3	60.4	110	63.8	107			
NuTech	NT-232 SCN	55.0	96	32	1.0	35.4	18.7	58.8	107	52.2	88			
NuTech	NT-242 SCN	61.1	107	31	1.1	35.2	18.8	61.8	112	62.1	104			
NuTech	NT-262	60.2	105	33	1.1	35.8	19.8	58.5	106	62.9	106			
Viking	2199	59.9	105	26	1.0	36.2	18.1	57.9	105	60.9	102			
Viking	2265	63.3	110	31	1.0	35.0	18.6	64.1	117	62.5	105			
Viking	2181CN	58.9	103	27	1.0	35.7	18.9	60.0	109	57.4	96			
Experiment Mean		57.3	-	29	1.1	35.6	18.6	54.9	-	59.7	-			
Minimum Mean		49.3	-	25	0.9	33.8	17.3	44.9	-	47.7	-			
Maximum Mean		65.9	-	37	1.5	38.8	20.5	64.1	-	69.7	-			
LSD (0.05)		7.8	-	4				6.9	-	7.6	-			
Coefficient of Variability		7.5	-					7.6	-	7.8	-			

Table 9. Northern Iowa Roundup Ready® soybean test, 2005 district and single-location means.

Brand	Entry	District Means							Albert City			Manly			New Hampton		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)		
Asgrow	AG1903	53.5	97	29	1.0	34.6	18.8	54.3	105	47.8	92	58.3	94				
Asgrow	AG2403	55.5	101	28	1.0	34.5	19.6	47.7	92	52.6	101	65.1	105				
Dairyland	DSR-1900/RR	51.5	93	28	1.0	35.9	18.4	45.6	88	49.3	95	60.7	97				
Dairyland	DSR-199/RRSTS	51.5	93	27	1.0	36.0	18.8	48.2	93	47.0	90	58.6	94				
Dairyland	DSR-234/RR	55.9	101	30	1.0	35.7	19.0	58.1	113	51.2	98	59.3	95				
Dairyland	DSR-2500/RR	53.9	98	30	1.0	35.4	19.1	50.7	98	52.4	101	59.4	95				
Dairyland	DSR-2600/RR	57.3	104	31	1.0	34.5	19.1	52.7	102	55.4	106	64.7	104				
DEKALB	DKB22-52	54.4	99	28	1.0	33.8	19.7	49.5	96	50.1	96	64.9	104				
DEKALB	DKB25-51	54.1	98	28	1.0	33.3	19.9	49.6	96	49.2	94	63.5	102				
DEKALB	DKB26-52*	58.7	106	33	1.1	35.7	18.7	59.5	115	56.4	108	62.7	101				
Excel	8192RR	53.5	97	29	1.0	35.5	18.5	49.3	96	51.3	98	60.9	98				
Excel	8210RR	53.7	97	30	1.0	35.7	18.8	50.6	98	52.9	102	57.5	92				
Excel	8213RR/STS	53.7	97	29	1.1	34.5	19.4	51.0	99	50.4	97	59.6	96				
Excel	8214RR	52.8	96	28	1.0	36.6	18.7	48.3	94	50.2	96	59.5	96				
Excel	8236NRR	56.1	102	29	1.0	35.5	19.1	54.2	105	50.7	97	63.5	102				
Excel	8238RR	58.8	107	30	1.0	35.5	19.2	51.5	100	57.3	110	67.9	109				
Excel	8239RR	52.7	95	27	1.0	34.9	19.0	50.4	98	48.9	94	58.0	93				
Excel	8244RR	55.0	100	30	1.0	34.2	19.5	47.7	92	54.0	104	63.8	103				
Excel	8253RR	53.7	97	33	1.0	35.2	19.3	48.8	95	53.7	103	59.3	95				
Farm Advantage	7205	54.3	98	31	1.0	35.2	19.1	48.9	95	51.7	99	61.8	99				
Farm Advantage	7253	55.0	100	26	1.0	34.4	19.3	49.4	96	53.2	102	61.5	99				
Four Star	2261RR	51.6	94	30	1.0	34.9	19.2	44.2	86	49.3	95	60.6	97				
Four Star	3242RR	52.4	95	25	1.0	33.4	19.8	46.1	89	50.8	98	58.5	94				
FS HISDY	HS 2025	52.8	96	25	1.0	33.9	19.6	49.4	96	49.9	96	60.2	97				
FS HISDY	HS 2225	50.6	92	28	1.0	33.5	19.6	46.3	90	48.5	93	56.4	91				
FS HISDY	HS 2345	51.8	94	30	1.0	35.3	19.3	47.4	92	48.1	92	59.4	95				
FS HISDY	X05-25	55.4	100	31	1.0	35.7	19.2	49.4	96	53.2	102	63.6	102				
High Cycle by Treloy	2213RR	51.2	93	27	1.0	35.7	19.0	45.0	87	46.3	89	61.6	99				
High Cycle by Treloy	2223RR	54.6	99	27	1.0	33.8	19.6	49.6	96	50.1	96	65.9	106				
High Cycle by Treloy	2224RR	59.0	107	29	1.0	35.6	19.1	55.6	108	59.2	114	61.3	98				
High Cycle by Treloy	2245RR	58.1	105	30	1.0	35.3	19.0	58.5	113	56.6	109	59.0	95				
Kruger	K-191RR	49.4	90	28	1.0	34.3	19.2	41.5	81	49.1	94	59.2	95				
Kruger	K-195+RR/SCN	57.5	104	25	1.0	33.7	20.1	55.5	108	52.7	101	64.0	103				
Kruger	K-200RR	51.4	93	24	1.0	34.4	19.3	48.2	93	49.5	95	57.7	93				
Kruger	K-211+RR	51.6	94	27	1.0	33.5	20.0	50.8	99	48.9	94	57.6	93				
Kruger	K-212RR	54.0	98	28	1.0	35.5	18.6	50.6	98	51.0	98	60.8	98				
Kruger	K-223+RR	55.0	100	25	1.0	33.8	19.7	53.6	104	50.1	96	63.1	101				
Kruger	K-233+RR	54.1	98	30	1.0	35.4	19.2	54.2	105	48.9	94	61.1	98				
Kruger	K-255RR	53.4	97	30	1.0	35.6	19.1	46.7	91	48.0	92	65.4	105				
Kruger	K-270RR	50.8	92	31	1.0	34.4	19.7	46.7	91	48.0	92	57.8	93				
Kruger	K-273RR	52.4	95	29	1.0	35.4	19.1	44.5	86	46.5	89	65.3	105				
Kruger	K-277+RR/SCN	55.1	100	28	1.0	36.3	18.8	57.3	111	49.1	94	60.6	97				
KSC/Challenger	K-180RR	49.2	89	25	1.0	35.5	19.5	46.5	90	47.4	91	55.1	88				
KSC/Challenger	K-188RR/SCN	55.6	101	24	1.0	33.3	20.2	57.7	112	49.9	96	59.1	95				
KSC/Challenger	K-192RR	55.1	100	23	1.0	33.9	19.7	51.7	100	50.4	97	61.9	100				

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Table 9. Northern Iowa Roundup Ready® soybean test, 2005 district and single-location means, continued.

Brand	Entry	District Means							Albert City			Manly			New Hampton		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)		
KSC/Challenger	K-213RR/SCN	58.2	105	29	1.0	36.0	18.8	54.7	106	58.0	111	62.9	101				
KSC/Challenger	K-225RR	54.0	98	28	1.0	35.6	18.9	50.3	98	52.6	101	59.5	96				
KSC/Challenger	K-235RR/SCN	60.2	109	30	1.0	34.9	19.5	58.3	113	57.5	110	65.2	105				
KSC/Challenger	K-237RR	53.4	97	28	1.0	35.6	18.9	50.1	97	50.4	97	61.2	98				
KSC/Challenger	K-238RR	56.5	102	26	1.0	34.6	19.1	51.7	100	54.0	104	63.4	102				
KSC/Challenger	K-260RR	57.2	104	33	1.0	36.6	18.6	50.4	98	53.8	103	68.3	110				
KSC/Challenger	K-266RR/SCN	56.6	103	30	1.0	35.7	19.4	53.6	104	52.5	101	63.6	102				
Latham	497RR	53.9	98	29	1.0	33.9	19.4	49.0	95	51.2	98	62.0	100				
Latham	L1935R	54.2	98	27	1.0	35.8	18.5	51.7	100	48.4	93	63.5	102				
Latham	L2045R	55.6	101	28	1.0	35.8	18.7	54.4	106	52.8	101	61.2	98				
Latham	L2336R	54.1	98	29	1.0	35.5	19.2	56.5	110	49.7	95	58.9	95				
Latham	L2450R	52.5	95	29	1.0	34.9	18.7	49.7	96	48.8	94	59.9	96				
Merschman	Mars 618RR	52.4	95	25	1.0	33.9	19.7	47.2	91	51.5	99	59.4	95				
Merschman	Mohegan 624RR	59.0	107	29	1.0	35.3	19.1	58.1	113	58.2	112	61.3	99				
Merschman	Munsee IVRR	54.0	98	29	1.0	33.5	19.8	46.5	90	53.7	103	62.6	101				
NuTech	NT-2002 RR	56.0	102	26	1.0	34.1	19.6	48.5	94	53.9	103	65.2	105				
NuTech	NT-2120 RR	52.0	94	26	1.0	35.8	18.7	48.0	93	50.2	96	57.8	93				
NuTech	NT-2202a RR	48.3	88	28	1.0	32.8	20.2	46.6	90	44.4	85	52.9	85				
NuTech	NT-2222+ RR/SCN	58.1	105	27	1.0	34.2	19.8	55.1	107	53.9	103	64.5	104				
NuTech	NT-2324+ RR/SCN	59.3	108	29	1.0	34.9	19.6	55.3	107	61.6	118	61.4	99				
NuTech	NT-2330 RR	53.8	98	27	1.0	34.8	19.7	51.3	99	43.4	83	66.7	107				
NuTech	NT-2333+ RR	55.8	101	27	1.0	34.4	19.2	46.1	89	54.0	104	66.5	107				
NuTech	NT-2424 RR/SCN	61.9	112	29	1.0	35.7	18.9	59.7	116	57.1	110	69.3	111				
NuTech	NT-2440 RR	57.3	104	31	1.0	35.6	19.1	54.0	105	53.1	102	66.7	107				
NuTech	NT-2626+ RR	57.6	104	30	1.0	35.7	19.1	47.0	91	62.9	121	62.9	101				
Prairie Brand	PB-1954RR	55.5	101	27	1.0	34.4	19.4	53.3	103	52.3	100	60.9	98				
Prairie Brand	PB-2141RR	56.4	102	28	1.0	34.1	19.3	52.6	102	52.1	100	65.0	104				
Prairie Brand	PB-2183NRR	56.2	102	26	1.0	33.8	20.1	59.0	114	52.6	101	60.3	97				
Prairie Brand	PB-2205RR	57.0	103	27	1.0	35.8	18.7	50.7	98	55.3	106	64.6	104				
Prairie Brand	PB-2243RR	55.2	100	26	1.0	33.7	19.6	47.2	92	54.7	105	64.2	103				
Prairie Brand	PB-2265RR	54.9	100	28	1.0	35.7	18.8	55.1	107	49.3	95	61.1	98				
Prairie Brand	PB-2345RR	56.1	102	27	1.1	34.6	19.1	49.9	97	49.3	95	68.2	110				
Prairie Brand	PB-2385NRR	59.5	108	29	1.0	35.3	19.2	59.4	115	55.7	107	63.3	102				
Prairie Brand	PB-2443RR	56.3	102	30	1.0	35.6	19.1	54.3	105	52.4	101	64.2	103				
Prairie Brand	PB-2565RR	51.5	93	31	1.0	35.1	19.2	46.0	89	48.0	92	60.9	98				
Renk	RS185RR	54.1	98	27	1.0	33.8	19.6	47.4	92	50.8	98	64.8	104				
Renk	RS204NRR	53.5	97	24	1.0	33.9	20.0	56.4	109	47.6	91	57.1	92				
Renk	RS223RR	55.4	100	27	1.0	33.5	19.7	48.0	93	53.5	103	63.3	102				
Renk	RS234RR	55.6	101	27	1.0	33.7	19.8	51.6	100	51.5	99	64.9	104				
Renk	RS253RR	54.7	99	29	1.0	35.4	19.3	46.8	91	52.4	101	66.1	106				
Renk	RS265RR	56.9	103	31	1.0	35.1	19.1	51.4	100	53.9	103	64.1	103				
Renze	R2306RR	55.5	101	25	1.0	34.7	18.9	51.2	99	49.8	96	65.7	106				
Renze	R2314RR	56.4	102	29	1.0	35.6	19.1	54.5	106	54.9	105	60.9	98				
Renze	R2446RR	56.6	103	28	1.0	35.6	19.1	53.3	103	51.1	98	65.8	106				
Renze	R2496RRcn	56.7	103	30	1.0	34.8	19.3	58.4	113	52.5	101	59.8	96				

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Table 9. Northern Iowa Roundup Ready® soybean test, 2005 district and single-location means, continued.

Brand	Entry	District Means										Albert City			Manly			New Hampton		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)			
Renze	R2626RR	57.6	104	32	1.0	34.1	19.3	52.2	101	55.5	106	66.8	107							
Stine	1918-4	54.8	99	28	1.0	34.0	19.7	46.3	90	54.7	105	64.5	104							
Stine	2032-4	58.8	107	27	1.0	34.1	20.0	60.2	117	57.3	110	59.7	96							
Stine	2116-4	53.4	97	25	1.0	34.1	19.6	47.3	92	50.9	98	63.2	102							
Stine	2402-4	59.3	107	28	1.0	35.1	19.2	61.6	119	54.8	105	60.1	97							
Tech Brand	T-2222 RR/SCN	59.6	108	25	1.0	34.3	19.9	60.1	117	55.0	106	65.4	105							
Tech Brand	T-2303 RR	53.5	97	27	1.0	35.8	19.1	53.2	103	52.2	100	57.0	92							
Tech Brand	T-2324 RR/SCN	60.7	110	29	1.0	34.9	19.5	61.5	119	59.0	113	63.3	102							
Tech Brand	T-2333 RR	56.3	102	27	1.1	34.3	19.2	52.7	102	52.1	100	64.8	104							
Tech Brand	T-2626 RR	53.5	97	30	1.0	35.6	19.1	44.8	87	50.6	97	64.3	103							
Tech Brand	T-2707 RR	55.8	101	31	1.0	35.5	19.1	46.3	90	56.8	109	64.8	104							
Tech Brand	T-2727 RR/SCN	58.6	106	31	1.0	36.7	18.7	59.9	116	53.0	102	64.3	103							
Tech Brand	T-7205A RR	55.0	100	28	1.0	33.9	19.4	53.2	103	51.7	99	59.7	96							
Tech Brand	T-7206 RR	54.4	99	27	1.0	34.0	19.5	44.2	86	54.9	105	66.0	106							
Thompson Seeds	T-1828 RR/SCN	57.2	104	22	1.0	33.4	20.2	58.2	113	53.5	103	59.5	96							
Thompson Seeds	T-1888 RR/SCN	49.5	90	22	1.0	35.7	19.3	48.9	95	46.9	90	54.8	88							
Thompson Seeds	T-2102 RR	59.4	108	30	1.0	36.1	19.2	51.9	101	64.6	124	61.6	99							
Thompson Seeds	T-2103 RR	53.0	96	27	1.0	36.4	18.5	46.0	89	51.4	99	61.4	99							
Thompson Seeds	T-2112 RR/STS	56.6	103	30	1.0	34.8	19.4	51.0	99	53.2	102	64.9	104							
Thompson Seeds	T-2120 RR	55.2	100	27	1.0	36.3	18.7	49.5	96	55.0	106	61.6	99							
Thompson Seeds	T-2122 RR/SCN	55.7	101	28	1.0	34.8	19.6	60.2	117	47.9	92	60.4	97							
Thompson Seeds	T-7193+ RR/SCN	59.8	108	26	1.0	34.1	19.9	59.4	115	57.7	111	63.3	102							
Thompson Seeds	T-7205+ RR	57.9	105	25	1.0	34.4	19.4	49.7	96	55.4	106	68.5	110							
Thompson Seeds	T-7206+ RR	58.8	107	26	1.0	34.1	19.5	50.9	99	53.0	102	72.4	116							
Viking	1908CNRR	54.7	99	27	1.0	34.1	19.9	54.4	106	47.5	91	61.5	99							
Viking	2005RR	56.1	102	27	1.0	34.5	19.4	49.7	96	56.7	109	62.1	100							
Viking	2255RR	54.0	98	25	1.1	34.5	19.1	48.7	94	51.1	98	62.8	101							
Viking	2368CNRR	60.1	109	30	1.0	34.5	19.7	63.0	122	54.4	104	65.3	105							
Experiment Mean		55.2	-	28	1.0	34.9	19.3	51.6	-	52.1	-	62.2	-							
Minimum Mean		48.3	-	22	1.0	32.8	18.4	41.5	-	43.4	-	52.9	-							
Maximum Mean		61.9	-	33	1.1	36.7	20.2	63.0	-	64.6	-	72.4	-							
LSD (0.05)		5.6	-	3				8.5	-	5.7	-	7.0	-							
Coefficient of Variability		6.9	-					10.1	-	6.7	-	6.9	-							

*Widely grown check variety entered by Iowa State University

Table 10. Central Iowa conventional herbicide soybean test, 2005 district and single-location means.

Brand	Entry	District Means										Lidderdale			Boone			Walker		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)			
FS HiSOY	HS 2861	58.8	106	23	1.0	35.6	19.2	59.3	106	55.1	99	61.5	111							
FS HiSOY	HS 2911	59.7	107	27	1.0	36.5	18.7	57.9	103	61.4	111	59.9	108							
Iowa State	IA2064	56.2	101	19	1.4	36.8	19.6	56.8	101	56.6	102	54.1	98							
Iowa State	IA2065	59.9	108	18	1.0	34.9	20.7	59.6	106	63.0	114	57.2	103							
Iowa State	IA2068	56.6	102	18	1.2	33.5	19.6	57.6	103	64.4	116	50.1	90							
Iowa State	IA2069	52.9	95	12	1.0	35.9	19.0	51.1	91	51.1	92	55.4	100							
Iowa State	IA2070	50.0	90	13	1.2	36.7	18.6	56.9	101	43.4	78	50.8	92							
Iowa State	IA2071	52.2	94	12	1.2	34.9	19.2	51.8	92	52.3	94	53.0	96							
Iowa State	IA2072	53.9	97	17	1.0	35.3	19.0	48.4	86	57.0	103	52.6	95							
Iowa State	IA2073	56.0	101	16	1.0	35.2	19.0	54.8	98	56.1	101	55.0	99							
Iowa State	IA3017	56.6	102	25	1.0	36.2	18.7	54.5	97	53.3	96	61.8	112							
Iowa State	IA3018	52.2	94	27	1.5	33.9	20.0	61.3	109	43.7	79	52.6	95							
Iowa State	IA3024	60.5	109	26	1.0	34.4	19.4	64.9	116	62.1	112	55.8	101							
Iowa State	IA3025	55.4	100	26	1.0	35.3	19.1	53.8	96	46.2	83	65.5	118							
IPAP	IP2702	53.6	97	19	1.3	36.1	18.7	49.6	88	54.6	99	55.0	99							
IPAP	IP2902N	56.8	102	25	1.2	36.1	19.0	59.4	106	57.3	103	55.0	99							
IPAP	IP3002	48.9	88	23	1.1	37.9	18.4	50.6	90	46.6	84	50.0	90							
IPAP	KE18	48.0	86	30	1.9	36.1	18.3	51.2	91	41.8	75	53.6	97							
IPAP	KE81	38.5	69	32	1.7	37.3	18.2	47.4	84	27.9	50	42.5	77							
Kruger	K-2320SCN	60.3	109	19	1.1	34.7	19.6	68.1	121	61.8	112	53.1	96							
Kruger	K-2552	60.1	108	25	1.5	33.9	19.3	60.4	108	59.2	107	61.8	112							
Kruger	K-2918SCN	62.2	112	26	1.0	36.1	19.0	59.7	106	65.7	119	60.7	110							
Latham	L2980	58.8	106	26	1.0	36.5	18.7	57.4	102	65.4	118	55.6	101							
NuTech	NT-242 SCN	59.2	107	18	1.2	35.5	19.3	59.3	106	60.6	109	57.7	104							
NuTech	NT-260	53.8	97	20	1.0	35.7	18.9	48.2	86	61.9	112	50.3	91							
NuTech	NT-266 SCN	56.3	101	23	1.0	35.3	19.5	57.7	103	60.9	110	51.1	92							
NuTech	NT-282 SCN	59.7	107	28	1.1	36.5	18.9	56.4	100	63.5	115	60.4	109							
NuTech	NT-303 SCN	58.0	104	27	1.0	35.9	19.5	58.3	104	57.9	105	56.8	103							
Experiment Mean		55.5	-	22	1.2	35.7	19.1	56.2	-	55.4	-	55.3	-							
Minimum Mean		38.5	-	12	1.0	33.5	18.2	47.4	-	27.9	-	42.5	-							
Maximum Mean		62.2	-	32	1.9	37.9	20.7	68.1	-	65.7	-	65.5	-							
LSD (0.05)		8.2	-	3	0.3	0.9	0.5	5.9	-	6.8	-	5.6	-							
Coefficient of Variability		6.1	-	0	0.3	0.5	0.3	13.0	-	17.4	-	11.7	-							
								6.4		7.5		6.2								

Table 11. Central Iowa Roundup Ready® soybean test, 2005 district and single-location means.

Brand	Entry	District Means						Lidderdale			Boone			Walker		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	
Asgrow	AG2203*	62.2	102	16	1.0	34.7	19.2	58.2	97	68.0	109	59.4	97			
Asgrow	AG2403	63.6	104	16	1.0	34.0	20.3	64.6	107	63.0	101	62.3	102			
Asgrow	AG2703	59.7	97	19	1.0	34.4	19.6	58.3	97	63.2	101	58.1	95			
Asgrow	AG2801	60.4	99	25	1.0	35.9	18.8	57.1	95	61.6	99	62.7	103			
Dairyland	DSR-234/RR	60.9	99	18	1.0	36.0	19.4	64.1	106	61.5	98	58.3	96			
Dairyland	DSR-2600/RR	59.6	97	20	1.0	34.6	19.3	62.3	103	62.5	100	53.2	87			
Dairyland	DSR-2700/RRSTS	61.4	100	25	1.0	36.1	19.5	60.4	100	64.4	103	61.1	100			
Dairyland	DSR-2800/RRSTS	60.9	99	25	1.0	34.8	19.2	59.2	98	59.7	96	61.7	101			
DEKALB	DKB25-51	61.4	100	20	1.0	33.5	20.2	66.3	110	54.8	88	62.6	103			
DEKALB	DKB26-52*	58.9	96	21	1.1	35.4	19.1	57.0	94	62.1	99	57.7	95			
Dyna-Gro	31N27	60.6	99	26	1.0	33.9	19.8	59.8	99	62.1	99	59.3	97			
Dyna-Gro	35P29	59.0	96	23	1.1	35.1	19.6	59.6	99	58.4	94	57.8	95			
Dyna-Gro	37K32	62.5	102	27	1.2	33.5	19.7	64.3	107	61.7	99	60.7	100			
Dyna-Gro	38K28	61.3	100	24	1.2	34.4	19.7	61.1	101	60.7	97	62.5	103			
Excel	8228RR	59.8	98	18	1.0	35.7	19.3	60.0	99	61.2	98	58.4	96			
Excel	8236NRR	62.2	101	19	1.0	35.9	19.3	62.9	104	62.0	99	62.6	103			
Excel	8239RR	59.2	97	15	1.0	35.2	19.1	59.3	98	61.6	99	56.5	93			
Excel	8243RR	57.2	93	18	1.0	35.2	18.8	61.7	102	51.4	82	61.0	100			
Excel	8257RR	62.8	103	23	1.0	35.6	19.3	60.8	101	63.4	102	63.7	104			
Excel	8259RR	65.4	107	21	1.0	34.0	19.6	63.6	105	65.9	106	64.3	105			
Excel	8283RR	60.9	99	24	1.0	35.6	19.1	58.5	97	62.2	100	59.9	98			
Farm Advantage	7143	54.2	88	12	1.0	34.2	20.1	53.1	88	54.7	88	54.2	89			
Farm Advantage	7264	60.4	99	26	1.0	34.4	19.6	57.9	96	66.1	106	56.6	93			
Four Star	2261RR	58.3	95	19	1.0	34.8	19.5	63.7	106	54.6	87	56.3	92			
Four Star	2281RR	61.3	100	23	1.0	34.4	19.5	58.9	98	68.8	110	55.8	92			
Four Star	2282RR	60.1	98	24	1.3	35.3	19.4	59.1	98	62.4	100	58.9	97			
Four Star	2314RR	56.2	92	29	1.2	36.5	18.3	49.9	83	58.8	94	57.8	95			
FS HISOY	HS 2645	62.2	102	20	1.1	35.0	19.3	58.6	97	67.1	108	60.1	99			
FS HISOY	HS 2846	61.9	101	25	1.1	34.4	19.4	60.1	100	64.4	103	61.4	101			
FS HISOY	HS 3135	63.2	103	25	1.1	33.8	19.7	60.3	100	64.4	103	65.1	107			
FS HISOY	HS 3236	59.7	98	27	1.1	35.9	19.5	53.7	89	64.5	103	61.6	101			
FS HISOY	HS 3346	59.3	97	28	1.4	36.3	18.7	54.8	91	65.1	104	58.4	96			
FS HISOY	HS 3536	61.0	100	28	1.1	35.1	19.7	53.8	89	64.2	103	66.1	108			
FS HISOY	HS 3846	60.5	99	31	1.2	33.9	19.5	55.4	92	62.5	100	61.9	102			
FS HISOY	X05-29	60.5	99	24	1.2	35.8	19.3	60.9	101	61.4	98	61.5	101			
FS HISOY	X05-34	59.7	97	29	1.2	35.3	19.2	54.9	91	61.3	98	61.9	101			
High Cycle by Treloy	2263RR	63.3	103	20	1.0	35.2	19.4	61.6	102	61.6	99	66.2	109			
High Cycle by Treloy	2285RR	62.5	102	26	1.0	35.6	19.1	60.9	101	66.1	106	61.3	101			
High Cycle by Treloy	2293RR	61.5	100	25	1.3	35.3	19.5	62.8	104	58.6	94	61.9	101			
Kruger	K-233+RR	60.5	99	17	1.0	35.6	19.4	61.0	101	57.2	92	62.2	102			
Kruger	K-255RR	63.6	104	19	1.0	35.7	19.3	61.6	102	66.2	106	63.8	105			
Kruger	K-270RR	59.0	96	23	1.1	34.5	19.7	59.0	98	55.5	89	60.9	100			
Kruger	K-273RR	62.6	102	18	1.0	34.8	19.5	59.6	99	63.5	102	63.3	104			
Kruger	K-277+RR/SCN	60.6	99	21	1.0	36.7	18.9	61.8	102	65.5	105	58.3	96			
Kruger	K-287RR/SCN	63.4	104	24	1.0	34.2	19.5	60.5	100	69.0	111	61.9	101			

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Table 11. Central Iowa Roundup Ready[®] soybean test, 2005 district and single-location means, continued.

Brand	Entry	District Means							Lidderdale			Boone			Walker		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)		
Kruger	K-289+RR	60.7	99	26	1.0	34.4	19.6	62.2	103	62.8	101	57.5	94				
Kruger	K-311RR/SCN	56.2	92	28	1.1	36.4	18.9	54.0	89	55.2	88	58.0	95				
Kruger	K-328RR	61.0	100	26	1.1	34.0	19.6	57.9	96	64.2	103	60.0	98				
KSC/Challenger	K-235RR/SCN	61.0	100	16	1.1	34.7	19.9	57.1	95	59.9	96	67.3	110				
KSC/Challenger	K-236RR/SCN	65.5	107	23	1.0	34.8	19.6	64.7	107	64.5	103	65.3	107				
KSC/Challenger	K-260RR	60.9	100	21	1.0	36.8	18.9	58.8	97	64.2	103	60.1	99				
KSC/Challenger	K-266RR/SCN	60.8	99	23	1.0	35.7	19.5	62.4	103	61.5	98	58.6	96				
KSC/Challenger	K-280RR	60.8	99	25	1.0	34.8	19.6	60.3	100	63.4	101	59.1	97				
KSC/Challenger	K-292RR/SCN	59.4	97	25	1.2	35.3	19.5	57.3	95	61.7	99	58.8	96				
KSC/Challenger	K-310RR	60.9	99	23	1.0	35.8	18.9	55.3	92	62.6	100	63.0	103				
Latham	E2922RX	58.2	95	24	1.1	36.3	18.4	54.2	90	61.3	98	57.7	95				
Latham	L2635R	62.5	102	20	1.0	34.9	19.5	60.0	99	63.4	102	63.1	103				
Latham	L2646R	62.0	101	20	1.0	34.2	19.5	65.3	108	58.9	94	62.0	102				
Latham	L3157R	63.4	104	25	1.1	33.5	19.8	54.8	91	68.4	110	66.0	108				
Merschman	Apache 626RR	63.6	104	20	1.0	35.4	19.4	62.2	103	70.0	112	59.8	98				
Merschman	Cherokee 628RR	61.4	100	27	1.0	34.4	19.5	61.3	102	59.5	95	64.6	106				
Merschman	Jefferson 630RR	58.5	95	24	1.2	35.6	19.4	60.7	101	54.7	88	60.7	100				
Merschman	Mohegan 624RR	59.4	97	18	1.0	35.1	19.5	62.0	103	60.6	97	58.0	95				
Merschman	Shawnee 527RR	55.7	91	20	1.0	36.4	19.1	55.2	92	57.2	92	55.5	91				
Merschman	Sioux IIRR	59.9	98	21	1.0	35.6	19.5	58.3	97	60.4	97	61.7	101				
NuTech	NT-2222+ RR/SCN	65.5	107	17	1.0	34.4	20.3	64.2	106	69.1	111	63.8	105				
NuTech	NT-2324+ RR/SCN	66.0	108	20	1.0	35.3	19.6	62.0	103	68.6	110	65.7	108				
NuTech	NT-2333+ RR	66.2	108	15	1.7	35.1	19.1	62.8	104	69.5	111	65.9	108				
NuTech	NT-2424 RR/SCN	64.4	105	20	1.1	35.1	19.4	63.1	105	66.8	107	63.2	104				
NuTech	NT-2440 RR	63.5	104	17	1.1	36.1	19.6	59.1	98	63.1	101	66.9	110				
NuTech	NT-2626+ RR	64.4	105	20	1.0	35.7	19.3	61.8	102	62.8	101	68.6	112				
NuTech	NT-2890+ RR	60.9	99	27	1.0	34.6	19.5	57.6	95	57.6	92	63.2	104				
NuTech	NT-2919+ RR/SCN	59.6	97	25	1.3	35.6	19.4	63.4	105	60.4	97	57.5	94				
NuTech	NT-2992 RR	58.6	96	26	1.0	35.6	19.1	64.0	106	58.9	94	52.5	86				
NuTech	NT-3100 RR	59.8	98	26	1.0	36.2	18.8	57.8	96	64.0	102	59.0	97				
Prairie Brand	PB-2345RR	61.1	100	16	1.3	34.9	19.2	59.2	98	68.1	109	56.5	93				
Prairie Brand	PB-2385NRR	60.8	99	19	1.1	34.8	19.6	63.0	104	57.9	93	64.1	105				
Prairie Brand	PB-2443RR	62.2	102	17	1.0	35.9	19.3	64.4	107	61.0	98	61.8	101				
Prairie Brand	PB-2565RR	61.9	101	18	1.0	35.1	19.3	63.3	105	62.6	100	61.0	100				
Prairie Brand	PB-2625RR	56.9	93	19	1.0	35.8	19.3	58.1	96	51.9	83	60.2	99				
Prairie Brand	PB-2643RR	58.7	96	26	1.0	34.3	19.7	59.3	98	61.2	98	55.3	91				
Prairie Brand	PB-2745RR	62.1	101	25	1.0	33.9	19.6	64.9	108	61.6	99	58.9	97				
Prairie Brand	PB-2794NRR	62.0	101	25	1.1	34.7	19.3	62.5	104	64.8	104	57.7	95				
Prairie Brand	PB-2994NRR	60.3	98	25	1.4	35.3	19.6	59.1	98	62.6	100	58.7	96				
Prairie Brand	PB-3123RR	62.2	102	27	1.1	33.8	19.7	64.3	107	63.7	102	57.0	93				
Prairie Brand	PB-3305RR	57.5	94	27	1.0	35.9	18.8	53.4	88	60.0	96	59.4	97				
Renk	RS253RR	65.2	107	20	1.0	35.4	19.4	60.8	101	65.9	106	70.1	115				
Renk	RS265RR	61.3	100	18	1.1	34.7	19.5	62.9	104	64.9	104	56.6	93				
Renk	RS272RR	63.3	103	23	1.0	35.2	19.7	63.6	105	64.5	103	62.4	102				
Renk	RS295NRR	58.3	95	24	1.3	35.5	19.5	58.9	98	59.2	95	58.1	95				

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Table 11. Central Iowa Roundup Ready® soybean test, 2005 district and single-location means, continued.

Brand	Entry	District Means						Lidderdale			Boone			Walker		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	
Renze	R2306RR	61.8	101	18	1.4	35.0	19.1	59.3	98	66.8	107	57.6	95			
Renze	R2446RR	61.5	100	19	1.0	35.8	19.3	63.3	105	61.0	98	61.7	101			
Renze	R2626RR	62.8	103	21	1.1	34.3	19.5	64.0	106	60.9	97	61.5	101			
Renze	R2645RR	64.5	105	21	1.0	35.0	19.5	64.5	107	63.6	102	66.3	109			
Renze	R2724RR	62.4	102	26	1.0	34.3	19.6	64.1	106	64.7	104	57.9	95			
Renze	R3115RR	63.4	103	26	1.0	33.7	19.7	61.8	102	64.0	103	66.3	109			
Stine	2402-4	60.7	99	19	1.0	35.1	19.5	61.3	102	61.3	98	59.6	98			
Stine	2688-4	59.2	97	19	1.1	35.5	19.3	60.9	101	54.0	87	61.4	101			
Stine	2743-4	60.2	98	27	1.0	34.4	19.4	62.0	103	67.2	108	53.0	87			
Tech Brand	T-2222 RR/SCN	65.8	107	18	1.0	34.1	20.4	65.6	109	65.3	105	66.2	109			
Tech Brand	T-2324 RR/SCN	61.8	101	19	1.0	35.1	19.8	60.2	100	65.8	105	61.5	101			
Tech Brand	T-2333 RR	62.2	102	18	1.3	34.7	19.4	61.3	102	65.5	105	60.3	99			
Tech Brand	T-2400 RR	59.8	98	18	1.0	36.1	18.5	58.5	97	53.7	86	67.0	110			
Tech Brand	T-2626 RR	63.7	104	20	1.0	36.0	19.1	66.6	110	61.3	98	66.0	108			
Tech Brand	T-2707 RR	61.0	100	20	1.2	35.1	19.3	61.3	102	58.7	94	62.4	102			
Tech Brand	T-2890 RR	63.5	104	27	1.0	34.5	19.5	60.6	100	62.9	101	66.8	109			
Tech Brand	T-2919 RR/SCN	59.1	96	26	1.1	35.5	19.5	56.2	93	62.2	100	60.3	99			
Tech Brand	T-7206 RR	65.5	107	19	1.0	34.7	19.7	68.0	113	69.3	111	60.2	99			
Thompson Seeds	T-2100 RR	63.7	104	18	1.1	35.8	19.2	62.8	104	64.0	102	66.1	108			
Thompson Seeds	T-2330 RR	62.5	102	19	1.0	34.8	19.9	61.2	101	65.9	106	60.5	99			
Thompson Seeds	T-2700 RR	61.2	100	24	1.0	34.4	19.4	59.2	98	66.8	107	57.5	94			
Thompson Seeds	T-2711 RR/SCN	61.1	100	24	1.2	35.0	19.2	58.8	97	63.3	101	60.7	100			
Thompson Seeds	T-2727 RR/SCN	61.1	100	21	1.0	36.7	19.1	59.7	99	63.6	102	59.5	98			
Thompson Seeds	T-2990 RR	61.5	100	27	1.0	35.0	19.6	59.9	99	63.3	101	60.8	100			
Thompson Seeds	T-2999 RR/SCN	58.7	96	26	1.1	35.5	19.2	56.6	94	59.6	95	60.7	100			
Thompson Seeds	T-3101 RR	60.7	99	27	1.1	33.9	19.6	60.2	100	62.9	101	61.0	100			
Thompson Seeds	T-3101 + RR	58.4	95	27	1.1	34.5	19.5	57.8	96	60.4	97	56.8	93			
Thompson Seeds	T-3232 RR/SCN	65.1	106	25	1.0	34.3	19.4	67.2	111	65.8	105	62.5	102			
Thompson Seeds	T-7206+ RR	64.7	106	15	1.0	34.6	19.8	60.6	100	64.1	103	70.6	116			
Experiment Mean		61.2	-	22	1.1	35.1	19.4	60.3	-	62.5	-	61.0	-			
Minimum Mean		54.2	-	12	1.0	33.5	18.3	49.9	-	51.4	-	52.5	-			
Maximum Mean		66.2	-	31	1.7	36.8	20.4	68.0	-	70.0	-	70.6	-			
LSD (0.05)		5.4	-	3				5.9	-	8.7	-	8.3	-			
Coefficient of Variability		7.2	-					5.9	-	8.5	-	8.3	-			

*Widely grown check variety entered by Iowa State University

Table 12. Southern Iowa conventional herbicide soybean test, 2005 district and single-location means.

Brand	Entry	District Means						Orient			Crawfordsville		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)
FS HISOY	HS 3591	56.6	95	22	1.1	36.4	18.6	51.6	92	61.7	97		
FS HISOY	HS 3892	56.5	94	21	1.0	34.9	19.3	49.2	88	63.9	100		
Iowa State	IA2054	58.0	97	20	1.0	38.0	18.2	54.2	97	60.8	95		
Iowa State	IA3017	58.0	97	19	1.0	35.0	19.0	56.8	102	58.8	92		
Iowa State	IA3018	65.7	110	22	1.2	33.2	20.4	64.1	115	70.1	110		
Iowa State	IA3019	64.2	107	18	1.0	33.7	20.4	63.7	114	65.0	102		
Iowa State	IA3021	53.0	88	16	1.0	36.8	19.2	48.7	87	58.3	92		
Iowa State	IA3022	60.8	102	18	1.3	39.0	17.8	57.1	102	64.4	101		
Iowa State	IA3023	65.7	110	22	1.1	33.3	20.1	61.9	111	70.7	111		
Iowa State	IA3024	65.5	109	21	1.0	32.7	20.3	60.5	108	68.9	108		
Iowa State	IA3025	60.7	101	20	1.1	34.2	19.7	58.1	104	63.8	100		
IPAP	IP3002	58.2	97	18	1.0	36.9	19.0	51.9	93	62.1	98		
IPAP	IP3602	56.6	94	29	1.3	36.1	18.9	50.8	91	60.7	95		
IPAP	IP3920	59.2	99	25	1.1	36.8	18.2	63.0	113	60.6	95		
Kruger	K-2918SCN	62.5	104	22	1.1	36.1	18.9	54.3	97	66.1	104		
Kruger	K-3777SCN	56.7	95	25	1.0	35.0	19.2	48.6	87	62.8	99		
Experiment Mean		59.9	-	21	1.1	35.5	19.2	55.9	-	63.7	-		
Minimum Mean		53.0	-	16	1.0	32.7	17.8	48.6	-	58.3	-		
Maximum Mean		65.7	-	29	1.3	39.0	20.4	64.1	-	70.7	-		
LSD (0.05)		5.0	-	2				5.7	-	4.2	-		
Coefficient of Variability		5.2	-					6.2	-	4.0	-		

Table 13. Southern Iowa Roundup Ready[®] soybean test, 2005 district and single-location means.

Brand	Entry	District Means					Orient			Crawfordsville		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	
Asgrow	AG3101	60.3	100	18	1.0	36.3	18.3	58.0	103	64.9	101	
Asgrow	AG3302*	61.5	102	21	1.0	35.6	19.2	55.7	99	67.1	104	
Asgrow	AG3305	58.1	96	22	1.1	33.4	19.2	55.1	98	60.2	94	
Asgrow	AG3602	62.3	103	22	1.0	35.8	18.2	59.5	105	63.9	99	
DEKALB	DKB34-51	61.6	102	20	1.0	36.3	18.4	56.6	100	66.8	104	
Dyna-Gro	31T31	57.7	96	18	1.0	35.0	20.1	53.1	94	63.7	99	
Dyna-Gro	32C38	60.3	100	22	1.1	33.7	19.3	54.3	96	66.8	104	
Dyna-Gro	33A37	61.2	101	22	1.1	35.9	18.5	55.9	99	66.3	103	
Dyna-Gro	35D33	62.9	104	20	1.1	32.6	20.3	59.5	105	65.2	101	
Dyna-Gro	37K32	56.6	94	23	1.0	34.7	19.7	55.2	98	57.7	90	
Dyna-Gro	SX05935	58.8	97	22	1.1	36.0	18.7	51.1	91	66.1	103	
Excel	8317RR/STS	61.1	101	20	1.0	35.6	18.5	58.2	103	63.7	99	
Four Star	2282RR	62.5	103	19	1.1	34.6	20.0	62.5	111	62.7	97	
Four Star	2314RR	60.3	100	20	1.3	36.3	18.3	58.1	103	62.0	96	
FS HISOY	HS 3236	56.1	93	18	1.0	35.0	19.9	49.3	87	61.6	96	
Kruger	K-287RR/SCN	57.7	96	19	1.0	34.3	19.7	56.7	100	58.8	91	
Kruger	K-289+RR	59.2	98	19	1.0	33.6	20.0	58.1	103	59.8	93	
Kruger	K-311RR/SCN	57.4	95	19	1.1	35.4	19.2	52.0	92	62.5	97	
Kruger	K-328RR	62.1	103	18	1.2	33.0	20.1	57.5	102	66.2	103	
Kruger	K-333RR/SCN	66.0	109	24	1.0	34.3	20.1	59.9	106	72.3	112	
Kruger	K-355RR/SCN	66.8	111	25	1.0	34.2	20.1	63.9	113	68.8	107	
Kruger	K-373RR/SCN	56.4	93	23	1.0	36.0	18.6	52.1	92	59.8	93	
Kruger	K-389RR/SCN	60.2	100	24	1.0	33.9	19.3	52.8	94	67.5	105	
Kruger	K-399RR/SCN	60.6	100	23	1.3	34.6	19.1	56.0	99	64.5	100	
KSC/Challenger	K-280RR	60.1	100	19	1.0	34.0	19.9	54.2	96	67.1	104	
KSC/Challenger	K-292RR/SCN	63.5	105	18	1.0	34.4	20.0	64.0	113	64.2	100	
KSC/Challenger	K-310RR	62.0	103	22	1.0	34.6	19.4	55.9	99	68.4	106	
KSC/Challenger	K-330RR	61.2	101	22	1.0	34.6	19.5	55.0	98	67.5	105	
KSC/Challenger	K-341RR/SCN	54.2	90	22	1.1	35.2	19.4	51.7	92	56.9	88	
KSC/Challenger	K-349RR	57.7	96	20	1.1	35.1	20.0	54.5	96	62.2	97	
KSC/Challenger	K-349RR	57.7	96	19	1.1	35.3	19.8	53.1	94	62.6	97	
KSC/Challenger	K-380RR/SCN	58.2	96	24	1.2	33.7	19.7	53.1	94	63.8	99	
KSC/Challenger	K-397RR/SCN	57.2	95	22	1.3	34.4	19.1	51.3	91	63.3	98	
Latham	E3454R	61.5	102	20	1.0	34.6	20.5	55.5	98	67.4	105	
Merschman	Grant IIHR	65.2	108	25	1.0	34.5	19.9	62.6	111	68.9	107	
Merschman	Jefferson 630RR	58.0	96	19	1.1	34.5	20.0	57.3	102	58.7	91	
Merschman	Kennedy 538RR	59.7	99	22	1.2	35.2	19.5	56.7	101	63.3	98	
Merschman	Truman 636RR	60.9	101	24	1.0	32.6	20.0	58.1	103	65.3	102	
Merschman	Washington IXRR	61.7	102	26	1.1	34.3	20.1	59.4	105	64.7	100	
NuTech	NT-2992 RR	58.9	98	19	1.1	34.0	19.8	52.5	93	65.1	101	
NuTech	NT-3100 RR	63.3	105	21	1.1	35.1	19.4	57.8	102	67.2	104	
NuTech	NT-3322 RR	63.9	106	20	1.2	33.9	19.9	59.3	105	67.9	105	
NuTech	NT-3500 RR	63.5	105	21	1.0	34.3	19.4	59.5	106	66.9	104	
NuTech	NT-3515 RR/SCN	52.9	88	21	1.1	34.7	19.4	50.7	90	54.7	85	
NuTech	NT-3550 RR/SCN	56.9	94	20	1.0	36.0	18.3	52.1	92	62.5	97	

—continued

Table 13. Southern Iowa Roundup Ready® soybean test, 2005 district and single-location means, continued.

Brand	Entry	District Means						Orient			Crawfordsville		
		Yield (Bu/Acre)	Yield (% of Mean)	Maturity Date	Lodging Score	Protein (%)	Oil (%)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)	Yield (Bu/Acre)	Yield (% of Mean)
NuTech	NT-3636+ RR/SCN	60.1	100	20	1.1	35.2	19.5	56.2	100	62.9	98		
NuTech	NT-3666+ RR/SCN	62.2	103	23	1.0	36.4	18.2	57.5	102	67.7	105		
NuTech	NT-3737+ RR/SCN	62.5	104	26	1.3	35.9	18.7	58.8	104	65.4	102		
NuTech	NT-3900 RR/SCN	63.2	105	25	1.2	35.6	19.9	55.8	99	68.1	106		
Prairie Brand	PB-2994NRR	58.8	97	18	1.0	34.7	19.9	54.3	96	62.8	98		
Prairie Brand	PB-3123RR	64.1	106	19	1.0	33.2	20.1	62.2	110	65.9	102		
Prairie Brand	PB-3305RR	61.1	101	22	1.1	34.9	19.4	57.0	101	64.8	101		
Prairie Brand	PB-3383NRR	58.3	97	19	1.0	35.0	20.0	52.5	93	65.3	102		
Prairie Brand	PB-3585NRR	55.5	92	20	1.1	35.0	19.4	49.6	88	62.7	97		
Prairie Brand	PB-3785NRR	61.0	101	23	1.0	36.6	18.1	54.2	96	66.8	104		
Prairie Brand	PB-3894NRR	62.0	103	24	1.0	33.6	19.4	58.2	103	66.1	103		
Prairie Brand	PB-3905RR	62.5	104	24	1.0	32.8	19.8	60.7	108	64.9	101		
Renze	R2626RR	57.7	96	18	1.0	33.2	20.2	50.4	89	64.5	100		
Renze	R2996RRcñ	61.0	101	17	1.0	34.7	20.0	60.1	106	61.4	95		
Renze	R3115RR	65.0	108	19	1.0	33.0	20.1	63.1	112	67.0	104		
Renze	R3386RRcñ	59.9	99	21	1.1	36.4	18.3	58.1	103	61.6	96		
Renze	R3686RRcñ	54.4	90	23	1.1	36.0	18.4	49.5	88	61.3	95		
Renze	R3726RR	62.9	104	24	1.0	32.9	19.9	62.4	111	63.2	98		
Stine	3012-4	60.3	100	18	1.0	34.3	20.1	56.4	100	65.7	102		
Stine	3532-4	63.7	105	25	1.0	34.7	19.8	60.0	106	69.7	108		
Stine	3600-4	61.6	102	23	1.1	32.9	19.9	57.4	102	65.5	102		
Stine	3832-4	58.5	97	25	1.2	34.3	20.1	55.1	98	61.1	95		
Thompson Seeds	T-3101 RR	63.5	105	20	1.0	33.4	20.0	60.9	108	64.5	100		
Thompson Seeds	T-3101+ RR	64.5	107	19	1.0	33.6	20.0	60.7	108	68.1	106		
Thompson Seeds	T-3303 RR	59.4	98	19	1.0	35.4	19.7	53.1	94	66.2	103		
Thompson Seeds	T-3636 RR/SCN	58.0	96	22	1.1	35.0	19.5	54.2	96	61.1	95		
Thompson Seeds	T-3666 RR/SCN	60.4	100	23	1.0	36.6	18.2	53.4	95	67.5	105		
Thompson Seeds	T-3737 RR/SCN	58.9	97	24	1.2	35.9	18.8	54.0	96	64.3	100		
Thompson Seeds	T-3777+ RR	61.9	103	23	1.0	32.9	19.8	56.8	101	66.3	103		
Thompson Seeds	T-3999+ RR/SCN	59.3	98	24	1.2	33.9	19.6	54.2	96	65.1	101		
Experiment Mean		60.4	-	21	1.1	34.7	19.5	56.4	-	64.4	-		
Minimum Mean		52.9	-	17	1.0	32.6	18.1	49.3	-	54.7	-		
Maximum Mean		66.8	-	26	1.3	36.6	20.5	64.0	-	72.3	-		
LSD (0.05)		5.2	-	2				6.9	-	5.4	-		
Coefficient of Variability		5.5	-					7.5	-	5.2	-		

*Widely grown check variety entered by Iowa State University

Table 14. Soybean cyst nematode percent reproduction.

Brand	Entry	% Repro.	Brand	Entry	% Repro.	Brand	Entry	% Repro.
Asgrow	AG2203	0.4	KSC/Challenger	K-180RR	29.0	Prairie Brand	PB-2183NRR	0.4
Asgrow	AG2801	0.6	KSC/Challenger	K-188RR/SCN	0.0	Prairie Brand	PB-2385NRR	0.4
Asgrow	AG3101	0.6	KSC/Challenger	K-213RR/SCN	15.4	Prairie Brand	PB-2794NRR	1.7
Asgrow	AG3305	0.0	KSC/Challenger	K-235RR/SCN	27.6	Prairie Brand	PB-2994NRR	0.6
Asgrow	AG3602	2.7	KSC/Challenger	K-236RR/SCN	4.3	Prairie Brand	PB-3383NRR	0.4
			KSC/Challenger	K-237RR	22.4	Prairie Brand	PB-3585NRR	1.4
DEKALB	DKB26-52	0.4	KSC/Challenger	K-238RR	25.7	Prairie Brand	PB-3785NRR	1.0
DEKALB	DKB34-51	1.7	KSC/Challenger	K-266RR/SCN	35.2	Prairie Brand	PB-3894NRR	0.8
			KSC/Challenger	K-280RR	12.1			
Dyna-Gro	31T31	0.0	KSC/Challenger	K-292RR/SCN	3.5	Renk	RS204NRR	0.4
Dyna-Gro	32C38	1.4	KSC/Challenger	K-330RR	17.1	Renk	RS295NRR	1.0
Dyna-Gro	33A37	1.6	KSC/Challenger	K-341RR/SCN	2.7			
Dyna-Gro	35D33	2.7	KSC/Challenger	K-380RR/SCN	0.4	Renze	R2496RRcn	0.8
Dyna-Gro	35P29	3.1	KSC/Challenger	K-397RR/SCN	2.9	Renze	R2996RRcn	0.4
						Renze	R3386RRcn	1.6
Excel	8236NRR	9.3	Latham	E2922RX	0.4	Renze	R3686RRcn	1.0
			Latham	L2980	2.7			
Four Star	2281RR	0.0				Stine	2032-4	0.4
Four Star	2282RR	1.2	Merschman	Apache 626RR	12.2	Stine	2402-4	0.0
Four Star	2314RR	1.0	Merschman	Grant III RR	5.6	Stine	3012-4	0.0
			Merschman	Jefferson 630RR	1.7	Stine	3532-4	7.8
FS HiSOY	HS 2431	2.3	Merschman	Kennedy 538RR	2.1	Stine	3832-4	4.7
FS HiSOY	HS 2846	0.0	Merschman	Mohegan 624RR	0.8			
FS HiSOY	HS 2911	0.0	Merschman	Shawnee 527RR	1.9	Tech Brand	T-2222 RR/SCN	0.0
FS HiSOY	HS 3236	2.9	Merschman	Washington IXRR	16.7	Tech Brand	T-2303 RR	12.1
FS HiSOY	HS 3346	1.4				Tech Brand	T-2324 RR/SCN	3.7
FS HiSOY	HS 3536	2.3	NuTech	NT-180	3.3	Tech Brand	T-2333 RR	6.2
FS HiSOY	HS 3591	1.9	NuTech	NT-193 SCN	1.0	Tech Brand	T-2400 RR	11.1
FS HiSOY	HS 3846	2.1	NuTech	NT-2002 RR	8.0	Tech Brand	T-2626 RR	8.7
FS HiSOY	HS 3892	1.0	NuTech	NT-201	11.5	Tech Brand	T-2707 RR	9.5
FS HiSOY	X05-29	1.4	NuTech	NT-201	7.2	Tech Brand	T-2727 RR/SCN	2.7
FS HiSOY	X05-34	1.2	NuTech	NT-2120 RR	19.6	Tech Brand	T-2890 RR	15.7
			NuTech	NT-2202a RR	21.2	Tech Brand	T-2919 RR/SCN	2.3
High Cycle by Trelay	2245RR	0.0	NuTech	NT-2222+ RR/SCN	11.5	Tech Brand	T-7205A RR	22.0
High Cycle by Trelay	2293RR	0.0	NuTech	NT-232 SCN	1.4	Tech Brand	T-7206 RR	24.9
			NuTech	NT-2324+ RR/SCN	2.3			
Iowa State	IA1008	0.4	NuTech	NT-2330 RR	19.1	Thompson Seeds	T-1828 RR/SCN	3.1
Iowa State	IA2068	0.0	NuTech	NT-2333+ RR	11.7	Thompson Seeds	T-1888 RR/SCN	37.1
			NuTech	NT-242 SCN	1.2	Thompson Seeds	T-2100 RR	17.9
IPAP	IP2902N	0.4	NuTech	NT-2424 RR/SCN	1.4	Thompson Seeds	T-2102 RR	23.3
			NuTech	NT-2440 RR	46.1	Thompson Seeds	T-2103 RR	47.4
Kruger	K-195+RR/SCN	0.4	NuTech	NT-260	15.6	Thompson Seeds	T-2112 RR/STS	41.6
Kruger	K-200RR	29.4	NuTech	NT-262	10.3	Thompson Seeds	T-2120 RR	17.3
Kruger	K-212RR	21.6	NuTech	NT-2626+ RR	9.3	Thompson Seeds	T-2122 RR/SCN	0.0
Kruger	K-2320SCN	0.4	NuTech	NT-266 SCN	0.0	Thompson Seeds	T-2330 RR	29.6
Kruger	K-270RR	15.9	NuTech	NT-282 SCN	0.8	Thompson Seeds	T-2700 RR	8.4
Kruger	K-277+RR/SCN	6.4	NuTech	NT-2890+ RR	43.4	Thompson Seeds	T-2711 RR/SCN	0.4
Kruger	K-287RR/SCN	0.4	NuTech	NT-2919+ RR/SCN	0.6	Thompson Seeds	T-2727 RR/SCN	1.2
Kruger	K-2918SCN	0.4	NuTech	NT-2992 RR	8.0	Thompson Seeds	T-2990 RR	34.0
Kruger	K-311RR/SCN	1.0	NuTech	NT-303 SCN	1.0	Thompson Seeds	T-2999 RR/SCN	0.4
Kruger	K-333RR/SCN	3.1	NuTech	NT-3100 RR	20.2	Thompson Seeds	T-3101 RR	42.4
Kruger	K-355RR/SCN	1.4	NuTech	NT-3322 RR	7.2	Thompson Seeds	T-3101+ RR	32.1
Kruger	K-373RR/SCN	0.6	NuTech	NT-3500 RR	10.5	Thompson Seeds	T-3232 RR/SCN	0.0
Kruger	K-3777SCN	1.7	NuTech	NT-3515 RR/SCN	1.4	Thompson Seeds	T-3303 RR	8.0
Kruger	K-389RR/SCN	1.7	NuTech	NT-3550 RR/SCN	1.2	Thompson Seeds	T-3636 RR/SCN	1.0
Kruger	K-399RR/SCN	3.5	NuTech	NT-3636+ RR/SCN	2.3	Thompson Seeds	T-3666 RR/SCN	2.5
			NuTech	NT-3666+ RR/SCN	1.9	Thompson Seeds	T-3737 RR/SCN	18.9
			NuTech	NT-3737+ RR/SCN	3.9	Thompson Seeds	T-3777+ RR	45.1
			NuTech	NT-3900 RR/SCN	33.6	Thompson Seeds	T-3999+ RR/SCN	1.0
						Thompson Seeds	T-7193+ RR/SCN	1.0
						Thompson Seeds	T-7205+ RR	41.8
						Thompson Seeds	T-7206+ RR	31.5
						Viking	1908CNRR	1.6
						Viking	2181CN	1.6
						Viking	2368CNRR	7.4

Table 15. Origin and descriptive data for 2005 entries.*

Entry	HC	FC	PC	SR	BSR	Phyto Race			SCN Source	Entry	HC	FC	PC	SR	BSR	Phyto Race			SCN Source										
						1	2	3								1	2	3											
Monsanto, St. Louis, MO (314-694-1000)										Growmark, Inc.																			
Asgrow:										FS HiSOY, continued:																			
AG1903	G	W	G	9	-	R	R	R	-	HS 3236	IB	P	G	9	N	R	R	S	88788	HS 3346	IB	P	G	9	Y	R	R	S	88788
AG2203	IB	P	G	9	Y	R	R	R	88788	HS 3536	BL	W	T	9	N	R	R	R	88788	HS 3591	IB	P	G	9	N	R	R	S	88788
AG2403	BL	P	T	9	Y	R	R	R	-	HS 3846	BF	W	G	9	N	R	R	S	88788	HS 3892	IB	P	G	9	N	R	R	S	88788
AG2703	IB	P	G	9	Y	R	R	R	-	X05-25	BR	P	LT	9	N	S	S	S	-	X05-29	BL	P	LT	9	N	S	S	S	88788
AG2801	BL	P	LT	9	N	R	-	-	88788	X05-34	IB	P	G	9	Y	R	R	R	88788										
AG3101	IB	P	G	9	Y	R	R	-	88788	Farm Advantage Corp., Belmond, IA (641-444-3344)																			
AG3302	IB	P	G	9	Y	R	R	-	-	Farm Advantage:																			
AG3305	IB	P	G	9	N	R	R	-	88788	7143	BL	P	T	9	-	R	R	R	-	7205	BR	P	LT	9	N	R	S	S	-
AG3602	IB	P	G	9	Y	R	R	-	88788	7253	IB	P	G	9	-	R	R	S	-	7264	BL	W	T	9	-	R	R	R	-
DEKALB:										Four Star Seed Co., Parkersburg, IA (712-644-1400)																			
DKB22-52	IY	W	T	9	N	S	S	S	-	Four Star:																			
DKB25-51	IB	P	G	9	N	R	R	R	-	2261RR	IB	P	G	9	N	-	-	-	-	2281RR	BR	W	T	9	Y	-	-	-	88788
DKB26-52	IB	P	G	9	N	R	-	-	88788	2282RR	BL	P	G	9	N	-	-	-	88788	2314RR	IB	P	G	9	Y	-	-	-	88788
DKB34-51	IB	P	G	9	N	R	R	R	88788	3242RR	BR	W	T	9	N	-	-	-	-	Trelay Seed Co., Livingston, WI (608-943-6363)									
Dairyland Seed Company, Inc., West Bend, WI (800-230-0163)										High Cycle by Trelay:																			
Dairyland:										2213RR	BL	P	LT	9	Y	-	-	-	-	2223RR	BR	W	T	9	-	R	-	-	-
DSR-1900/RR	BL	W	LT	9	N	M	M	M	-	2224RR	BL	P	LT	9	Y	-	-	-	-	2245RR	BL	P	LT	9	-	-	-	88788	
DSR-199/RRSTS	BL	W	LT	9	Y	R	R	R	-	2263RR	IB	P	G	9	-	R	-	-	-	2285RR	BL	P	T	9	-	-	-	-	
DSR-234/RR	BL	P	LT	9	N	M	M	M	-	2293RR	BL	P	LT	9	Y	-	-	-	88788	Identity Preserved Ag Products, LLC, Farmer City, IL (217-202-3933)									
DSR-2500/RR	BL	W	LT	9	Y	R	R	R	-	IPAP:																			
DSR-2600/RR	BL	M	LT	9	N	R	R	R	-	IP2502	Y	P	G	10	N	-	-	-	-	IP2702	Y	P	G	10	N	-	-	-	
DSR-2700/RRSTS	BL	W	LT	9	N	-	-	-	-	IP2902N	Y	W	G	10	N	-	-	-	88788	IP3002	Y	P	G	10	N	-	R	R	
DSR-2800/RRSTS	IB	P	G	9	N	M	M	S	-	IP3602	Y	P	G	10	N	-	-	-	-	IP3920	BL	P	LT	10	N	-	-	-	
Dyna-Gro, Wall Lake, IA (712-664-2444)										KE18	Y	P	G	10	N	-	-	-	-	KE81	BF	W	LT	10	N	-	-	-	-
Dyna-Gro:										Iowa Ag. Exp. Stn., Ames, IA (515-292-3497)																			
31N27	BL	W	T	10	-	R	R	R	-	IA1008	Y	W	G	9	N	S	S	S	88788	IA1017	Y	P	G	9	N	S	S	S	
31T31	IB	P	G	10	-	R	R	-	88788	IA1018	Y	P	LT	9	N	S	S	S	-	IA2046	Y	P	G	9	N	S	S	S	
32C38	BF	W	G	10	-	R	R	-	88788	IA2053	Y	P	G	9	N	S	S	S	-	IA2054	Y	P	T	9	N	S	S	S	
33A37	IB	P	G	10	-	R	R	-	88788	IA2064	BL	P	T	9	N	S	S	S	-	IA2065	BL	P	T	9	N	S	S	S	
35D33	IB	P	G	10	-	R	R	R	88788	IA2068	Y	W	G	9	N	S	S	S	Combo	IA2069	BL	P	T	9	N	S	S	S	
35P29	BR	P	T	10	-	-	-	-	88788	IA2070	BL	P	T	9	N	S	S	S	-	IA2071	IB	P	G	9	N	S	S	S	
37K32	BL	P	T	10	-	R	R	-	-	IA2072	BL	W	LT	9	N	S	S	S	-	IA2073	BL	W	T	9	N	S	S	S	
38K28	IB	P	G	10	-	-	-	-	-	IA3017	BL	P	T	9	N	S	S	S	-	IA3018	BL	P	T	9	N	S	S	S	
SXO5935	IB	P	G	10	-	R	R	R	-	IA3019	BL	W	LT	9	N	S	S	S	-	IA3021	Y	P	G	9	N	S	S	S	
EXCEL Brand, Camp Point, IL (800-593-7708)										IA3022	Y	P	G	9	N	S	S	S	-	IA3023	BL	W	LT	9	N	S	S	S	
Excel:																													
8192RR	BL	W	LT	9	-	M	M	M	-																				
8210RR	BL	W	LT	9	Y	M	M	M	-																				
8213RR/STS	BF	P	G	9	-	M	M	M	-																				
8214RR	BL	W	LT	9	Y	-	-	-	-																				
8226RR	BL	P	LT	9	-	M	M	M	-																				
8236NRR	BL	P	LT	9	Y	S	S	S	Other																				
8238RR	BL	W	LT	9	-	-	-	-	-																				
8239RR	BL	P	LT	9	-	-	-	-	-																				
8243RR	BL	P	LT	9	-	-	-	-	-																				
8244RR	IB	W	LT	9	-	-	-	-	-																				
8253RR	BL	W	LT	9	Y	R	R	R	-																				
8257RR	BR	W	LT	9	-	S	S	S	-																				
8259RR	BL	M	LT	9	-	R	R	R	-																				
8283RR	BL	P	T	9	-	-	-	-	-																				
8317RR/STS	BL	W	LT	9	-	M	M	M	-																				
Growmark, Inc., Bloomington, IN (309-557-6399)																													
FS HiSOY:																													
HS 2025	BF	P	T	9	N	S	S	S	-																				
HS 2225	BR	W	LT	9	N	R	R	R	-																				
HS 2345	BL	P	LT	9	Y	R	R	R	-																				
HS 2431	BR	W	LT	9	N	S	S	S	88788																				
HS 2645	IB	P	G	9	N	R	R	S	-																				
HS 2846	BL	W	LT	9	Y	R	R	S	88788																				
HS 2861	IB	P	G	9	N	R	R	R	-																				
HS 2911	IB	P	G	9	Y	S	S	S	88788																				
HS 3135	BL	P	T	9	Y	R	R	S	-																				

Table 15. Origin and descriptive data for 2005 entries,* *continued.*

Entry	HC	FC	PC	SR	BSR	Phyto Race			SCN Source	Entry	HC	FC	PC	SR	BSR	Phyto Race			SCN Source
						1	2	3								1	2	3	
Iowa Ag. Exp. Stn., Ames, IA (515-292-3497), continued										Latham Seed Co.									
IA3024	IB	P	G	9	N	S	S	S	-	Latham, continued:									
IA3025	IB	P	G	9	N	S	S	S	-	L2646R	BL	M	LT	9	Y	R	R	R	-
Kruger Seed Co., Dike, IA (800-712-2721)										L2980	IB	P	G	9	N	S	S	S	88788
Kruger:										L3157R	BL	P	T	9	Y	R	R	S	-
K-191RR	BR	W	LT	9	-	S	S	S	-	Merschman Seeds, West Point, IA (800-848-7333)									
K-195+RR/SCN	M	W	LT	9	Y	R	R	R	88788	Merschman:									
K-1999	BR	P	LT	9	-	S	S	S	-	Apache 626RR	BR	P	LT	9	N	S	S	S	88788
K-200RR	IB	P	G	8.5	N	R	S	S	88788	Cherokee 628RR	BL	W	T	9	N	R	R	R	-
K-211+RR	BL	W	LT	8.5	N	M	M	M	-	Grant III RR	BL	W	T	9	N	R	R	R	88788
K-212RR	BL	W	LT	8.5	N	M	M	M	88788	Jefferson 630RR	BL	P	LT	9	N	S	S	S	88788
K-223+RR	BR	W	LT	9	N	R	R	R	-	Kennedy 538RR	BL	P	T	9	N	S	S	S	88788
K-2320SCN	BL	M	LT	9	Y	S	S	S	88788	Mars 618RR	BF	W	T	9	Y	S	S	S	-
K-233+RR	BF	P	G	9	-	M	M	M	-	Mohegan 624RR	BL	P	LT	9	N	S	S	S	88788
K-2552	BL	P	LT	8.5	-	R	R	R	-	Munsee IVRR	BF	W	T	9	Y	R	R	R	-
K-255RR	BR	P	LT	8.5	N	S	S	S	-	Shawnee 527RR	BL	W	LT	9	N	S	S	S	88788
K-270RR	BL	W	LT	8.5	-	R	R	S	88788	Sioux IRR	IB	P	G	9	N	R	R	R	-
K-273RR	IB	P	G	9	-	R	R	S	-	Truman 636RR	BL	P	LT	9	N	S	S	S	-
K-277+RR/SCN	IB	P	G	9	N	S	S	S	88788	Washington IXRR	BL	P	LT	9	N	R	R	R	88788
K-287RR/SCN	IB	P	G	9	-	R	R	S	88788	NuTech Seeds, Ames, IA (877-561-9067)									
K-289+RR	BL	W	T	8.5	Y	R	R	R	-	NuTech:									
K-2918SCN	BL	P	LT	8.5	Y	S	S	S	88788	NT-180	BR	W	T	12	N	S	S	S	88788
K-311RR/SCN	BL	P	LT	8.5	Y	R	R	S	88788	NT-193 SCN	BL	P	T	12	N	S	S	S	88788
K-328RR	BL	P	T	9	Y	R	R	S	-	NT-2002 RR	BR	W	T	12	-	R	R	R	88788
K-333RR/SCN	BL	P	G	9	-	S	S	S	88788	NT-201	G	P	LT	12	N	S	S	S	88788
K-355RR/SCN	IB	P	G	9	Y	R	R	R	88788	NT-211	BL	W	LT	12	N	S	S	S	88788
K-373RR/SCN	BL	W	LT	8.5	N	R	R	R	88788	NT-2120 RR	BF	W	LT	12	N	S	S	S	88788
K-3777SCN	IB	P	G	8.5	Y	R	R	S	88788	NT-2202a RR	IB	P	G	12	N	R	S	S	88788
K-389RR/SCN	IB	P	G	8.5	N	R	R	S	88788	NT-2222+ RR/SCN	IB	P	G	12	N	R	R	R	88788
K-399RR/SCN	IB	P	G	9	-	S	S	S	88788	NT-232 SCN	BR	W	T	12	N	S	S	S	88788
KSC/Challenger, Dike, IA (800-712-2721)										NT-2324+ RR/SCN	BR	P	T	12	N	R	R	S	88788
KSC/Challenger:										NT-2330 RR	IB	P	G	12	N	R	R	S	88788
K-180RR	IB	P	G	8.5	N	S	S	S	88788	NT-2333+ RR	BF	P	G	12	N	R	S	S	88788
K-188RR/SCN	BR	P	T	9	N	S	S	S	88788	NT-242 SCN	BR	W	LT	12	N	S	S	S	88788
K-192RR	Y	W	T	9	Y	S	S	S	-	NT-2424 RR/SCN	BL	P	T	12	N	S	S	S	88788
K-213RR/SCN	Y	W	T	9	Y	S	S	S	88788	NT-2440 RR	BL	W	T	12	N	S	S	S	88788
K-225RR	BL	P	LT	8.5	-	S	S	S	-	NT-260	BL	P	T	12	N	S	S	S	88788
K-235RR/SCN	BR	W	LT	8.5	Y	M	M	S	88788	NT-262	BL	P	T	12	N	S	S	S	88788
K-236RR/SCN	BL	P	LT	8.5	-	S	S	S	88788	NT-2626+ RR	BR	P	LT	12	N	S	S	S	88788
K-237RR	BL	P	LT	9	-	S	S	S	88788	NT-266 SCN	BL	P	T	12	N	S	S	S	Peking
K-238RR	BR	P	LT	9	N	S	S	S	88788	NT-282 SCN	IB	P	G	12	Y	S	S	S	88788
K-260RR	IB	P	G	9	N	R	R	R	-	NT-2890+ RR	BL	W	T	12	N	R	R	R	88788
K-266RR/SCN	IB	M	G	8.5	N	S	S	S	88788	NT-2919+ RR/SCN	BL	P	LT	12	N	S	S	S	88788
K-280RR	BL	W	LT	9	Y	R	R	R	88788	NT-2992 RR	BL	P	T	12	N	S	S	S	88788
K-292RR/SCN	IB	P	G	9	Y	S	S	S	88788	NT-303 SCN	IB	W	T	12	N	S	S	S	88788
K-310RR	BL	P	G	9	-	R	R	R	-	NT-3100 RR	BL	P	G	12	N	R	R	R	88788
K-330RR	BL	W	LT	9	N	R	R	R	88788	NT-3322 RR	BL	P	T	12	N	S	S	S	88788
K-341RR/SCN	BL	W	T	9	-	R	R	R	88788	NT-3500 RR	BL	P	T	12	N	R	R	R	88788
K-349RR	IB	P	G	8.5	Y	R	R	S	-	NT-3515 RR/SCN	BL	W	T	12	N	S	S	S	88788
K-380RR/SCN	BF	W	G	8.5	-	S	S	S	88788	NT-3550 RR/SCN	IB	P	G	12	Y	S	S	S	88788
K-397RR/SCN	BL	W	LT	8.5	Y	S	S	S	88788	NT-3636+ RR/SCN	IB	P	G	12	Y	R	R	R	88788
Latham Seed Co., Alexander, IA (641-692-3258)										NT-3666+ RR/SCN	IB	P	G	12	N	R	R	S	88788
Latham:										NT-3737+ RR/SCN	IB	P	G	12	N	R	R	S	88788
497RR	BR	W	LT	9	N	R	R	R	-	NT-3900 RR/SCN	BL	M	LT	12	N	S	S	S	88788
E1930	BL	W	LT	9	N	R	R	R	-	Prairie Brand Seed Co., Story City, IA (515-733-2101)									
E2400	BL	W	LT	9	N	S	S	S	-	Prairie Brand:									
E2922RX	BL	P	T	9	N	S	S	S	CystX	PB-1954RR	BR	P	T	9	N	R	S	S	-
E3454R	BL	P	T	9	Y	R	R	R	-	PB-2141RR	BR	W	T	10	N	R	R	R	-
L1763	M	W	LT	9	N	S	S	S	-	PB-2183NRR	IB	P	G	9	N	R	R	R	88788
L1840	BL	W	LT	9	Y	S	S	S	-	PB-2205RR	BL	P	T	10	N	S	S	S	-
L1935R	BL	W	LT	9	Y	R	R	R	-	PB-2243RR	Y	W	T	10	N	R	R	R	-
L2045R	BL	W	LT	9	Y	R	R	R	-	PB-2265RR	-	-	-	10	N	R	R	R	-
L2336R	BL	M	LT	9	Y	S	S	S	-	PB-2345RR	BF	P	G	10	N	R	S	S	-
L2450R	IB	P	G	9	N	R	R	R	-	PB-2385NRR	BL	P	T	10	N	S	S	S	88788
L2635R	IB	P	G	9	N	R	R	S	-	PB-2443RR	BL	P	T	9	Y	R	R	R	-
										PB-2565RR	IB	P	G	9	N	R	R	S	-

Table 15. Origin and descriptive data for 2005 entries,* *continued.*

Entry	HC	FC	PC	SR	BSR	Phyto Race			SCN Source	Entry	HC	FC	PC	SR	BSR	Phyto Race			SCN Source										
						1	2	3								1	2	3											
Prairie Brand Seed Co.										Thompson Seeds, continued																			
Prairie Brand, continued:										Thompson Seeds:																			
PB-2625RR	BR	P	T	9	N	R	S	S	-	T-1828 RR/SCN	IB	P	G	12	N	R	R	R	88788	T-1888 RR/SCN	BR	P	T	12	N	S	S	S	88788
PB-2643RR	BL	W	T	9	N	R	R	R	-	T-2100 RR	BL	P	LT	12	N	S	S	S	88788	T-2102 RR	BL	P	T	12	N	S	S	S	88788
PB-2745RR	-	-	-	9	N	R	R	R	-	T-2103 RR	BL	P	T	12	Y	R	R	R	88788	T-2112 RR/STS	BF	P	G	12	N	R	R	R	88788
PB-2794NRR	BL	W	T	9	Y	R	R	S	88788	T-2120 RR	BL	M	LT	12	N	R	R	R	88788	T-2122 RR/SCN	BL	W	LT	12	Y	S	S	S	Peking
PB-2994NRR	BL	P	T	9	N	S	S	S	88788	T-2330 RR	M	P	G	12	N	R	R	S	88788	T-2330 RR	M	P	G	12	N	R	R	S	88788
PB-3123RR	BL	P	T	9	N	R	R	S	-	T-2700 RR	BL	M	LT	12	N	R	R	R	88788	T-2711 RR/SCN	BL	W	T	12	Y	R	R	S	88788
PB-3305RR	IB	P	G	10	N	R	R	R	-	T-2727 RR/SCN	BL	W	T	12	N	S	S	S	88788	T-2727 RR/SCN	BL	W	T	12	N	S	S	S	88788
PB-3383NRR	IB	P	G	9	N	R	R	S	88788	T-2990 RR	IB	P	G	12	N	R	R	R	88788	T-2999 RR/SCN	IB	P	G	12	Y	S	S	S	Peking
PB-3585NRR	IB	P	G	10	Y	R	R	R	88788	T-3101 RR	BL	P	T	12	Y	R	R	S	88788	T-3101+ RR	BL	P	T	12	Y	R	R	S	88788
PB-3785NRR	IB	P	G	10	N	R	R	S	88788	T-3232 RR/SCN	IB	W	LT	12	N	R	R	R	88788	T-3232 RR/SCN	IB	W	LT	12	N	R	R	R	88788
PB-3894NRR	BF	W	G	9	N	R	R	S	88788	T-3303 RR	IB	P	G	12	N	R	R	S	88788	T-3303 RR	IB	P	G	12	N	R	R	S	88788
PB-3905RR	BL	P	T	10	N	S	S	S	-	T-3636 RR/SCN	IB	P	G	12	Y	R	R	R	88788	T-3636 RR/SCN	IB	P	G	12	Y	R	R	R	88788
Renk Seed Co., Sun Prairie, WI (608-837-7351)										T-3666 RR/SCN																			
Renk:										T-3737 RR/SCN																			
RS185RR	BR	W	T	9	Y	-	-	-	-	T-3777+ RR	BL	P	T	12	N	S	S	S	88788	T-3777+ RR	BL	P	T	12	N	S	S	S	88788
RS204NRR	IB	P	G	9	-	R	R	R	88788	T-3999+ RR/SCN	BF	W	G	12	N	R	S	S	88788	T-3999+ RR/SCN	BF	W	G	12	N	R	S	S	88788
RS223RR	BR	W	T	9	-	R	R	R	-	T-7193+ RR/SCN	IB	P	G	12	N	R	R	R	88788	T-7193+ RR/SCN	IB	P	G	12	N	R	R	R	88788
RS234RR	BR	W	T	9	-	-	-	-	-	T-7205+ RR	BR	W	T	12	N	R	R	R	88788	T-7205+ RR	BR	W	T	12	N	R	R	R	88788
RS253RR	BR	P	LT	9	-	-	-	-	-	T-7206+ RR	BR	W	T	12	N	R	R	R	88788	T-7206+ RR	BR	W	T	12	N	R	R	R	88788
RS265RR	IB	P	G	9	-	R	R	-	-	Albert Lea Seed House, Albert Lea, MN (507-373-3161)																			
RS272RR	BL	P	LT	9	-	-	-	-	-	Viking:																			
RS295NRR	BL	P	LT	9	-	-	-	-	88788	1908CNRR	BL	P	G	9	N	R	R	R	88788	1908CNRR	BL	P	G	9	N	R	R	R	88788
Renze Hybrids, Inc., Carroll, IA (712-669-3301)										2005RR																			
Renze:										2181CN																			
R2306RR	BF	P	G	9	N	R	S	S	-	2199	BR	W	T	9	Y	-	-	-	-	2199	BR	W	T	9	Y	-	-	-	-
R2314RR	BL	P	T	10	N	S	S	S	-	2255RR	BF	P	G	9	N	R	S	S	-	2255RR	BF	P	G	9	N	R	S	S	-
R2446RR	BL	P	T	10	Y	R	R	R	-	2265	BL	W	LT	9	N	-	-	-	-	2265	BL	W	LT	9	N	-	-	-	-
R2496RRcn	BL	P	T	9	-	S	S	S	88788	2368CNRR	BR	P	LT	9	N	S	S	S	88788	2368CNRR	BR	P	LT	9	N	S	S	S	88788
R2626RR	BL	M	T	10	N	R	R	R	-	*HC = Hilum Color (BL = Black, BR = Brown, BF = Buff, Y = Yellow, G = Gray, IB = Imperfect Black, IY = Imperfect Yellow)																			
R2645RR	IB	P	G	9	N	R	R	S	-	FC = Flower Color (P = Purple, W = White, M = Mixture)																			
R2724RR	BL	W	T	10	N	R	R	R	-	PC = Pubescence Color (T = Tawny, G = Gray, LT = Light Tan, M = Mixture)																			
R2996RRcn	BL	P	T	9	N	S	S	S	88788	SR = Seed Rate, number of seeds planted per foot of row																			
R3115RR	BL	P	T	9	N	R	R	S	-	BSR: Indicates if entry has any known resistance to Brown Stem Rot																			
R3386RRcn	IB	P	G	9	Y	R	R	R	88788	Phyto Race 1,3,4: Indicates if entry has any known resistance to these 3 races of Phytophthora Root Rot																			
R3686RRcn	IB	P	G	9	Y	R	R	R	88788	SCN Source: Indicates PI source of SCN resistance. For IA2068, source is both PI88788 and Hartwig																			
R3726RR	BL	P	T	9	N	S	S	S	-	For the BSR and Phyto columns, "-" indicates information is either not known or was not supplied by the company. In the SCN column it means the entry does not have SCN resistance.																			
Stine Seed Co., Adel, IA (800-362-2510)																													
Stine:																													
1918-4	Y	W	T	9	-	S	S	S	-																				
2032-4	IB	P	G	9	-	R	R	R	88788																				
2116-4	Y	W	T	9	-	R	R	R	-																				
2402-4	BL	P	T	9	-	S	S	S	88788																				
2688-4	BR	P	T	9	-	S	S	S	-																				
2743-4	BL	W	T	9	-	R	R	R	-																				
3012-4	BL	P	T	9	-	S	S	S	88788																				
3532-4	BL	W	T	9	-	R	R	R	88788																				
3600-4	BL	P	T	9	-	S	S	S	-																				
3832-4	BL	P	T	9	-	R	R	R	88788																				
Thompson Seeds, Tech Brand Seeds, Leland, IA (877-561-9067)																													
Tech Brand:																													
T-2222 RR/SCN	IB	P	G	12	N	R	R	R	88788																				
T-2303 RR	BL	P	T	12	Y	R	R	R	88788																				
T-2324 RR/SCN	BR	P	T	12	N	R	R	S	88788																				
T-2333 RR	BF	P	G	12	N	R	S	S	88788																				
T-2400 RR	BL	P	LT	12	N	S	S	S	88788																				
T-2626 RR	BR	P	LT	12	N	R	S	S	88788																				
T-2707 RR	IB	P	G	12	N	R	R	S	88788																				
T-2727 RR/SCN	BL	P	T	12	N	S	S	S	88788																				
T-2890 RR	BL	W	T	12	N	R	R	R	88788																				
T-2919 RR/SCN	BL	P	T	12	N	S	S	S	88788																				
T-7205A RR	BR	W	T	12	N	R	R	R	88788																				
T-7206 RR	BR	W	T	12	N	R	R	R	88788																				

