

2009

**WISCONSIN
SOYBEAN
VARIETY
TEST
RESULTS**

Department of Agronomy
College of Agricultural and Life Science
University of Wisconsin-Madison

Wisconsin Crop Improvement Association



2009 WISCONSIN SOYBEAN VARIETY TEST RESULTS

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S.P. Conley, M. J. Martinka, J. M. Gaska, P. Esker, and N. C. Koval
Departments of Agronomy and Plant Pathology
University of Wisconsin, Madison

2009 Report

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The Wisconsin Soybean Variety Test is conducted each year with the producer's needs in mind. Our objective is to give producers the information to select varieties that will satisfy their specific goals and are most likely to perform best under his/her management practices.

How the Entries were Tested

Seed companies, private breeders, and university research and extension specialists voluntarily submitted any number of entries they wished. Most of these entries are commercially available, but experimental varieties were also tested. Several additional commercial and public cultivars were included for comparison.

Tests were conducted using conventional or reduced tillage practices. The white mold tests were planted at 225,000 seeds/a, while the standard variety tests were planted at 175,000 seeds/a, at row spacings listed in Table 1. Tests were conducted using a randomized complete block design with four replicates. Table 1 also lists the herbicides used for weed control in the conventional and glyphosate tolerant variety trials.

Growing Conditions

Wisconsin soybean growers experienced widely variable weather conditions in 2009. Cooler than normal temperatures coupled with a lack of rainfall in July and August and significant white mold infections still led to a projected statewide average soybean yield of 41 bu/a; up 6 bu/a from 2008.

Soybean planting started late and lagged behind the 5 year average until mid- to late-May. Late planting and cool environmental conditions however did not greatly impact emergence timing or rates.

Temperatures in June, July, and August remained cooler than normal which led to delayed crop development statewide. In many areas of Wisconsin, the 2009 growing season was at or near the coolest on record. From April 1st through November 1st the crop had accumulated 300 less GDU's than the 30 year norm. In relation to the calendar, the soybean crop was approximately 10-14 days behind schedule.

Extremely dry conditions were prevalent across much of Wisconsin in July and August. The dry conditions occurred during late flowering and early grain-fill. The effects of the drought were most noticeable on higher ground and caused significantly decreased yields in some areas.

October was characterized by cooler and wetter than normal weather. This significantly delayed harvest until early November. As of November 8th only 54% of the WI soybean crop had been harvest whereas typically 92% of the crop would be removed. Fortunately dry weather in the first two weeks of November greatly facilitated soybean harvest. Source: www.nass.usda.gov

How Performance was Measured

Yield: Plots were weighed and moisture was determined in the field using electronic equipment on the plot harvester. Yields are reported in bushels (60 pounds/bushel) per acre at 13 percent moisture content.

Lodging: Lodging scores were based on the average erectness of the main stem of plants at maturity. 1 = all plants erect, 2 = slight lodging, 3 = plants lodged at 45° angle, 4 = severe lodging, 5 = all plants flat.

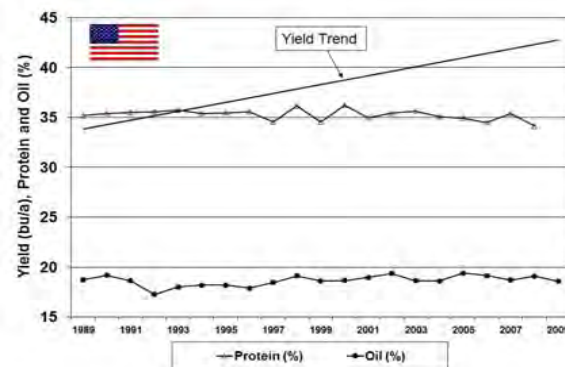
Maturity: An entry was considered mature when at least 90 percent of the pods had turned their mature color. Seven to ten days of drying weather are generally required before soybeans are ready to combine. Variety performance is presented by originator/brand, and then from earliest to latest based on the company supplied relative maturity of the variety.

Protein and Oil

Seed samples from all varieties grown in all locations were collected and analyzed using a near infrared transmittance (NIRT) grain analyzer to determine grain composition. Our goal in providing this information is to increase soybean value transparency so producers can consider the protein and oil content of varieties planted as well as the yield. In 2009, soybeans grown across the US averaged 35.3% protein and 18.6% oil. (www.ussoyexports.org)

Wisconsin grown soybean quality was slightly lower than US averages (34.4% protein and 18.3% oil). The factor that influences protein the most that is under control of a producer is variety selection. Data from the Wisconsin Soybean Variety Tests shows that proper variety selection can yield 200 more pounds per acre of protein and oil without compromising grain yield.

Summary of Yield and Quality Data for US Soybeans



Phytophthora Root Rot

There are many races of Phytophthora. Resistance genes are incorporated into varieties (see Table 13) to provide complete or partial resistance to this fungus are as follows:

Gene	Races
Rps1-a	1, 2, 10, 11, 13-18, 24
Rps1-b	1, 3-9, 13-15, 17, 18, 21, 22
Rps1-c	1-3, 6-11, 13, 15, 17, 21, 23, 24
Rps1-k	1-11, 13-15, 17, 18, 22, 24
Rps3	1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25
Rps4	1-4, 10, 12, 16, 18-21, 25
Rps6	1-4, 10, 12, 14-16, 18-21, 25

There are several races of Phytophthora in Wisconsin, thus selection of soybean varieties with the appropriate resistance gene is paramount for its control. Race 3 is the predominant form of Phytophthora in Wisconsin soils. Thus, the long-used Rps1-a gene is not providing protection 95% of the time. Race 4 occurs in 25% of Wisconsin soybean fields. Growers have an excellent chance of controlling race 3 by planting varieties with the Rps1-c or Rps1-k gene. The Rps1-k gene provides complete resistance against most races of Phytophthora found in Wisconsin. That being said, race 25 has been found here in

Wisconsin and the Rps 1-k gene does not protect against that race. Many varieties express tolerance (partial resistance) to all races of Phytophthora, but varieties with this form of resistance are vulnerable in the early seedling phase of Phytophthora. Certain fungicides applied to seed can provide a window of protection to tolerant varieties during emergence. Variety tolerance ratings are not reported and can be supplied by seed industry representatives. The information shown in Table 13 is based on information supplied by public breeders or companies that are releasing or marketing the variety.

White Mold (Sclerotinia)

Sclerotinia infects stems at flowering, but symptoms are delayed until early pod formation and plant death is evident as the crop progresses towards maturity. Sclerotinia causes white mold throughout Wisconsin. White mold was a widespread and serious problem in 2009. The reaction of soybean varieties to the white mold pathogen is expressed as plant mortality and reduced grain yield in the presence of high white mold pressure. Varieties that express 25% or less plant mortality generally yield well in the presence of white mold. Results of the trial are presented in Tables 6 and 7.

Soybean Cyst Nematode (SCN)

SCN has gained significant importance as a yield-limiting pathogen in Wisconsin. A major concern is that growers are not aware of its presence on their farms. SCN can cause severe stunting and chlorosis of soybean plants, but these symptoms are not common. SCN can cause major yield loss without obvious symptoms. The most common symptom caused by SCN is a yield decline over years even though top crop management practices are in place. Significant advances have been made to

improve varieties for resistance to SCN. Results of the 2009 SCN variety trial are presented in Table 8. Yield performance in the presence of SCN is an excellent means to select varieties for SCN infested fields. Watch for white mold when SCN resistant varieties are planted for the first time in SCN infested fields. SCN can suppress dense crop canopies required for white mold to develop. Many SCN resistant varieties are also resistant to brown stem rot. The Reproductive Factor shown in Table 8 is a measurement of the ability of SCN to reproduce on a given variety. A number below 1 indicates that the variety suppressed SCN reproduction during the season and a number above 1 indicates that SCN were able to reproduce and increase in population on that variety.

Brown Stem Rot (BSR)

BSR is a major disease of soybean in Wisconsin. BSR was prevalent in some areas of the state in 2009. External symptoms of BSR are not observed until after pod development begins. There are examples where fields have both SDS and BSR, which can make diagnoses difficult, since foliar symptoms are similar. There are two pathotypes of the pathogen that cause BSR. The defoliating pathotype causes more severe internal stem discoloration and defoliation of leaves, compared with the nondefoliating pathotype that only causes internal stem symptoms. Select resistant varieties if BSR has been a problem in the field.

Emerging Soybean Diseases

Sudden death syndrome (SDS) and stem canker (SC) were observed in 2009. The incidence and severity of SDS was higher than in previous years. Both diseases are caused by fungi, but have different

symptoms and symptom patterns. SDS is frequently associated with the soybean cyst nematode. Leaves suddenly die during early pod development and fall from plants. Symptoms of SC appear during mid pod development and leaves wilt and die but stay attached to plants. Brown lesions appear on stems in the lower quarter of the plant. Leaf symptoms may resemble white mold but the white cottony mold will not be observed nor will the black sclerotia of the white mold pathogen. Crop rotation appears to be the best control at this time. Information is not available on individual soybean variety susceptibility to SDS and SC.

Soybean Viruses and Insects

Soybean aphid populations were variable in Wisconsin in 2009. Some regions within the state reached economic threshold levels that required treatment. The bean leaf beetle was observed in low numbers in the southern counties. Soybean growers and agronomic advisors need to carefully monitor early season bean leaf beetle populations again in 2010. Plants infected by viruses commonly produce discolored seed, which is another symptom to use in assessing the virus situation in a specific field. Late season bean leaf beetle infestation can cause extensive feeding injury to pods, thus combining with BPMV to reduce seed yield and quality. Evidence is increasing that soybean varieties differ in the ability to yield in the presence of insects and associated viruses.

Soybean Rust

Asian Soybean Rust was not confirmed in Wisconsin in 2009. Soybean rust was mainly confined to the southeastern US, but late in the season was also found as far north as S. Illinois. To date, despite intensive screening by USDA in the last few years, none of the soybean varieties currently grown in the US are completely resistant to soybean rust. Spores of the soybean rust pathogen will have to be reintroduced each year from southern sources in order for rust to develop. Thus, crop rotation will not be a management option.

What the Results Mean

The performance of a variety may vary from year to year, even at the same location. Multiple tests over two or more years more accurately predict the variety performance. When selecting a variety, consider maturity, herbicide tolerance, disease resistance, and grain composition in addition to yield.

Small differences in yield may not be significant. The yield of any two entries may differ because of chance factors (such as differences in fertility, moisture availability and diseases) even though the two entries do not have inherently different yielding abilities. As an aid in determining true differences in yield, the Least Significant Difference (LSD) statistic is used. If the difference between varieties is greater than the tabulated LSD value, then the entries are said to be "significantly different." The probability of a mean difference being greater than the LSD by chance is 1 out of 10 for the 0.10 LSD value.

Authors: S. Conley is an Associate Professor of Agronomy, M.J. Martinka is Program Manager in Agronomy, J.M. Gaska is Outreach Specialist in Agronomy, P. Esker is Assistant Professor of Plant Pathology, and N. C. Koval is an Assistant Researcher in Plant Pathology, College of Agricultural and Life Sciences, University of Wisconsin-Madison. S. Conley and P. Esker also hold appointments with University of Wisconsin-Extension, Cooperative Extension.

This publication is available from your Wisconsin county Extension office and from the Department of Agronomy, 1575 Linden Dr., Madison, Wisconsin 53706. Phone (608) 262-1390. The Wisconsin Soybean Variety Test results can also be viewed at and downloaded from the UW Soybean Program website at <http://www.coolbean.info>. Further disease information can also be obtained at <http://www.plantpath.wisc.edu/soyhealth/index.htm>.

Wisconsin Crop Improvement Association provides financial support for the Wisconsin soybean variety tests. <http://www.wisc.edu/wcia>

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TABLE 1. GENERAL INFORMATION ON THE 2009 SOYBEAN TESTS

Location	Cooperators	Row Spacing	Soil Type	Soil Tests ¹			Pesticide Program ²	Planting Date	Harvest Date	Average Yield		
										2009	2008	08-09
Arlington RR Variety Trial (VT)	John Gaska Paul Bergum	15"	Silt loam	pH: 6.6 P: 75	OM: 3.6 K: 321	PPI: Dul, Pur Post: Rnd		6-May	11-Nov	66	74	70
Arlington Conventional VT	John Gaska Paul Bergum	15"	Silt loam	pH: 6.9 P: 89	OM: 4.2 K: 338	Pre: Dul, AuthF Post: Har, Asr		6-May	3-Nov	62	65	64
Arlington Late White Mold VT	John Gaska Paul Bergum	7.5"	Silt loam Irrigated	pH: 7.2 P: 51	OM: 2.9 K: 226	PPI: Dul, Pur Post: CN- Har : RR-Rnd		22-May	19-Oct	47	70	59
Chippewa Falls Variety Trial	Jerry Clark	15"	Silt loam	pH: 6.3 P: 28	OM: 2.0 K: 88	Pre: None Post: Rnd, Pur		14-May	2-Nov	45	39	42
Fond du Lac Variety Trial	Ed Montsma Mike Rankin	15"	Silt loam	pH: 6.5 P: 15	OM: 5.3 K: 94	Pre: Valor, Frft Post: Rnd, Pur		20-May	6-Nov	52	54	53
Galesville Variety Trial	Ken Congdon John Zander	15"	Silt loam	pH: 5.8 P: 19	OM: 3.7 K: 146	Pre: Valor, Frft Post: Rnd(2), Asr		11-May	3-Nov	52	68	60
East Troy SCN Variety Trial	Bob David	15"	Sandy Loam	pH: 7.2 P: 32	OM: 5.7 K: 96	Pre: Dul, AuthF Post: Rnd		19-May	10-Nov	64	45	55
Hancock Variety Trial	Jolyn Rasmussen	15"	Sand Irrigated	pH: 6.6 P: 70	OM: 0.7 K: 105	Pre: None Post: Rnd, Pst		7-May	5-Nov	56	72	64
Hancock SCN Variety Trial	Jolyn Rasmussen	15"	Sand Irrigated	pH: 6.9 P: 53	OM: 0.6 K: 99	Pre: None Post: Rnd, Pst		7-May	5-Nov	65	33	49
Janesville Variety Trial	Jim Stute	15"	Silt loam	pH: 6.9 P: 48	OM: 3.7 K: 170	Pre: Valor, Frft Post: Rnd(2), Asr		18-May	19-Oct	71	65	68
Lancaster RR Variety Trial	Tim Wood	15"	Silt loam	pH: 7.2 P: 36	OM: 2.3 K: 104	PPI: Pur, Prw, Snc Post: Rnd		19-May	7-Nov	50	55	53
Lancaster Conventional VT	Tim Wood	15"	Silt loam	pH: 7.2 P: 36	OM: 2.3 K: 104	PPI: Pur, Prw, Snc Post: Frft		19-May	7-Nov	39	46	43
Marshfield RR Variety Trial	Mike Bertram	15"	Silt loam	pH: 7.0 P: 36	OM: 2.9 K: 98	PPI: Frft, Dul Post: Rnd		12-May	6-Nov	51	37	44
Marshfield Conventional VT	Mike Bertram	15"	Silt loam	pH: 7.0 P: 36	OM: 2.9 K: 98	PPI: Frft, Dul Post: Raptor		12-May	6-Nov	49	-	-
Marshfield Early White Mold VT	Mike Bertram	7.5"	Silt loam	pH: 6.7 P: 54	OM: 2.7 K: 154	PPI: Frft, Dul Post: Rnd		12-May	11-Nov	47	43	45
Seymour Variety Trial	Mike Maass Kevin Jarek	15"	Clay loam	pH: 7.5 P: 16	OM: 2.7 K: 67	Pre: None Post: Rnd, Pur		21-May	9-Nov	55	52	54
Spooner Dry Land VT	Phil Holman	7"	Silt Loam	pH: 6.0 P: 36	OM: 2.5 K: 127	Pre: None Post: Rnd		20-May	28-Oct	39	20	30
Spooner Irrigated VT	Phil Holman	7"	Sandy Loam	pH: 6.0 P: 120	OM: 1.8 K: 128	Pre: None Post: Rnd		20-May	19-Oct	43	46	45
Sturgeon Bay Variety Trial	Dick Weidman	15"	Silt Loam	pH: 6.6 P: 49	OM: 3.4 K: 115	Pre: None Post: Rnd		20-May	9-Nov	47	36	42

¹ OM = Organic Matter in %; P= ppm of Phosphorus and K = ppm of Potassium.

² Pesticide Abbreviations: CN= Conventional, RR= Tolerance to glyphosate herbicide, AuthF= Authority First, Asr= Assure, Dul= Dual II Magnum, Frft= Firstrate, Har= Harmony, Pst=Poast Plus, Pur= Pursuit, Prw= Prowl, Rptr= Raptor, Rnd= Roundup, Snc= Sencor.

TABLE 2. SOUTHERN REGION ROUNDUP READY SOYBEAN TEST (Page 1 of 3)
Performance Commercial Entries at Three Southern Wisconsin Locations.
ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009					2008 3-Test Average					6 -Test
			Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	ARL		JAN		LAN ²	Yield	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield
									Yield	WM ¹	Yield	WM ¹							
			bu/A	1-5	date	%	%	lb/A	bu/A	%	bu/A	%	bu/A	bu/A	date	%	%	lb/A	bu/A
Asgrow	AG 2002	2.0	* 63	1.2	25-Sep	34.7	18.8	2027	* 70	11	* 75	8	45	63	22-Sep	33.9	19.3	1999	63
Asgrow	AG 2108	2.1	* 64	1.0	23-Sep	34.9	18.8	2072	* 73	1	71	13	49	65	23-Sep	32.8	19.5	2040	65
Asgrow	RY 2409	2.4	* 64	1.1	25-Sep	34.2	18.8	2031	* 74	11	66	22	51						
Asgrow	AG 2521V	2.5	62	1.1	30-Sep	34.6	19.2	1997	66	1	71	4	49						
Asgrow	AG 2606	2.6	60	1.6	29-Sep	37.1	17.2	1946	57	23	73	8	49	65	27-Sep	35.7	17.6	2073	62
Asgrow	AG 2939	2.9	* 67	1.3	7-Oct	35.0	18.5	2158	* 68	16	70	23	* 62						
Channel	2351R Brand	2.3	61	1.3	5-Oct	35.3	18.4	1966	62	8	69	9	53						
Channel	2400R2 Brand	2.4	* 63	1.1	2-Oct	35.2	18.4	2032	67	13	72	10	51						
Channel	2551R Brand	2.5	60	1.0	1-Oct	34.0	18.7	1903	61	10	67	19	52						
Croplan	R2C 2139	2.1	61	1.1	24-Sep	34.1	19.2	1965	* 73	3	68	3	43						
Croplan	RT 2127	2.1	59	1.1	20-Sep	33.9	19.1	1901	* 71	3	62	1	45						
Croplan	RC 2539	2.5	* 64	1.0	28-Sep	34.3	18.6	2050	67	6	73	13	53						
Croplan	RT 2588	2.5	* 67	1.0	3-Oct	34.0	18.9	2117	* 72	0	72	4	56						
Croplan	R2C 2878	2.8	62	1.8	4-Oct	33.6	18.8	1955	64	19	71	20	51						
Dairyland	DSR-2200/RR	2.2	61	1.3	4-Oct	35.1	18.5	1955	59	3	74	11	49	* 68	27-Sep	33.8	19.0	2145	64
Dairyland	DSR-234/RR	2.3	62	1.1	28-Sep	35.4	18.2	1992	65	1	69	9	52						
Dairyland	DSR-2525/RR-AP	2.5	57	1.5	1-Oct	33.8	18.8	1794	59	9	65	10	46						
Dairyland	DSR-2560/RR	2.5	61	1.5	4-Oct	35.3	18.3	1980	60	14	* 75	6	49	* 68	27-Sep	33.9	18.9	2157	65
Dairyland	DST 25-003/R2Y	2.5	62	1.4	29-Sep	34.0	17.7	1912	60	4	70	6	55						
Dairyland	DSR-2770/RR	2.7	* 66	1.5	6-Oct	35.8	18.2	2136	61	16	* 78	4	* 59	* 70	30-Sep	34.2	18.8	2213	* 68
Dairyland	DSR-2930/R2Y	2.9	* 66	1.8	6-Oct	35.2	17.5	2086	65	21	* 80	11	52						
Dyna-Gro	34RY24	2.4	* 64	1.3	1-Oct	35.3	18.4	2050	* 69	10	71	6	51						
Dyna-Gro	V 25N9RR	2.5	62	1.1	2-Oct	35.7	17.8	1990	* 69	5	71	6	45						
FS HiSOY	HS 19A90	1.9	59	1.1	20-Sep	35.7	18.4	1904	67	9	69	15	40						
FS HiSOY	HS 20R80	2.0	* 63	1.3	22-Sep	35.1	18.7	2019	* 70	4	70	8	48	65	25-Sep	33.3	19.6	2054	64
FS HiSOY	HS 22A90	2.2	61	1.2	21-Sep	34.4	19.2	1957	* 70	5	71	16	43						
FS HiSOY	HS 22R70	2.2	61	1.3	24-Sep	33.6	19.4	1958	* 68	8	67	6	49	65	24-Sep	32.1	19.8	2036	63
FS HiSOY	HS 23R71	2.3	* 64	1.3	7-Oct	35.3	18.3	2061	65	8	72	11	56	64	25-Sep	33.8	19.0	2012	64
FS HiSOY	HS 24R91	2.4	* 67	1.6	6-Oct	35.3	18.3	2160	66	9	* 79	3	57						
FS HiSOY	HS 24A90	2.5	* 66	1.3	30-Sep	35.1	18.5	2123	* 70	11	74	15	54						

Continued

TABLE 2. SOUTHERN REGION ROUNDUP READY SOYBEAN TEST (Page 2 of 3)
Performance Commercial Entries at Three Southern Wisconsin Locations.
ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER

Originator/Brand	Entry	Maturity Group	2009 3-Test Average							2009					2008 3-Test Average					6 -Test
			Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	ARL		JAN		LAN ²	Yield	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield	
									Yield	WM ¹	Yield	WM ¹								
			bu/A	1-5	date	%	%	lb/A	bu/A	%	bu/A	%	bu/A	bu/A	date	%	%	lb/A	bu/A	
FS HiSOY	HS 25R80	2.5	* 63	1.0	3-Oct	33.9	18.8	2011	66	5	70	5	53	63	24-Sep	32.6	19.8	1989	63	
G2 Genetics	7208	2.0	62	1.0	22-Sep	34.4	18.9	1962	* 69	6	71	5	45							
G2 Genetics	7212	2.1	* 64	1.0	25-Sep	33.7	19.4	2032	* 72	3	71	23	48							
G2 Genetics	7226	2.2	62	1.0	27-Sep	34.5	19.2	1984	65	10	72	9	48							
G2 Genetics	6247	2.4	60	1.9	2-Oct	34.8	18.4	1912	60	11	69	20	51							
G2 Genetics	7249	2.4	* 64	1.3	30-Sep	34.5	18.6	2044	66	10	* 75	8	52	65	28-Sep	32.6	19.1	2024	63	
G2 Genetics	7255	2.5	60	1.6	7-Oct	34.8	18.1	1928	60	13	70	21	51							
G2 Genetics	7288	2.8	* 64	1.4	5-Oct	34.8	18.9	2047	65	3	73	5	53							65
Hughes	289 R2	2.2	* 63	1.0	2-Oct	36.1	17.7	2020	* 69	5	74	6	45	65	23-Sep	34.6	18.7	2090	65	
Hughes	454 RR	2.4	* 65	1.8	5-Oct	35.5	18.1	2089	60	8	* 79	14	55							
Hughes	555 RR	2.5	* 65	1.1	1-Oct	35.9	17.7	2088	* 69	3	74	16	51							
Hughes	721 R2	2.7	62	1.3	6-Oct	35.6	17.6	1970	62	25	70	15	53							
Hughes	777 RR	2.7	* 68	1.5	7-Oct	36.3	17.1	2181	* 70	16	74	25	* 60							* 69
Kaltenberg	KB 2409RRKK	2.4	61	1.5	2-Oct	35.3	18.5	1962	64	19	67	5	51	62	24-Sep	33.8	19.3	1974	61	
Kaltenberg	KB 249RRKK	2.4	61	1.2	3-Oct	36.0	17.6	1955	62	15	71	0	49	64	26-Sep	34.3	18.6	2019	62	
Kaltenberg	KB 2510RRKK	2.5	* 63	1.8	5-Oct	35.2	18.4	2019	58	9	* 76	10	54	67	27-Sep	32.8	19.2	2076	65	
Kaltenberg	KB 2609RRKK	2.6	* 63	1.8	7-Oct	34.1	18.9	1994	* 68	11	71	14	49							
Kruger	K-170 RR/SCN	1.7	57	1.5	28-Sep	36.1	17.9	1841	61	6	70	14	39							
Kruger	K2-1901	1.9	58	1.1	20-Sep	34.9	18.6	1845	64	18	71	9	38							
Kruger	K-201RR/SCN	2.0	* 63	1.3	23-Sep	34.9	18.9	2038	* 72	4	72	13	45							62
Kruger	K2-2101	2.1	61	1.1	22-Sep	34.3	19.2	1968	* 71	8	71	0	42	67	27-Sep	33.9	19.2	2145	64	
Kruger	K2X 21A9	2.1	62	1.2	21-Sep	35.5	18.0	2006	* 69	5	67	5	51							
Kruger	K-239RR	2.3	61	1.3	3-Oct	35.2	18.4	1976	58	24	72	18	54							
Kruger	K2-2601	2.4	* 64	1.1	2-Oct	35.2	18.4	2048	* 71	15	71	19	49							
Kruger	K-249RR/SCN	2.4	* 66	1.3	2-Oct	36.2	17.7	2118	* 72	9	73	3	52							
Kruger	K2-2501	2.5	* 64	1.6	5-Oct	35.3	17.7	2044	66	11	* 75	3	52	68	21-Sep	31.8	20.0	2102	65	
Kruger	K-285 RR/SCN	2.8	62	1.9	8-Oct	33.4	18.6	1925	59	33	72	23	54							
NK Brand	S21-N6 Brand	2.1	62	1.2	24-Sep	34.0	19.3	1986	* 72	6	71	10	44							
NK Brand	S25-T7 Brand	2.5	* 63	1.3	7-Oct	34.8	18.2	2019	* 68	9	74	5	48							
NK Brand	S27-C4 Brand	2.7	* 67	1.2	3-Oct	35.2	18.3	2151	67	4	74	3	* 60							64

Continued

TABLE 2. SOUTHERN REGION ROUNDUP READY SOYBEAN TEST (Page 3 of 3)
Performance Commercial Entries at Three Southern Wisconsin Locations.
ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009					2008 3-Test Average					6 -Test
			Yield	Lodging	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	ARL		JAN		LAN ²	Yield	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	Ave. Yield
									bu/A	%	bu/A	%							
			bu/A	1-5	date	%	%	lb/A	bu/A	%	bu/A	%	bu/A	bu/A	date	%	%	lb/A	bu/A
NuTech	7201	2.0	* 64	1.0	20-Sep	34.0	19.5	2047	* 72	3	69	8	50	* 70	22-Sep	31.4	20.3	2172	* 67
NuTech	6211	2.1	59	1.0	20-Sep	35.4	18.5	1885	65	8	68	4	43	* 69	19-Sep	34.6	19.0	2198	64
NuTech	6224	2.2	* 65	1.3	5-Oct	35.1	18.5	2072	61	15	* 77	16	56						
NuTech	7222	2.2	* 64	1.1	23-Sep	33.7	19.5	2028	* 74	13	70	20	47						
NuTech	2324+RN	2.3	62	1.1	26-Sep	34.8	19.0	2001	* 70	11	66	23	50	67	23-Sep	33.4	19.6	2125	65
NuTech	6244	2.4	* 64	1.0	3-Oct	34.1	18.8	2018	65	11	70	13	56						
NuTech	7251	2.5	* 65	1.3	29-Sep	36.2	17.7	2093	* 71	13	73	2	50						
NuTech	7269	2.6	* 65	1.3	4-Oct	33.9	19.2	2050	64	3	* 75	0	55						
NuTech	2660RN	2.6	* 66	1.1	3-Oct	33.9	18.7	2090	* 69	13	70	9	* 59	* 72	27-Sep	32.0	19.1	2261	* 69
NuTech	7274	2.7	* 65	1.0	2-Oct	34.2	18.7	2062	* 68	6	72	18	55	* 69	25-Sep	32.3	19.0	2128	* 67
NuTech	6281	2.8	* 66	1.7	9-Oct	36.0	18.0	2139	67	4	* 76	5	55	* 68	27-Sep	34.2	18.6	2166	* 67
O'Brien	O'Soy 250 RR	2.4	62	1.6	6-Oct	35.2	18.3	1988	61	18	* 75	5	50						
Pioneer Brand	91Y80	1.8	60	1.2	20-Sep	34.9	18.8	1945	* 71	6	67	0	43						
Pioneer Brand	91Y90	1.9	61	1.0	23-Sep	34.9	18.2	1935	* 68	8	66	5	48						
Pioneer Brand	92Y10	2.1	61	1.1	25-Sep	35.4	18.2	1983	67	11	69	18	48						
Pioneer Brand	92Y20	2.2	56	1.2	19-Sep	33.8	19.5	1810	59	3	69	6	41						
Pioneer Brand	92Y30	2.3	* 64	1.0	1-Oct	34.6	19.0	2069	* 71	5	71	10	51	66	24-Sep	32.0	20.1	2123	65
Pioneer Brand	92Y80	2.8	* 67	1.2	3-Oct	35.9	18.7	2199	* 74	8	74	8	53	* 68	30-Sep	34.8	18.9	2202	* 68
Renk	RS 259NRR	2.5	* 64	1.1	30-Sep	35.8	17.7	2048	67	9	74	10	50	* 68	25-Sep	35.1	18.5	2196	66
Renk	RS 270NR2	2.7	59	1.7	30-Sep	35.6	17.6	1889	55	37	70	10	53						
Renk	RS 277NRR	2.7	* 68	1.1	8-Oct	34.1	18.4	2149	* 71	1	74	1	* 60	* 73	1-Oct	32.0	18.9	2239	* 71
Mean			63	1.3	30-Sep	34.9	18.5	2011	66	10	71	10	50	65	24-Sep	33.4	19.2	2044	65
LSD(0.10)			5	0.4	4	0.5	0.3	189	6	9	5	14	4	5	3	0.6	0.4	161	4

* Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

¹ WM = White Mold data is expressed as a percent of diseased plants.

² Lancaster site had severe hail on July 24th which affected yield.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 3. CENTRAL REGION ROUNDUP READY SOYBEAN TEST (Page 1 of 3)

Performance of Commercial Entries at Three Central Wisconsin Locations.

FON = FOND DU LAC, GAL = GALESVILLE, HAN = HANCOCK

		Maturity Group	2009 3-Test Average							2009					2008 3-Test Average						6-Test
Originator/Brand	Entry		Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	FON		GAL	HAN		Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield	
									bu/A	%		bu/A	%								bu/A
			bu/A	1-5	date	%	%	lb/A	bu/A	%	bu/A	bu/A	%	bu/A	1-5	date	%	%	lb/A	bu/A	
Asgrow	AG 1102	1.1	53	1.3	20-Sep	34.2	18.4	1667	53	9	45	61	25	63	2.1	14-Sep	33.0	19.0	1955	58	
Asgrow	AG 1403	1.4	50	1.0	20-Sep	34.6	18.8	1599	* 56	6	48	46	26	* 69	1.2	14-Sep	33.3	19.0	2128	* 60	
Asgrow	AG 1506	1.5	53	1.1	21-Sep	34.7	19.3	1730	47	10	* 55	58	20								
Asgrow	RY 1709	1.7	* 54	1.2	24-Sep	35.0	18.8	1742	* 55	14	50	57	13								
Asgrow	AG 2002	2.0	* 56	1.1	26-Sep	35.1	18.5	1809	49	16	* 57	63	29	65	1.6	23-Sep	34.7	18.5	2070	* 61	
Asgrow	AG 2108	2.1	* 54	1.2	27-Sep	34.8	18.4	1731	52	8	* 53	58	28	* 67	1.2	23-Sep	33.6	19.0	2132	* 61	
Asgrow	RY 2409	2.4	* 59	1.0	28-Sep	34.7	18.5	1874	* 54	10	* 57	* 65	20								
Channel	XPR 19-09 Brand	1.9	49	1.2	21-Sep	36.3	17.7	1575	52	5	50	45	36								
Channel	2200R2 Brand	2.2	* 57	1.0	30-Sep	34.3	18.8	1822	53	4	* 53	* 65	13								
Croplan	RT 1992	1.9	* 57	1.0	24-Sep	34.1	19.5	1814	* 54	13	* 56	60	14	64	1.3	18-Sep	32.7	19.3	2012	* 61	
Croplan	RC 2068	2.0	51	1.0	28-Sep	34.9	18.9	1654	48	9	* 53	53	25								
Croplan	RT 2092	2.0	* 54	1.0	25-Sep	34.1	19.2	1733	49	10	* 55	59	11	* 68	1.3	20-Sep	33.1	19.1	2139	* 61	
Croplan	R2C 2139	2.1	* 58	1.1	28-Sep	34.7	18.7	1848	* 54	4	* 56	63	14								
Dahlco	DS 8170 RR	1.7	49	1.3	28-Sep	36.1	17.5	1569	49	3	47	51	19	* 67	1.5	21-Sep	35.3	18.1	2155	58	
Dahlco	DS 8190 RR	1.9	* 54	1.2	29-Sep	34.9	18.3	1707	53	13	* 58	50	25	65	1.5	21-Sep	32.7	19.5	2029	* 59	
Dahlco	DS 8210 RR	2.1	51	1.0	21-Sep	34.9	18.6	1632	52	1	50	50	15	64	1.3	20-Sep	33.6	19.0	2009	57	
Dahlco	DS 4230 RR	2.3	53	1.3	29-Sep	36.2	17.5	1703	53	5	* 55	50	15								
Dairyland	DSR-1423/RRSTS	1.4	53	1.6	18-Sep	34.5	18.8	1706	52	16	50	58	18								
Dairyland	DSR-1807/R2Y	1.8	53	1.2	26-Sep	35.9	17.7	1684	50	9	* 53	55	20								
Dairyland	DSR-2132/R2Y	2.1	* 54	1.2	28-Sep	35.5	17.9	1732	51	16	* 57	54	18								
Dyna-Gro	V 20N8RR	2.0	51	1.0	25-Sep	33.9	19.4	1639	52	10	44	58	13								
Dyna-Gro	38G23	2.3	52	1.0	29-Sep	33.2	19.6	1648	52	3	45	59	9	65	1.5	25-Sep	32.7	19.1	2039	* 59	
FS HiSOY	HS 19A90	1.9	53	1.1	25-Sep	36.1	18.3	1703	53	9	51	54	30								
FS HiSOY	HS 20R80	2.0	* 55	1.2	27-Sep	35.5	18.3	1757	52	11	* 54	58	30	* 66	1.4	24-Sep	34.5	18.6	2115	* 61	
FS HiSOY	HS 22R70	2.2	52	1.0	27-Sep	33.7	19.4	1660	50	6	44	62	16	* 66	1.3	24-Sep	33.0	19.1	2073	* 59	
G2 Genetics	6159	1.5	51	1.1	17-Sep	35.0	19.1	1647	48	2	50	55	16								
G2 Genetics	7186	1.8	50	1.0	23-Sep	35.1	19.0	1611	49	0	45	55	10								
G2 Genetics	7208	2.0	* 58	1.0	27-Sep	34.5	18.8	1864	53	16	50	* 71	15								
G2 Genetics	7212	2.1	51	1.2	27-Sep	33.7	19.4	1629	49	4	44	61	20								
G2 Genetics	7226	2.2	* 54	1.2	1-Oct	35.2	18.6	1753	50	5	51	62	13	* 69	1.4	25-Sep	33.8	19.4	2211	* 62	

Continued

TABLE 3. CENTRAL REGION ROUNDUP READY SOYBEAN TEST (Page 2 of 3)

Performance of Commercial Entries at Three Central Wisconsin Locations.

FON = FOND DU LAC, GAL = GALESVILLE, HAN = HANCOCK

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009					2008 3-Test Average						6-Test
			Yield	Lodging	Maturity	Protein	Oil	Protein	FON		GAL	HAN		Yield	Lodging	Maturity	Protein	Oil	Protein	Ave.
			bu/A	1-5	date	%	%	lb/A	Yield WM ¹	%	bu/A	Yield WM ¹	%	bu/A	1-5	date	%	%	lb/A	Yield
G2 Genetics	7229	2.2	* 54	1.2	27-Sep	35.4	18.1	1568	51	9	52	60	25							
G2 Genetics	6247	2.4	50	1.4	3-Oct	35.7	17.7	1597	48	18	* 57	45	35							
Jung	EX 1192 RR2	1.9	52	1.1	22-Sep	36.4	17.5	1671	49	4	* 53	53	24							
Jung	1225 RR2	2.2	* 58	1.1	25-Sep	34.7	18.7	1872	* 57	4	* 60	58	24							
Jung	1248 RR2	2.4	* 54	1.1	28-Sep	35.6	18.0	1720	* 54	5	* 55	52	30							
Kaltenberg	KB 1809RRKK	1.8	53	1.0	26-Sep	34.2	19.1	1690	51	4	51	57	11	65	1.1	21-Sep	34.3	18.7	2058	* 59
Kaltenberg	KB 2010RRKK	2.0	53	1.2	21-Sep	35.4	18.4	1689	52	10	50	56	26							
Kaltenberg	KB 226RRKK	2.2	51	1.1	28-Sep	35.6	17.6	1649	50	9	* 55	49	19	* 67	1.4	27-Sep	34.8	18.5	2141	* 59
Kaltenberg	KB 2309RRKK	2.3	* 55	1.3	30-Sep	35.0	17.9	1753	* 54	4	* 54	57	16							
Kruger	K2X 11A9	1.1	52	1.0	20-Sep	35.4	18.4	1674	* 55	4	* 54	46	15							
Kruger	K2X 11B9	1.1	* 57	1.1	20-Sep	34.9	18.5	1813	52	4	* 56	62	5							
Kruger	K2X 14A9	1.4	52	1.3	21-Sep	34.9	18.4	1676	* 54	9	50	53	26							
Kruger	K2X 15A9	1.5	52	1.2	21-Sep	35.2	18.4	1675	52	9	50	54	30							
Kruger	K2X 15B9	1.5	* 56	1.1	21-Sep	36.6	18.1	1848	* 58	9	* 53	57	13							
Kruger	K2X 15C9	1.5	* 55	1.2	22-Sep	36.6	18.1	1780	* 56	6	50	58	19							
Kruger	K-163RR	1.6	* 54	1.0	19-Sep	34.5	18.9	1744	* 55	9	50	58	18	62	1.3	19-Sep	33.6	18.8	1948	58
Kruger	K2X 16A9	1.6	* 56	1.0	25-Sep	35.3	18.8	1834	* 58	3	51	60	7							
Kruger	K-189RR/SCN	1.8	50	1.0	24-Sep	35.5	18.6	1635	49	4	42	60	14	62	1.3	22-Sep	34.5	18.7	1988	56
Kruger	K2-1901	1.9	* 55	1.0	24-Sep	35.2	18.4	1758	* 60	6	52	52	38							
Kruger	K-201RR/SCN	2.0	* 58	1.0	26-Sep	35.2	18.6	1859	* 57	8	* 56	60	23	* 66	1.8	22-Sep	34.8	18.9	2135	* 62
Kruger	K2-2101	2.1	* 57	1.1	26-Sep	34.7	18.7	1822	* 54	4	* 58	59	19							
Kruger	K2X 21A9	2.1	* 55	1.0	26-Sep	36.3	17.8	1792	* 54	13	* 55	56	23							
NK Brand	S17-B5 Brand	1.7	50	1.1	21-Sep	34.1	18.5	1567	48	13	50	51	30	* 66	1.7	20-Sep	32.5	18.8	2042	58
NK Brand	S19-A6 Brand	1.9	52	1.4	30-Sep	35.0	17.6	1631	51	8	52	52	34							
NK Brand	S20-P3 Brand	2.0	53	1.7	29-Sep	36.0	17.8	1728	* 55	9	* 56	49	35	* 69	2.1	25-Sep	34.6	18.3	2179	* 61
NK Brand	S21-N6 Brand	2.1	53	1.3	28-Sep	34.5	18.9	1690	53	8	52	53	26	* 69	1.6	25-Sep	32.4	19.5	2147	* 61
NuTech	1808RN	1.8	* 56	1.0	28-Sep	34.8	18.5	1785	52	14	49	* 66	20	* 71	1.3	26-Sep	34.4	18.7	2275	* 63
NuTech	7199	1.9	* 54	1.2	28-Sep	35.7	18.3	1762	* 54	9	46	63	24							
NuTech	7201	2.0	* 54	1.0	24-Sep	34.7	19.0	1738	* 54	8	49	58	15	* 68	1.3	22-Sep	32.7	19.4	2144	* 61
NuTech	6224	2.2	51	1.3	1-Oct	35.9	17.8	1642	48	20	* 53	53	19	* 69	1.6	28-Sep	34.6	18.5	2194	* 60

Continued

TABLE 3. CENTRAL REGION ROUNDUP READY SOYBEAN TEST (Page 3 of 3)

Performance of Commercial Entries at Three Central Wisconsin Locations.

FON = FOND DU LAC, GAL = GALESVILLE, HAN = HANCOCK

		Maturity Group	2009 3-Test Average						2009					2008 3-Test Average						6-Test
Originator/Brand	Entry		Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	FON		GAL	HAN		Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield
									Yield WM ¹	%		bu/A	bu/A							
			bu/A	1-5	date	%	%	lb/A	bu/A	%	bu/A	bu/A	%	bu/A	1-5	date	%	%	lb/A	bu/A
NuTech	7222	2.2	* 56	1.2	27-Sep	33.9	19.3	1795	* 56	11	50	63	21							
NuTech	2324+RN	2.3	50	1.0	1-Oct	35.5	18.5	1637	51	16	48	52	26							
NuTech	6244	2.4	51	1.3	1-Oct	34.6	18.4	1622	47	8	48	58	14							
O'Brien	O'Soy 250 RR	2.4	48	1.4	4-Oct	36.2	17.3	1553	47	11	* 54	44	31							
Pioneer Brand	91Y70	1.7	53	1.1	20-Sep	34.2	19.5	1716	51	10	49	60	16							
Pioneer Brand	91Y80	1.8	53	1.1	19-Sep	35.0	18.7	1709	46	8	* 53	60	16	64	1.3	19-Sep	34.3	18.6	2015	58
Pioneer Brand	91Y90	1.9	52	1.0	25-Sep	35.1	18.1	1659	51	0	51	54	21							
Pioneer Brand	92Y10	2.1	46	1.0	27-Sep	35.7	18.0	1484	45	18	44	49	24							
Pioneer Brand	92Y30	2.3	51	1.2	1-Oct	35.2	18.4	1631	53	8	50	50	13							
Prairie Brand	PB-1918RR	1.9	47	1.1	23-Sep	35.0	18.2	1504	47	8	48	46	23							
Prairie Brand	PB-199X	1.9	51	1.1	19-Sep	36.0	17.7	1642	51	0	49	52	28							
Prairie Brand	PB-203X	2.0	52	1.3	27-Sep	35.8	17.7	1656	51	15	* 55	49	24							
Prairie Brand	PB-2099NRR2	2.0	* 58	1.1	28-Sep	34.7	18.7	1672	* 55	6	* 56	62	15							
Prairie Brand	PB-214X	2.0	* 54	1.2	27-Sep	35.9	17.7	1744	* 55	15	* 53	55	28							
Prairie Brand	PB-228X	2.2	* 54	1.2	29-Sep	36.2	17.3	1721	* 54	8	* 53	54	16							
Renk	RS 160NR2	1.6	* 58	1.0	22-Sep	35.6	18.7	1874	* 56	5	* 53	* 64	13	63	1.5	24-Sep	35.3	18.2	2026	56
Renk	RS 179NRR	1.7	49	1.4	26-Sep	36.1	17.7	1575	51	6	51	45	33							
Renk	RS 180R2	1.9	53	1.3	20-Sep	36.3	17.6	1719	52	1	* 53	55	30							
Renk	RS 190NR2	1.9	* 55	1.3	24-Sep	36.1	18.3	1792	52	3	51	61	26							
Renk	RS 200NR2	2.0	52	1.1	24-Sep	34.9	18.6	1661	52	23	47	56	29							
Renk	RS 210NR2	2.0	* 59	1.2	28-Sep	34.6	18.7	1897	* 59	4	* 55	* 64	18	* 69	1.4	19-Sep	33.1	19.1	2168	* 62
Renk	RS 223RR	2.1	* 55	1.0	23-Sep	34.3	19.2	1779	* 55	13	51	60	11							
MEAN			53	1.1	25-Sep	35.1	18.4	1707	52	8	52	56	21	65	1.4	20-Sep	33.9	18.9	2052	60
LSD(0.10)			5	ns	4	0.6	0.3	180	6	9	7	7	12	5	0.4	3	0.5	0.3	161	4

* Yields preceded by a '*' are not significantly different (0.10 level) than the highest yielding cultivar.

¹ WM = White Mold data is expressed as a percent of diseased plants.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 4. NORTH-CENTRAL REGION ROUNDUP READY SOYBEAN TEST (Page 1 of 3)

Performance of Commercial Entries at Three North Central Wisconsin Locations.

CHP=CHIPPEWA FALLS, MAR=MARSHFIELD, SEY=SEYMOUR

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009 Yields			2008 3-Test Average						6-Test
			Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	CHP	MAR	SEY	Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield
			bu/A	1-5	date	%	%	lb/A	-----bu/A-----			bu/A	1-5	date	%	%	lb/A	bu/A
Asgrow	AG 0803	0.8	49	1.0	19-Sep	34.7	18.7	1568	* 48	45	54	* 44	1.0	17-Sep	32.9	19.9	1379	46
Asgrow	AG 0808	0.8	48	1.0	21-Sep	33.9	18.5	1497	41	51	52	41	1.0	18-Sep	32.0	19.8	1267	45
Asgrow	RY 0809	0.8	47	1.0	24-Sep	35.2	18.0	1484	42	47	51							
Asgrow	AG 1102	1.1	50	1.0	21-Sep	33.3	18.4	1556	* 48	46	* 57	* 45	1.0	20-Sep	32.4	19.0	1392	* 48
Asgrow	AG 1403	1.4	49	1.0	21-Sep	34.0	18.7	1550	43	49	55	* 44	1.0	22-Sep	32.8	19.2	1382	* 47
Asgrow	AG 1506	1.5	50	1.0	26-Sep	34.0	19.3	1606	* 47	52	52	* 45	1.0	26-Sep	32.2	20.1	1391	* 48
Channel	1651R Brand	1.6	49	1.0	2-Oct	33.6	19.2	1562	42	49	* 57							
Channel	XPR 16-09 Brand	1.6	* 52	1.0	1-Oct	34.6	18.7	1676	45	* 55	* 57							
Croplan	RT 1992	1.9	50	1.0	26-Sep	33.5	19.4	1598	44	50	* 57	* 44	1.0	26-Sep	32.3	19.7	1372	* 47
Croplan	RC 2020	2.0	51	1.0	1-Oct	34.0	19.1	1619	45	* 53	55	43	1.0	27-Sep	32.6	20.2	1341	* 47
Croplan	RC 2068	2.0	49	1.0	2-Oct	33.8	19.0	1570	43	* 54	51							
Croplan	R2C 2139	2.1	51	1.0	7-Oct	34.0	18.6	1604	43	49	* 60							
Dahlco	DS 8080 RR	0.8	47	1.0	22-Sep	33.4	18.4	1459	45	43	54	41	1.0	18-Sep	32.0	19.4	1256	44
Dahlco	DS 6100RR	1.0	46	1.0	27-Sep	35.2	18.4	1475	40	48	50							
Dahlco	DS 8120 RR	1.2	45	1.0	26-Sep	34.6	18.8	1453	42	46	48	43	1.0	21-Sep	34.1	19.2	1382	44
Dahlco	DS 8150 RR	1.5	50	1.0	28-Sep	33.5	19.2	1582	42	49	* 59	* 44	1.0	23-Sep	33.6	19.5	1388	* 47
Dairyland	DSR-1423/RRSTS	1.4	51	1.0	28-Sep	34.3	18.6	1610	39	* 54	* 60							
Dairyland	DST 14-003/R2Y	1.4	* 53	1.0	3-Oct	34.2	18.5	1674	45	* 55	* 60							
Dairyland	DSR-1807/R2Y	1.8	51	1.0	9-Oct	35.6	17.7	1629	42	* 57	54							
Dyna-Gro	37RY14	1.4	* 55	1.0	1-Oct	33.9	18.7	1722	* 47	* 57	* 60							
Dyna-Gro	37R17	1.7	48	1.0	26-Sep	33.9	18.9	1512	41	46	* 56							
Dyna-Gro	35RY18	1.8	51	1.0	29-Sep	35.2	17.6	1633	* 49	49	* 56							
G2 Genetics	6159	1.5	49	1.0	26-Sep	34.2	19.4	1589	* 47	49	52							
G2 Genetics	7179	1.7	44	1.0	29-Sep	34.9	18.7	1429	43	44	46							
G2 Genetics	7186	1.8	48	1.0	29-Sep	34.8	18.8	1547	45	49	50							
G2 Genetics	7229	2.2	* 52	1.0	3-Oct	34.6	18.0	1649	* 47	* 53	* 57							
Jung	EX 1098 RR2	0.9	49	1.0	26-Sep	34.5	18.7	1579	43	51	54							
Jung	EX 1141 RR2	1.4	* 54	1.0	29-Sep	34.0	18.8	1701	42	* 58	* 61							
Jung	EX 1163 RR2	1.6	* 56	1.0	30-Sep	35.0	18.6	1799	* 51	* 57	* 59							
Kaltenberg	KB 158RRKK	1.5	49	1.0	9-Oct	35.0	18.0	1535	42	49	55	* 44	1.0	24-Sep	33.5	19.3	1374	46

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TABLE 4. NORTH-CENTRAL REGION ROUNDUP READY SOYBEAN TEST (Page 2 of 3)

Performance of Commercial Entries at Three North Central Wisconsin Locations.

CHP=CHIPPEWA FALLS, MAR=MARSHFIELD, SEY=SEYMOUR

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009 Yields			2008 3-Test Average						6-Test
			Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	CHP	MAR	SEY	Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield
			bu/A	1-5	date	%	%	lb/A	-----bu/A-----			bu/A	1-5	date	%	%	lb/A	bu/A
Kaltenberg	KB 1609RRKK	1.6	49	1.0	30-Sep	33.9	18.4	1552	41	* 56	51	* 45	1.0	23-Sep	33.0	19.3	1398	* 47
Kaltenberg	KB 177RRKK	1.7	49	1.0	3-Oct	33.4	19.3	1549	41	51	55							
Kaltenberg	KB 2010RRKK	2.0	50	1.0	8-Oct	34.3	18.5	1578	43	50	* 56							
Kruger	K-091RR	0.9	48	1.0	23-Sep	35.5	18.2	1554	* 46	48	51	42	1.0	19-Sep	34.4	19.3	1357	45
Kruger	K2X 10A9	1.0	48	1.0	22-Sep	36.4	18.0	1572	44	46	55							
Kruger	K2X 11A9	1.1	49	1.0	26-Sep	34.4	18.6	1543	41	51	54							
Kruger	K2X 11B9	1.1	* 56	1.0	25-Sep	33.9	18.7	1754	* 50	* 57	* 60							
Kruger	K2X 11C9	1.1	51	1.0	27-Sep	34.3	18.7	1615	45	* 53	54							
Kruger	K-129RR	1.2	47	1.0	25-Sep	34.6	18.8	1488	44	48	48	43	1.0	22-Sep	34.6	19.2	1382	45
Kruger	K2X 14A9	1.4	50	1.0	28-Sep	33.8	18.8	1577	* 49	46	55							
Kruger	K2X 15A9	1.5	51	1.0	29-Sep	34.1	18.6	1625	* 49	51	54							
Kruger	K2X 15B9	1.5	* 52	1.0	1-Oct	35.9	18.2	1672	45	* 53	* 57							
Kruger	K2X 15C9	1.5	* 52	1.0	27-Sep	35.8	18.3	1677	* 47	51	* 57							
Kruger	K-163RR	1.6	50	1.0	23-Sep	34.0	18.9	1601	* 47	49	55	* 46	1.0	23-Sep	33.1	19.3	1458	* 48
Kruger	K2X 16A9	1.6	* 52	1.0	28-Sep	34.7	18.6	1650	* 49	* 54	52							
NK Brand	S09-N6 Brand	0.9	50	1.0	23-Sep	35.0	18.2	1594	44	52	55							
NK Brand	S12-P4 Brand	1.2	51	1.0	27-Sep	35.2	18.2	1637	45	* 56	53	42	1.0	22-Sep	34.5	19.0	1349	* 47
NK Brand	S17-B5 Brand	1.7	* 52	1.0	30-Sep	33.1	18.6	1632	* 50	* 55	52	* 45	1.0	25-Sep	31.9	19.2	1399	* 49
NuTech	6145	1.4	50	1.0	3-Oct	34.0	19.0	1592	* 46	51	53	* 48	1.0	23-Sep	33.1	19.4	1519	* 49
NuTech	6152	1.5	* 52	1.0	27-Sep	34.5	18.6	1649	* 47	* 53	55							
NuTech	7154	1.5	48	1.0	26-Sep	35.1	18.6	1541	45	47	52	* 45	1.0	24-Sep	32.3	19.8	1396	46
NuTech	6166	1.6	50	1.0	26-Sep	33.9	18.9	1582	* 46	48	* 56	* 45	1.0	27-Sep	34.2	18.7	1419	* 47
NuTech	6175	1.7	* 52	1.0	8-Oct	34.6	18.7	1671	44	* 55	* 58	* 45	1.0	29-Sep	32.8	19.6	1430	* 49
NuTech	1717RN	1.7	* 53	1.0	2-Oct	33.4	19.4	1672	* 47	* 54	* 58	* 46	1.0	27-Sep	32.3	20.1	1460	* 50
NuTech	1808RN	1.8	49	1.0	5-Oct	34.5	18.6	1560	42	50	55	* 48	1.0	30-Sep	33.4	19.5	1524	* 49
NuTech	7199	1.9	50	1.0	10-Oct	34.6	18.4	1571	41	49	* 59							
Pioneer Brand	91Y20	1.2	46	1.0	26-Sep	35.3	18.1	1452	40	47	50	37	1.0	19-Sep	34.9	18.8	1188	41
Pioneer Brand	91Y70	1.7	49	1.0	30-Sep	33.4	19.7	1560	44	49	54							
Pioneer Brand	91Y80	1.8	48	1.0	1-Oct	34.0	19.1	1541	44	49	52							
Pioneer Brand	91Y90	1.9	51	1.0	30-Sep	34.8	18.0	1600	* 47	51	54	* 48	1.0	26-Sep	33.6	18.9	1508	* 50

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TABLE 4. NORTH-CENTRAL REGION ROUNDUP READY SOYBEAN TEST (Page 3 of 3)

Performance of Commercial Entries at Three North Central Wisconsin Locations.

CHP=CHIPPEWA FALLS, MAR=MARSHFIELD, SEY=SEYMOUR

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009 Yields			2008 3-Test Average						6-Test
			Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	CHP	MAR	SEY	Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield
			bu/A	1-5	date	%	%	lb/A	-----bu/A-----			bu/A	1-5	date	%	%	lb/A	bu/A
Pioneer Brand	92Y10	2.1	51	1.0	2-Oct	35.2	17.9	1608	44	50	* 58							
Pioneer Brand	92Y30	2.3	51	1.0	9-Oct	34.6	18.3	1624	* 46	51	* 56							
Prairie Brand	PB-109X	1.0	45	1.0	23-Sep	36.4	18.0	1474	38	43	55							
Prairie Brand	PB-129X	1.2	48	1.0	23-Sep	36.3	17.5	1545	44	47	52							
Prairie Brand	PB-158X	1.5	* 53	1.0	29-Sep	34.0	18.5	1671	* 47	* 54	* 58							
Prairie Brand	PB-1725RR	1.7	50	1.0	28-Sep	33.9	19.1	1584	* 47	49	54							
Prairie Brand	PB-179X	1.7	* 52	1.0	27-Sep	35.0	18.6	1676	* 49	* 53	54							
Prairie Brand	PB-191X	1.9	* 53	1.0	3-Oct	35.4	17.7	1667	* 47	* 58	53							
Renk	RS 107RR	1.0	46	1.0	26-Sep	35.1	18.3	1479	41	45	52	42	1.0	20-Sep	33.9	19.5	1349	44
Renk	RS 110R2	1.1	* 53	1.0	25-Sep	34.5	18.5	1671	* 47	* 55	* 56							
Renk	RS 120R2	1.2	48	1.0	23-Sep	36.4	17.3	1542	44	47	53							
Renk	RS 140NR2	1.4	51	1.0	7-Oct	34.1	18.5	1600	44	52	* 56							
Renk	RS 147RR	1.4	49	1.0	29-Sep	35.5	18.1	1580	41	50	* 57	* 47	1.0	24-Sep	33.9	18.8	1495	* 48
Renk	RS 150NR2	1.5	* 53	1.0	28-Sep	35.3	18.3	1711	45	* 54	* 61							
Renk	RS 160NR2	1.6	* 53	1.0	30-Sep	35.0	18.6	1701	* 47	* 54	* 58							
MEAN			50	1.0	28-Sep	34.5	18.6	1593	45	51	55	43	1.0	23-Sep	33.5	19.4	1355	47
LSD(0.10)			4	ns	5	0.4	0.3	115	5	5	5	4	ns	3	0.6	0.3	124	3

* Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herb. Toler. ; Herbicide Tolerance : RR= Tolerance to glyphosate herbicide, STS = Tolerance to Sulfonylurea herbicides, CN = Conventional herbicide tolerance.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 5. NORTHERN REGION ROUNDUP READY SOYBEAN TEST

Performance of Commercial Entries at Three Northern Wisconsin Locations.

SPD=SPOONER DRYLAND, SPI=SPOONER IRRIGATED, STR=STURGEON BAY

Originator/Brand	Entry	Maturity Group	2009 3-Test Average						2009 Yields			2007 3-Test Average						6-Test
			Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	SPD	SPI	STR	Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	Ave. Yield
			bu/A	1-5	date	%	%	lb/A	-----bu/A-----			bu/A	1-5	date	%	%	lb/A	bu/A
Asgrow	AG 0803	0.8	* 43	1.0	25-Sep	33.6	18.6	1344	* 40	45	44	* 38	1.0	21-Sep	33.8	19.2	1192	* 40
Asgrow	AG 0808	0.8	* 47	1.0	27-Sep	33.0	17.8	1442	* 43	* 48	* 51	* 35	1.0	19-Sep	33.4	19.0	1107	* 41
Asgrow	RY 0809	0.8	41	1.0	23-Sep	34.6	17.6	1290	38	42	43							
Croplan	RT 1077	1.0	* 44	1.0	26-Sep	35.0	17.8	1389	* 40	43	* 49							
Croplan	RT 1188	1.1	* 47	1.1	25-Sep	34.8	16.5	1460	* 44	* 46	* 52							
Croplan	RT 1692	1.6	* 43	1.0	26-Sep	33.4	18.5	1326	* 41	43	45	* 35	1.0	25-Sep	34.3	18.4	1118	* 39
Dairyland	DSR-1100/RR	1.1	42	1.0	26-Sep	34.6	17.8	1322	36	41	* 49							
Dairyland	DSR-1302/RRSTS	1.3	* 45	1.0	28-Sep	35.0	17.1	1368	* 40	42	* 52	* 37	1.0	25-Sep	34.6	18.2	1173	* 41
Dyna-Gro	36RY09	0.9	* 45	1.0	28-Sep	34.4	18.0	1390	* 42	41	* 51							
Kaltenberg	KB 089RRKK	0.8	* 45	1.0	26-Sep	35.4	17.8	1423	* 40	42	* 52							
Kaltenberg	KB 1210RRKK	1.2	41	1.0	27-Sep	34.9	17.4	1291	36	41	46							
Kaltenberg	KB 158RRKK	1.5	* 45	1.0	3-Oct	35.0	17.4	1411	38	44	* 52							
Kruger	K-042RR	0.4	* 45	1.0	21-Sep	34.3	18.8	1426	* 41	45	* 48	32	1.0	19-Sep	35.2	19.0	1037	* 38
Kruger	K2X 05A9	0.5	40	1.0	21-Sep	34.9	18.1	1280	38	39	43							
Kruger	K2X 06A9	0.6	36	1.0	23-Sep	35.5	16.9	1131	34	35	38							
Kruger	K-072+RR	0.8	* 44	1.0	25-Sep	34.9	18.0	1383	* 40	* 46	45	* 36	1.0	24-Sep	35.2	18.4	1150	* 40
Kruger	K2X 10A9	1.0	39	1.0	25-Sep	35.9	17.6	1252	34	44	38							
Kruger	K2X 11C9	1.1	* 46	1.0	27-Sep	34.4	17.8	1434	* 40	* 46	* 51							
NK Brand	S06-W2 Brand	0.6	* 44	1.0	23-Sep	34.8	17.4	1387	37	* 50	46	* 36	1.0	17-Sep	34.9	18.3	1126	* 40
NK Brand	S08-A2 Brand	0.8	37	1.0	20-Sep	34.4	18.1	1181	33	40	39							
NK Brand	S09-N6 Brand	0.9	* 46	1.0	28-Sep	34.4	17.4	1422	* 42	43	* 52							
Pioneer Brand	90Y50	0.5	40	1.0	19-Sep	34.5	18.1	1249	31	45	43							
Pioneer Brand	90Y80	0.8	* 44	1.0	20-Sep	33.6	19.0	1392	37	* 50	45							
Pioneer Brand	91Y20	1.2	42	1.0	28-Sep	35.2	17.7	1323	* 39	37	* 49							
Renk	RS 107RR	1.0	40	1.0	26-Sep	34.6	18.0	1263	* 39	35	45	* 35	1.0	23-Sep	34.8	18.8	1122	37
MEAN			43	1.0	25-Sep	34.6	17.8	1343	39	43	47	34	1.0	21-Sep	34.7	18.7	1086	40
LSD(0.10)			4	ns	3	0.5	0.3	127	5	4	5	4	ns	3	0.8	0.5	129	3

* Yields preceded by a ** are not significantly different (0.10 level) than the highest yielding cultivar.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 6. EARLY MATURITY (MG 0.0-1.9) SOYBEAN WHITE MOLD TEST

Performance of Commercial Entries In White Mold Disease Field Environment at Marshfield, WI.

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2009						2008					2-Year	
				Yield	White Mold ²	Lodging	Protein	Oil	Protein plus Oil	Yield	White Mold ²	Protein	Oil	Protein plus Oil	Yield	White Mold ²
				bu/A	%	1-5	%	%	lb/A	bu/A	%	%	%	lb/A	bu/A	%
Channel	1651R Brand	1.6	RR	45	19	1.8	32.0	18.9	1385							
Channel	XPR 16-09 Brand	1.6	RR	* 52	13	1.8	34.1	18.0	1619							
Channel	XPR 19-09 Brand	1.9	RR	* 47	36	2.0	34.9	16.9	1471							
Dairyland	DSR-1100/RR	1.1	RR	46	14	1.5	33.0	18.3	1422							
Dairyland	DSR-1302/RRSTS	1.3	RR/STS	* 47	15	1.8	33.9	17.3	1454	46	39	35.9	16.9	1459	47	27
FS HiSOY	HS 19A90	1.9	RR	45	36	2.3	34.2	17.7	1401							
Kruger	K2-1901	1.9	RR	44	33	2.0	32.7	17.9	1349							
MEAN				47	24	1.9	33.5	17.9	1443							
LSD(0.10)				5	9	ns	1.2	0.5	139							

* Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herb. Toler. ; Herbicide Tolerance : RR= Tolerance to glyphosate herbicide, STS = Tolerance to Sulfonylurea herbicides

² White Mold data is expressed as a percent of diseased plants.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 7. LATE MATURITY (MG 2.0-2.9) SOYBEAN WHITE MOLD TEST

Performance of Commercial Entries In White Mold Disease Field Environment at Arlington, WI.

Originator/Brand	Entry	2009								2008						2-Year	
		Maturity Group	Herb. ¹ Toler.	Yield	White Mold ²	Lodging	Protein	Oil	Protein plus Oil	Yield	White Mold ²	Lodging	Protein	Oil	Protein plus Oil	Yield	White Mold ²
				bu/A	%	1-5	%	%	lb/A	bu/A	%	1-5	%	%	lb/A	bu/A	%
Channel	2200R2 Brand	2.2	RR	* 47	28	1.0	34.8	18.9	1497								
Channel	2351R Brand	2.3	RR	* 48	39	1.0	35.6	18.1	1543								
Channel	2400R2 Brand	2.4	RR	* 48	45	1.0	35.6	18.1	1532								
Channel	2551R Brand	2.5	RR	45	46	1.0	34.6	18.4	1421								
Dairyland	DSR-2118	2.1	CN	* 50	41	1.0	35.4	19.0	1637	71	0	1.0	34.7	18	2271	* 61	21
Dairyland	DSR-2200/RR	2.2	RR	42	45	1.0	35.8	18.0	1363	* 73	0	1.0	35.0	18	2297	58	23
Dairyland	DSR-234/RR	2.3	RR	44	21	1.0	35.7	17.7	1425								
FS HiSOY	HS 20R80	2.0	RR	* 54	40	1.0	35.4	18.6	1735	66	0	1.0	34.4	18	2083	* 60	20
FS HiSOY	HS 22A90	2.2	RR	* 54	23	1.0	35.0	18.8	1732								
FS HiSOY	HS 22R70	2.2	RR	* 46	46	1.0	34.6	18.9	1493	66	0	1.0	33.4	18	2068	56	23
FS HiSOY	HS 23R71	2.3	RR	* 51	25	1.0	35.6	18.2	1636	* 78	0	1.0	34.8	18	2455	* 65	13
FS HiSOY	HS 24R91	2.4	RR	37	53	1.0	35.5	17.9	1185								
FS HiSOY	HS 24A90	2.5	RR	* 53	45	1.0	35.8	18.2	1719								
FS HiSOY	HS 25R80	2.5	RR	* 49	35	1.0	34.5	18.5	1562								
Kruger	K2-2101	2.1	RR	* 46	31	1.0	35.0	18.7	1478								
Kruger	K2-2601	2.4	RR	45	65	1.0	35.4	18.2	1436								
Kruger	K2-2501	2.5	RR	* 51	30	1.0	34.8	17.9	1616								
Kruger	K2-2701	2.7	RR	40	54	1.0	36.2	17.3	1292								
Kruger	K2-2801	2.8	RR	44	60	1.0	34.8	18.2	1399								
Kruger	K-285 RR/SCN	2.8	RR	* 51	25	1.3	33.7	18.5	1606	70	0	1.0	33.6	18	2159	* 61	13
Kruger	K2-2901	2.9	RR	* 46	58	1.3	35.5	17.7	1469								
Kruger	K2-2902	2.9	RR	33	83	1.0	35.0	17.1	1018								
MEAN				47	43	1.0	35.2	18.2	1491	70	0	1.0	34.5	17.9	2194	60	19
LSD(0.10)				8	24	ns	0.4	0.2	255	6	ns	ns	0.4	0.3	201	6	

* Yields preceded by a '*' are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Tolerance : RR= Tolerance to glyphosate herbicide , CN = Conventional herbicide tolerance.

² White Mold data is expressed as a percent of diseased plants.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 8. SOYBEAN CYST NEMATODE TEST

Performance of Commercial Roundup Ready Entries In SCN Disease Field Environment at East Troy and Hancock, WI.

Originator/Brand Entry		SCN		2009 2-Test Average					2009										2 Year
		Maturity Group	Resistance Source	Yield	WM ¹	Protein	Oil	Protein plus Oil	East Troy					Hancock					Ave. Yield bu/A
									Yield	WM ¹	Egg Counts ²		Pf/Pi ³	Yield	WM ¹	Egg Counts ²		Pf/Pi ³	
											Spring (i)	Fall (f)				Spring (i)	Fall (f)		
				bu/A	%	%	%	lb/A	bu/A	%				bu/A	%				
G2 Genetics	7208	2.0	PI 88788	* 68	10	32.5	19.2	2099	63	5	150	150	0.9	* 72	15	317	250	0.5	* 54
G2 Genetics	7212	2.1	PI 88788	* 66	10	31.9	19.5	2038	* 64	8	233	67	0.3	* 68	13	184	300	2.7	
G2 Genetics	7226	2.2	Peking	61	9	33.7	19.0	1925	63	6	84	17	0.1	59	13	583	133	0.5	
G2 Genetics	7255	2.5	PI 88788	61	10	35.1	17.4	1914	* 67	10	234	467	2.1	55	10	184	367	3.8	47
Kruger	K-189RR/SCN	1.8	PI 88788	60	13	33.9	18.7	1889	58	14	200	84	0.5	62	13	167	150	1.7	
Kruger	K2-1901	1.9	PI 88788	* 63	11	33.4	18.5	1942	62	6	134	33	0.1	63	15	284	50	0.8	
Kruger	K-201RR/SCN	2.0	PI 88788	* 67	13	33.2	19.4	2106	* 65	8	133	250	1.3	* 68	19	567	217	0.5	* 51
Kruger	K2-2101	2.1	PI 88788	* 65	9	32.4	19.1	2016	62	11	83	0	0.0	* 68	8	167	167	1.3	
Kruger	K2-2601	2.4	PI 88788	* 63	12	33.4	18.5	1952	60	11	208	161	0.8	65	13	133	183	0.1	
Kruger	K2-2501	2.5	PI 88788	* 64	19	33.9	17.5	1951	* 67	14	133	50	0.2	60	25	267	350	1.8	* 53
Kruger	K-285 RR/SCN	2.8	PI 88788	* 64	23	32.6	17.9	1934	* 69	18	118	102	0.2	59	29	567	583	1.5	
NuTech	1808RN	1.8	PI 88788	* 66	17	32.5	19.0	2024	* 66	15	200	50	0.3	65	19	300	117	0.5	
NuTech	7201	2.0	PI 88788	* 65	15	32.9	19.5	2030	63	13	67	150	1.6	66	18	333	317	1.2	* 53
NuTech	7222	2.2	PI 88788	* 68	9	32.0	19.6	2113	* 65	6	100	150	1.1	* 71	13	167	117	0.8	
NuTech	2324+RN	2.3	PI 88788	* 66	12	33.4	19.0	2073	* 66	14	117	50	0.2	66	10	150	67	0.2	
NuTech	7269	2.6	PI 88788	* 67	7	31.8	19.2	2057	* 65	6	117	0	0.0	* 69	8	167	150	1.5	* 54
NuTech	2660RN	2.6	PI 88788	* 67	11	32.5	18.9	2065	* 67	9	184	67	0.6	* 67	14	317	517	1.7	
Pioneer Brand	92Y20	2.2	Peking	* 63	8	32.0	19.7	1949	63	8	100	33	0.2	63	9	233	150	0.8	
MEAN				65	12	32.9	18.9	2004	64	10	144	104	0.6	65	14	282	232	1.2	52
LSD(0.10)				6	6	1.2	0.5	208	5	8	ns	207	ns	5	11	ns	292	2.0	5

* Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

¹ WM = White Mold data is expressed as a percent of diseased plants.

² Average number of eggs in one hundred cubic centimeters of soil.

³ Reproductive factor = final egg population (fall) / initial egg population (spring).

Results that are shaded provide the best estimate of relative variety performance.

TABLE 9. SOUTHERN CONVENTIONAL AND TRAITED HERBICIDE SOYBEAN TEST

Performance of Public and Commercial Entries at Two Wisconsin Locations.

ARL=ARLINGTON, LAN=LANCASTER

Originator/Brand	Entry	Maturity Herb. ¹ Group Toler.		2009 2-Test Average						2009			2008 2-Test Average						2 - Year
				Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	ARL	LAN ³		Yield	Lodgin	Maturity	Protein	Oil	Protein plus Oil	Ave.
				bu/A	1-5	date	%	%	lb/A	bu/A	%	bu/A	bu/A	1-5	date	%	%	lb/A	bu/A
Public	MN 0302	0.3	CN	38	1.5	9-Sep	36.4	18.4	1234	60	0	16							
Public	Hamlin	0.9	CN	46	1.8	19-Sep	38.0	17.4	1528	63	4	29							
Public	Surge	0.9	CN	46	2.3	15-Sep	37.9	17.7	1509	62	13	29							
Public	MN 1005	1.0	CN	43	3.0	19-Sep	35.1	18.6	1354	54	6	31	51	1.0	7-Sep	33.0	20.1	1608	47
Public	SD 02-833	1.1	CN	46	3.0	19-Sep	35.7	18.3	1474	56	9	35							
Public	MN 1410	1.4	CN	* 50	2.3	23-Sep	36.1	18.4	1633	* 66	9	34	52	1.0	15-Sep	34.4	19.6	1691	51
Public	IA 1006	1.6	CN	45	2.6	26-Sep	35.0	18.1	1444	58	15	32							
Public	MN 1701 CN	1.7	CN	* 48	2.5	28-Sep	35.7	18.2	1562	58	14	38							
Public	IA 1008 BC	1.9	CN	45	1.4	25-Sep	36.0	18.0	1457	61	6	28							
Public	IA 1022	1.9	CN	47	2.0	24-Sep	33.8	19.5	1513	59	8	35	* 59	1.0	20-Sep	31.1	20.8	1837	53
Public	IA 2076	2.0	CN	* 54	2.4	30-Sep	35.5	18.0	1712	65	14	42	54	1.0	17-Sep	34.6	19.1	1729	* 54
Public	SD 02-22	2.2	CN	* 51	2.1	27-Sep	35.1	17.5	1616	60	25	42							
Asgrow	AG 2108	2.1	RR	* 58	2.0	1-Oct	34.4	18.4	1815	65	15	50							
Blue River	2A12	2.1	CN	* 53	2.3	24-Sep	36.1	17.8	1708	64	5	41	* 60	1.0	21-Sep	34.2	19.1	1910	* 56
Blue River	2A71	2.7	CN	* 55	2.9	9-Oct	35.6	17.7	1748	52	5	* 57	* 62	1.0	29-Sep	34.1	18.6	1947	* 58
Dairyland	DSR-2118	2.1	CN	* 50	1.4	1-Oct	35.1	19.1	1603	58	4	41	* 62	1.0	23-Sep	32.3	20.5	1947	* 56
Dairyland	DSR-2200/RR	2.2	RR	* 56	2.0	6-Oct	35.0	18.1	1754	58	5	* 53							
Dairyland	DSR-2215	2.2	CN	* 50	1.8	4-Oct	34.9	18.2	1591	60	14	39							
FS HiSOY	L 09-23	2.3	LL	* 58	1.6	7-Oct	36.2	17.7	1887	* 66	14	50							
FS HiSOY	HS 25L80	2.6	LL	* 59	2.3	7-Oct	33.6	18.7	1837	62	5	* 56							
NK Brand	S21-N6 Brand	2.1	RR	* 56	1.6	28-Sep	34.1	19.1	1764	* 72	4	39							
O'Brien	O'Soy 108C	1.8	CN	46	2.3	24-Sep	34.2	19.3	1477	59	10	33							
O'Brien	O'Soy 183LL	1.8	LL	46	1.8	25-Sep	35.3	18.4	1475	61	10	30							
Renk	RS 230NLL	2.3	LL	* 60	1.8	7-Oct	36.1	17.7	1936	* 69	9	51							
Viking	O.1692	1.6	CN	* 51	1.9	22-Sep	34.6	18.1	1608	* 68	10	34	* 60	1.0	16-Sep	33.2	19.4	1874	* 55
Viking	O.1706N	1.7	CN	* 55	1.5	19-Sep	35.0	18.3	1743	* 66	19	43							
Viking	2020N	2.0	CN	46	2.4	22-Sep	35.2	18.2	1454	59	18	32							
Viking	O.2078N	2.0	CN	* 51	1.4	25-Sep	35.8	17.8	1624	57	16	44							
Viking	O.2265	2.2	CN	* 54	2.0	29-Sep	35.0	18.2	1707	* 67	11	40	* 63	1.0	26-Sep	32.9	19.6	1983	* 58
Mean				50	2.1	26-Sep	35.4	18.2	1613	62	10	39	56	1.0	21-Sep	33.5	19.5	1775	54
LSD(0.10)				12	1.1	7	1.1	0.9	390	6	ns	5	5	ns	3	0.9	0.4	134	4

* Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herb. Toler. ; Herbicide Tolerance : CN = Conventional herbicide , LL = = Tolerance to Ignite herbicide, RR = Tolerance to glyphosate herbicide.

² WM = White Mold data is expressed as a percent of diseased plants.

³ Lancaster site had severe hail on July 24th which affected yield.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 10. NORTH CENTRAL CONVENTIONAL AND TRAITED HERBICIDE SOYBEAN TEST

Performance of Public and Commercial Entries at Marshfield WI.

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2009					
				Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil
				bu/A	1-5	date	%	%	lb/A
Public	MN 0302	0.3	CN	34	1.0	17-Sep	34.6	18.5	1086
Public	MN 1005	1.0	CN	47	1.0	27-Sep	34.0	18.6	1496
Public	Surge	0.9	CN	49	1.0	24-Sep	36.2	17.9	1571
Public	Hamlin	0.9	CN	45	1.0	24-Sep	37.2	17.3	1469
Public	MN 1410	1.4	CN	* 57	1.0	29-Sep	35.2	18.5	1848
Public	MN 1701 CN	1.7	CN	* 54	1.0	6-Oct	35.5	17.5	1721
Public	SD 02-833	1.1	CN	53	1.0	30-Sep	35.2	17.5	1668
Public	IA 1006	1.6	CN	* 58	1.0	3-Oct	34.2	17.9	1818
Public	IA 1022	1.9	CN	50	1.0	4-Oct	32.5	18.9	1544
Asgrow	AG 1506	1.5	RR	50	1.0	3-Oct	33.3	18.5	1543
Blue River	10F8	1.0	CN	42	1.0	27-Sep	34.5	18.6	1337
Blue River	1A24	1.2	CN	46	1.0	13-Oct	35.4	16.7	1433
Blue River	15K9	1.5	CN	44	1.0	6-Oct	36.4	17.6	1433
Blue River	16A7	1.6	CN	45	1.0	27-Sep	34.1	17.5	1400
Dairyland	DSR-1302/RRSTS	1.3	RR/STS	50	1.0	4-Oct	34.6	17.2	1559
NK Brand	S12-P4 Brand	1.2	RR	51	1.0	3-Oct	34.8	17.4	1597
O'Brien	O'Soy 183LL	1.8	LL	47	1.0	18-Oct	34.2	17.7	1464
O'Brien	O'Soy 108C	1.8	CN	51	1.0	5-Oct	32.8	19.0	1591
Renk	RS 170LL	1.7	LL	52	1.0	17-Oct	35.7	16.8	1638
Mean				49	1.0	2-Oct	34.7	17.9	1538
LSD(0.10)				4	ns		0.4	0.3	136

* Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herb. Toler. ; Herbicide Tolerance : CN = Conventional herbicide , LL = = Tolerance to Ignite herbicide, STS = Tolerance to Sulfonyleurea herbicides, RR = Tolerance to glyphosate herbicide.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 11. SEED SOURCE FOR SOYBEAN ENTRIES IN 2009

Brand	Company Name	Address	Phone	Website
Asgrow	Monsanto Company	800 N. Linbergh Blvd, St. Louis, MO, 63137	(815) 754-4809	www.monsanto.com
Blue River	Blue River Hybrids	27087 Timber Road, Kelly, IA, 50134	(800) 320-7979	www.blueriverorgseed.com
Channel	Channel Bio	612 E Dunlap St, Kentland, IN, 47951	(219) 474-6868	www.channelbio.com
Croplan Genetics	Winfield Solutions	180 Lynne Trail, Oregon, WI, 53575	(608) 835-7446	www.croplangenetics.com
Dahlco	Dahlco Seeds	14730 15th St. SW, Cokato, MN, 55321	(320) 286-5982	www.dahlco.com
Dairyland	Dairyland Seed Company Inc.	P.O. Box 958, 3570 Hwy. H, West Bend, WI, 53095	(800) 236-0163	www.dairylandseed.com
Dyna-Gro	Crop Production Services	1216 Lawton, Waukegan, WI, 53597	(815) 822-8759	www.dyna-groseed.com
FS Hisoy	Growmark Inc.	1701 Towanda Ave., Bloomington, IL, 61701	(309) 557-6399	www.fsseeds.com
G2 Genetics	G2 Genetics	36131 Hwy 69, Forest City, IA, 50436	(641) 581-3350	nutechseed.com
Hughes	Hughes Seed Farms, Inc.	206 N. Hughes Rd., Woodstock, IL, 60098	(815) 338-2480	www.HughesHybrids.com
Jung	Jung Seed Genetics	341 South High Street, Randolph, WI, 53956	(800) 242-1855	www.jungseedgenetics.com
Kaltenberg	Kaltenberg Seed Farms	5506 State Road 19 P.O. Box 278, Waunakee, WI, 53597	(608) 849-5021	www.kaltenbergseeds.com
Kruger	Kruger Seed Company	33938 160th Ave. P.O. Box A, Dike, IA, 50624	(800) 772-2721	www.krugerseed.com
NK Brand	Syngenta	3513 Strawberry Loop, Middleton, WI, 53562	(608) 203-6606	www.nk.com
NuTech	NuTech Seed	36131 Hwy 69, Forest City, IA, 50436	(641) 581-3350	www.nutechseed.com
O'Brien	O'Brien Farms, Inc.	552 Glenway Rd., Brooklyn, WI, 53521	(608) 835-3564	
Pioneer Brand	Pioneer Hi-Bred Intl., Inc.	151 St. Andrews Court, Suite 910, Mankato, MN, 56001	(507) 625-3045	www.pioneer.com
Prairie Brand	Prairie Brand Seed	15 X Avenue, Story City, IA, 50248	(800) 544-8751	www.prairiebrandseed.com
Public	WCIA / Foundation Seeds	1575 Linden Drive, Madison, WI, 53706	(608) 262-1341	www.wisc.edu/wcia
Renk	Renk Seed	6809 Wilburn Rd., Sun Prairie, WI, 53590	(800) 289-7365	www.renkseed.com
Viking	Albert Lea Seed House	1414 W. Main, P.O. Box 127, Albert Lea, MN, 56007	(507) 373-3161	www.alseed.com

Table 12. 2009 Temperature and Precipitation Summary.

Location	Temperature Precipitation	May		June		July		August		September	
		Average-F° Total-Inch	Departure Departure	Average-F° Total-Inch	Departure Departure	Average-F° Total-Inch	Departure Departure	Average-F° Total-Inch	Departure Departure	Average-F° Total-Inch	Departure Departure
Arlington	Temperature	55.8	-1.3	64.1	-2.5	63.0	-7.5	64.1	-4.4	60.0	-0.5
	Precipitation	3.58	-0.15	4.26	0.22	2.31	-1.55	3.21	-1.03	2.37	-1.27
	Irrigation - White Mold Trial					0.85					
Chippewa Falls (Eau Claire)	Temperature	57.3	-0.7	64.6	-2.1	65.7	-5.7	66.4	-2.6	62.7	3.3
	Precipitation	2.00	-1.69	3.57	-0.70	1.17	-2.77	5.74	1.06	0.75	-2.99
East Troy (Burlington)	Temperature	56.5	0.1	64.3	-2.0	64.4	-6.6	66.1	-2.8	60.8	0.3
	Precipitation	2.98	-0.16	4.45	0.49	2.39	-1.38	4.46	0.30	1.34	-1.93
Fond du Lac	Temperature	56.4	-1.5	64.6	-2.5	65.4	-6.4	66.5	-3.0	61.7	0.4
	Precipitation	3.36	0.45	2.53	-1.04	1.81	-1.71	3.00	-1.18	1.46	-2.04
Galesville (La Crosse)	Temperature	58.9	-1.7	67.8	-1.8	68.2	-5.8	69.2	-2.4	64.5	1.8
	Precipitation	3.94	0.56	2.85	-1.15	2.09	-2.16	5.24	0.96	1.00	-2.40
Hancock* (Stevens Point)	Temperature	56.0	0.0	64.2	-1.1	63.8	-5.9	65.4	-1.9	62.0	4.0
	Precipitation	3.27	-0.36	2.84	-0.82	2.14	-1.98	6.19	2.08	0.36	-3.42
	Irrigation			4.00		5.65		5.50		6.90	
Janesville (Beloit)	Temperature	58.8	0.0	67.3	-1.3	65.7	-6.7	67.3	-2.8	64.8	2.5
	Precipitation	3.79	0.43	4.25	-0.39	3.10	-0.73	5.47	1.19	1.69	-1.93
Lancaster	Temperature	56.8	-0.9	65.9	-1.0	63.9	-7.2	65.2	-3.7	61.2	0.7
	Precipitation	4.15	0.43	2.66	-2.07	5.64	1.55	6.05	1.46	0.78	-2.41
Marshfield	Temperature	56.7	0.9	64.7	-0.6	64.8	-5.0	66.0	-1.2	62.3	4.5
	Precipitation	3.89	0.19	3.65	-0.49	2.48	-1.58	7.27	2.96	0.51	-3.51
	Irrigation - White Mold Trial					2.50		2.05		1.89	
Seymour (Green Bay)	Temperature	55.2	-1.2	64.5	-0.9	65.4	-4.5	66.0	-1.5	61.3	2.5
	Precipitation	3.01	0.26	2.53	-0.90	2.58	-0.86	4.00	0.23	1.20	-1.91
Spooner*	Temperature	55.0	-2.1	63.4	-1.7	63.8	-5.6	64.9	-2.3	62.9	4.5
	Precipitation	1.08	-2.02	2.29	-1.69	2.16	-2.09	4.61	-0.03	1.19	-2.49
	Irrigation-Sand Trial	0.81		0.92		2.00				0.43	
Sturgeon Bay	Temperature	52.7	-0.7	62.2	-0.9	65.4	-3.2	66.2	-0.8	62.1	2.8
	Precipitation	4.10	1.18	2.23	-1.26	0.85	-2.56	4.57	0.96	1.61	-1.82

* Irrigation applied at Arlington White Mold, Hancock, Marshfield White Mold, and Spooner - Irrigated Sand Trials.

Source: Wisconsin State Climatology Office

TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 1 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
Asgrow	AG 0803	0.8	RR	4 5	PI 88788	Rps 1-k	P	T	BR	B
Asgrow	AG 0808	0.8	RR	4 5	Susc.	Rps 1-k	W	T	BR	B
Asgrow	RY 0809	0.8	RR	4 5	Susc.	Rps 1-c	P	T	BR	G
Asgrow	AG 1102	1.1	RR	3 4	Susc.	Rps 1-k	P	T	BR	B
Asgrow	AG 1403	1.4	RR	3 4	Susc.	S	W	T	TN	BR
Asgrow	AG 1506	1.5	RR	3 4 10	PI 88788	Rps 1-k	P	G	TN	IB
Asgrow	RY 1709	1.7	RR	3	PI 88788	Rps 1-k	P	G	TN	IB
Asgrow	AG 2002	2.0	RR	2 3	PI 88788	Rps 1-c	P	T	BR	B
Asgrow	AG 2108	2.1	RR	2 3 9	PI 88788	S	P	G	TN	IB
Asgrow	RY 2409	2.4	RR	2 3	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG 2521V	2.5	RR	2	PI 88788	Rps 1-k	P	G	BR	G
Asgrow	AG 2606	2.6	RR	2	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG 2939	2.9	RR	2	PI 88788	Rps 1-k	P	G	BR	IB
Blue River	10F8	1.0	CN	10						
Blue River	1A24	1.2	CN	10	Susc.		P	TW	TW	B
Blue River	15K9	1.5	CN	10						
Blue River	16A7	1.6	CN	10	Susc.		P	T	T	BR
Blue River	2A12	2.1	CN	9	Susc.		W	LTW	T	B
Blue River	2A71	2.7	CN	9	Susc.		P	G	BR	B
Channel	1651R Brand	1.6	RR	4 6						
Channel	XPR 16-09 Brand	1.6	RR	4 6						
Channel	XPR 19-09 Brand	1.9	RR	3 6						
Channel	2200R2 Brand	2.2	RR	3 7						
Channel	2351R Brand	2.3	RR	2 7						
Channel	2400R2 Brand	2.4	RR	2 7						
Channel	2551R Brand	2.5	RR	2 7						
Croplan	RT 1077	1.0	RR	5						
Croplan	RT 1188	1.1	RR	5						
Croplan	RT 1692	1.6	RR	5	Susc.	Rps 1-k	W	TW	TN	TN
Croplan	RT 1992	1.9	RR	3 4	Susc.	-	W	TW	T	T
Croplan	RC 2020	2.0	RR	4	PI 88788	Rps 1-k	P	G	T	IB
Croplan	RC 2068	2.0	RR	3 4						
Croplan	RT 2092	2.0	RR	3	Susc.	-	W	TW	T	T
Croplan	R2C 2139	2.1	RR	2 3 4						
Croplan	RT 2127	2.1	RR	2						
Croplan	RC 2539	2.5	RR	2						
Croplan	RT 2588	2.5	RR	2						
Croplan	R2C 2878	2.8	RR	2						

CONTINUED

TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 2 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
Dahlco	DS 8080 RR	0.8	RR	4						
Dahlco	DS 6100RR	1.0	RR	4						
Dahlco	DS 8120 RR	1.2	RR	4						
Dahlco	DS 8150 RR	1.5	RR	4						
Dahlco	DS 8170 RR	1.7	RR	3						
Dahlco	DS 8190 RR	1.9	RR	3						
Dahlco	DS 8210 RR	2.1	RR	3						
Dahlco	DS 4230 RR	2.3	RR	3						
Dairyland	DSR-1100/RR	1.1	RR	5 6			P	LTW	T	Y
Dairyland	DSR-1302/RRSTS	1.3	RR/STS	5 6 10		Rps 1-k	P	LTW	T	BR
Dairyland	DSR-1423/RRSTS	1.4	RR/STS	3 4	PI 88788		W	LTW	BR	B
Dairyland	DST 14-003/R2Y	1.4	RR	4			P	G	BR	IB
Dairyland	DSR-1807/R2Y	1.8	RR	3 4		Rps 1-c	M	G	BR	IB
Dairyland	DSR-2118	2.1	CN	7 9			P	G	BR	G
Dairyland	DSR-2132/R2Y	2.1	RR	3		Rps 1-c	P	LTW	BR	IB
Dairyland	DSR-2200/RR	2.2	RR	2 7 9	Other		W	LTW	BR	B
Dairyland	DSR-2215	2.2	CN	9	Other		W	LTW	BR	B
Dairyland	DSR-234/RR	2.3	RR	2 7	Other	Rps 1-k	P	LTW	BR	B
Dairyland	DSR-2525/RR-AP	2.5	RR	2	PI 88788		P	G	BR	IB
Dairyland	DSR-2560/RR	2.5	RR	2			W	LTW	BR	B
Dairyland	DST 25-003/R2Y	2.5	RR	2			P	G	T	IB
Dairyland	DSR-2770/RR	2.7	RR	2	Other	Rps 1-k	W	LTW	BR	B
Dairyland	DSR-2930/R2Y	2.9	RR	2	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	36RY09	0.9	RR	5	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	37RY14	1.4	RR	4	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	37R17	1.7	RR	4	Susc.	Rps 1-k	P	TW	T	BR
Dyna-Gro	35RY18	1.8	RR	4	Susc.	Rps 1-c	P	G	T	IB
Dyna-Gro	V 20N8RR	2.0	RR	3	PI 88788	Rps 1-c	P	G	T	IB
Dyna-Gro	38G23	2.3	RR	3	PI 88788	Rps 1-k	P	G	T	IB
Dyna-Gro	34RY24	2.4	RR	2	PI 88788	Rps 1-c	P	G	T	IB
Dyna-Gro	V 25N9RR	2.5	RR	2	PI 88788	S	W	LTW	BR	B
FS HiSOY	HS 19A90	1.9	RR	2 3 6	Susc.	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 20R80	2.0	RR	2 3 7	PI 88788	Rps 1-c	P	LTW	BR	BR
FS HiSOY	HS 22A90	2.2	RR	2 7	PI 88788	Rpc 1-c	P	G	TN	IB
FS HiSOY	HS 22R70	2.2	RR	2 3 7	PI 88788	Rps 1-k	P	G	TW	IB
FS HiSOY	HS 23R71	2.3	RR	2 7	Susc.	S	W	LTW	BR	BL
FS HiSOY	L 09-23	2.3	LL	9	PI 88788	S	P	G	BR	IB
FS HiSOY	HS 24R91	2.4	RR	2 7	Susc.	S	W	LTW	BR	BL

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TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 3 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
FS HiSOY	HS 24A90	2.5	RR	2 7	PI 88788	Rps 1-c	P	G	TN	IB
FS HiSOY	HS 25R80	2.5	RR	2 7	PI 88788	Rps 1-k	P	G	TN	IB
FS HiSOY	HS 25L80	2.6	LL	9	PI 88788	S	P	G	BR	IB
G2 Genetics	6159	1.5	RR	3 4						
G2 Genetics	7179	1.7	RR	4						
G2 Genetics	7186	1.8	RR	3 4						
G2 Genetics	7208	2.0	RR	2 3 8	PI 88788					
G2 Genetics	7212	2.1	RR	2 3 8	PI 88788					
G2 Genetics	7226	2.2	RR	2 3 8	Peking					
G2 Genetics	7229	2.2	RR	3 4						
G2 Genetics	6247	2.4	RR	2 3						
G2 Genetics	7249	2.4	RR	2						
G2 Genetics	7255	2.5	RR	2 8	PI 88788					
G2 Genetics	7288	2.8	RR	2						
Hughes	289 R2	2.2	RR	2	Susc.	Rps 1-k	M	G	BR	IB
Hughes	454 RR	2.4	RR	2	Susc.	S	W	LTW	BR	B
Hughes	555 RR	2.5	RR	2	PI 88788	Rps 1-k	W	T	BR	B
Hughes	721 R2	2.7	RR	2	PI 88788	Rps 1-k	P	G	T	IB
Hughes	777 RR	2.7	RR	2	PI 88788	S	W	LTW	BR	B
Jung	EX 1098 RR2	0.9	RR	4		Rps 1-c	W	G	BR	IB
Jung	EX 1141 RR2	1.4	RR	4		Rps 1-c	W	G	BR	IB
Jung	EX 1163 RR2	1.6	RR	4		Rps 1-c	P	G	BR	IB
Jung	EX 1192 RR2	1.9	RR	3		Rpc 1-c				
Jung	1225 RR2	2.2	RR	3		Rps 1-c	P	G	BR	IB
Jung	1248 RR2	2.4	RR	3		Rps 1-c	P	G	BR	IB
Kaltenberg	KB 089RRKK	0.8	RR	5						
Kaltenberg	KB 1210RRKK	1.2	RR	5						
Kaltenberg	KB 158RRKK	1.5	RR	4 5		Rps 1-k	P	LTW	T	BL
Kaltenberg	KB 1609RRKK	1.6	RR	4		Rps 1-k	W	TW	T	T
Kaltenberg	KB 177RRKK	1.7	RR	4						
Kaltenberg	KB 1809RRKK	1.8	RR	3		S	P	LTW	BR	BR
Kaltenberg	KB 2010RRKK	2.0	RR	3 4						
Kaltenberg	KB 226RRKK	2.2	RR	3	PI 88788	S	P	LTW	BR	BL
Kaltenberg	KB 2309RRKK	2.3	RR	3	PI 88788	Rps 1-k	P	G	LBR	BF
Kaltenberg	KB 2409RRKK	2.4	RR	2	PI 88788	S	P	TW	BR	BL
Kaltenberg	KB 249RRKK	2.4	RR	2	PI 88788	S	W	LTW	BR	BL
Kaltenberg	KB 2510RRKK	2.5	RR	2						
Kaltenberg	KB 2609RRKK	2.6	RR	2	PI 88788	S	W	TW	T	BL

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TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 4 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
Kruger	K-042RR	0.4	RR	5		Rps 1-a	P	G	BR	Y
Kruger	K2X 05A9	0.5	RR	5		Rps 1-k	P	G	BR	IB
Kruger	K2X 06A9	0.6	RR	5		Rps 1-c	P	G	BR	BF
Kruger	K-072+RR	0.8	RR	5		Rps 1-a	W	LTW	BR	BR
Kruger	K-091RR	0.9	RR	4		None	P	LTW	M	BR
Kruger	K2X 10A9	1.0	RR	4 5		Rps 1-c	P	LTW	BR	M
Kruger	K2X 11A9	1.1	RR	3 4		Rps 1-c	P	G	TN	IB
Kruger	K2X 11B9	1.1	RR	3 4			P	G	TN	IB
Kruger	K2X 11C9	1.1	RR	4 5		Rps 1-c	P	G	TN	IB
Kruger	K-129RR	1.2	RR	4			P	LTW	TN	M
Kruger	K2X 14A9	1.4	RR	3 4	PI 88788	Rps 1-c	P	G	BR	IB
Kruger	K2X 15A9	1.5	RR	3 4	PI 88788	Rps 1-c	P	G	BR	IB
Kruger	K2X 15B9	1.5	RR	3 4	PI 88788	Rps 1-c	P	G	BR	IB
Kruger	K2X 15C9	1.5	RR	3 4	PI 88788	Rps 1-c	P	G	BR	IB
Kruger	K-163RR	1.6	RR	3 4		Rps 1-k	W	TW	TN	TN
Kruger	K2X 16A9	1.6	RR	3 4	PI 88788	Rps 1-k	P	G	TN	IB
Kruger	K-170 RR/SCN	1.7	RR	2 6	PI 88788	None	P	LTW	TN	BR
Kruger	K-189RR/SCN	1.8	RR	3 8	PI 88788	Rps 1-k	P	G	BR	IB
Kruger	K2-1901	1.9	RR	2 3 6 8	PI 88788	Rps 1-k	P	G	M	IB
Kruger	K-201RR/SCN	2.0	RR	2 3 8	PI 88788	Rps 1-c	M	TW	BR	B
Kruger	K2-2101	2.1	RR	2 3 7 8	PI 88788	Rps 1-c	P	G	TN	IB
Kruger	K2X 21A9	2.1	RR	2 3		None	M	LTW	TN	B
Kruger	K-239RR	2.3	RR	2		None	W	LTW	BR	B
Kruger	K2-2601	2.4	RR	2 7 8	PI 88788	Rps 1-c	P	G	TN	IB
Kruger	K-249RR/SCN	2.4	RR	2	PI 88788	None	W	LTW	BR	B
Kruger	K2-2501	2.5	RR	2 7 8	PI 88788	Rps 1-c	P	G	BR	IB
Kruger	K2-2701	2.7	RR	7	PI 88788	None	P	LTW	BR	B
Kruger	K2-2801	2.8	RR	7	PI 88788	Rps 1-c	P	G	TN	IB
Kruger	K-285 RR/SCN	2.8	RR	2 7 8	PI 88788	None	P	T	TN	B
Kruger	K2-2901	2.9	RR	7	PI 88788	Rps 1-c	P	G	BR	IB
Kruger	K2-2902	2.9	RR	7	PI 88788	Rps 1-c	P	G	TN	IB
NK Brand	S06-W2 Brand	0.6	RR	5			P	LTW	BR	BR
NK Brand	S08-A2 Brand	0.8	RR	5		Rps 1-c	P	TW	BR	G
NK Brand	S09-N6 Brand	0.9	RR	4 5		Rps 1-c	W	LTW	T	BR
NK Brand	S12-P4 Brand	1.2	RR	4 10		Rps 1-c	P	LTW	T	BR
NK Brand	S17-B5 Brand	1.7	RR	3 4		Rps 1-c	P	LTW	BR	B
NK Brand	S19-A6 Brand	1.9	RR	3	PI 88788		P	G	T	IB
NK Brand	S20-P3 Brand	2.0	RR	3		Rps 3-a	W	LTW	T	BR

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TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 5 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
NK Brand	S21-N6 Brand	2.1	RR	2 3 9		Rps 1-K	P	LTW	BR	BR
NK Brand	S25-T7 Brand	2.5	RR	2	PI 88788		W	LTW	BR	B
NK Brand	S27-C4 Brand	2.7	RR	2	PI 88788	Rps 1-k	P	LTW	T	B
NuTech	6145	1.4	RR	4						
NuTech	6152	1.5	RR	4						
NuTech	7154	1.5	RR	4						
NuTech	6166	1.6	RR	4						
NuTech	1717RN	1.7	RR	4	PI 88788					
NuTech	6175	1.7	RR	4						
NuTech	1808RN	1.8	RR	3 4 8	PI 88788					
NuTech	7199	1.9	RR	3 4						
NuTech	7201	2.0	RR	2 3 8	PI 88788					
NuTech	6211	2.1	RR	2						
NuTech	6224	2.2	RR	2 3						
NuTech	7222	2.2	RR	2 3 8	PI 88788					
NuTech	2324+RN	2.3	RR	2 3 8	PI 88788					
NuTech	6244	2.4	RR	2 3						
NuTech	7251	2.5	RR	2						
NuTech	2660RN	2.6	RR	2 8	PI 88788					
NuTech	7269	2.6	RR	2 8	PI 88788					
NuTech	7274	2.7	RR	2	PI 88788					
NuTech	6281	2.8	RR	2						
O'Brien	O'Soy 108C	1.8	CN	9 10						
O'Brien	O'Soy 183LL	1.8	LL	9 10						
O'Brien	O'Soy 250 RR	2.4	RR	2 3						
Pioneer Brand	90Y50	0.5	RR	5		Rps 1-k	P	LTW	BR	BR
Pioneer Brand	90Y80	0.8	RR	5			P	LTW	TW	BR
Pioneer Brand	91Y20	1.2	RR	4 5		Rps 1-k	P	LTW	BR	B
Pioneer Brand	91Y70	1.7	RR	3 4	PI 88788	Rps 1-k,-6	P	TW	T	B
Pioneer Brand	91Y80	1.8	RR	2 3 4	PI 88788	Rps 1-k,-6	W	LTW	T	B
Pioneer Brand	91Y90	1.9	RR	2 3 4			W	LTW	BR	BR
Pioneer Brand	92Y10	2.1	RR	2 3 4	PI 88788	Rps 1-k	W	LTW	BR	B
Pioneer Brand	92Y20	2.2	RR	2 8	Peking	Rps 1-k	P	TW	BR	B
Pioneer Brand	92Y30	2.3	RR	2 3 4	PI 88788	Rps 1-k	P	G	BR	IB
Pioneer Brand	92Y80	2.8	RR	2	PI 88788	Rps 1-k	P	LTW	BR	BR
Prairie Brand	PB-109X	1.0	RR	4	Susc.	Rps 1-c	P	LTW	M	BR
Prairie Brand	PB-129X	1.2	RR	4	Susc.	Rps 1-c	P	TW	BR	BR
Prairie Brand	PB-158X	1.5	RR	4	Susc.	None	P	G	BR	IB

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TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 6 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
Prairie Brand	PB-1725RR	1.7	RR	4	Susc.	Rps 1-k	P	TW	T	BR
Prairie Brand	PB-179X	1.7	RR	4	PI 88788	Rps 1-k	P	G	T	IB
Prairie Brand	PB-1918RR	1.9	RR	3	Susc.	None	P	LTW	BR	BR
Prairie Brand	PB-191X	1.9	RR	4	Susc.	Rps 1-c	P	G	BR	IB
Prairie Brand	PB-199X	1.9	RR	3	Susc.	Rps 1-c	P	G	T	IB
Prairie Brand	PB-203X	2.0	RR	3	Susc.	Rps 1-c	P	G	BR	IB
Prairie Brand	PB-2099NRR2	2.0	RR	3	PI 88788	Rps 1-c	P	G	T	IB
Prairie Brand	PB-214X	2.0	RR	3	Susc.	Rps 1-c	P	LTW	BR	BL
Prairie Brand	PB-228X	2.2	RR	3	Susc.	Rps 1-k	M	G	BR	IB
Public	MN 0302	0.3	CN	9 10						
Public	Hamlin	0.9	CN	9 10						
Public	Surge	0.9	CN	9 10						
Public	MN 1005	1.0	CN	9 10						
Public	SD 02-833	1.1	CN	9 10						
Public	MN 1410	1.4	CN	9 10						
Public	IA 1006	1.6	CN	9 10						
Public	MN 1701 CN	1.7	CN	9 10						
Public	IA 1008 BC	1.9	CN	9						
Public	IA 1022	1.9	CN	9 10						
Public	IA 2076	2.0	CN	9						
Public	SD 02-22	2.2	CN	9						
Renk	RS 107RR	1.0	RR	4 5						
Renk	RS 110R2	1.1	RR	4						
Renk	RS 120R2	1.2	RR	4						
Renk	RS 140NR2	1.4	RR	4						
Renk	RS 147RR	1.4	RR	4						
Renk	RS 150NR2	1.5	RR	4						
Renk	RS 160NR2	1.6	RR	3 4						
Renk	RS 170LL	1.7	LL	10						
Renk	RS 179NRR	1.7	RR	3						
Renk	RS 180R2	1.9	RR	3						
Renk	RS 190NR2	1.9	RR	3						
Renk	RS 200NR2	2.0	RR	3						
Renk	RS 210NR2	2.0	RR	3						
Renk	RS 223RR	2.1	RR	3		Rps 1-k	W	T	T	T
Renk	RS 230NLL	2.3	LL	9						
Renk	RS 259NRR	2.5	RR	2						
Renk	RS 270NR2	2.7	RR	2						

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TABLE 13. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 7 of 7)

Originator/ Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	SCN 3/ Source	PRR Genes 4/	Color 5/			
							Flower	Hair	Pod	Hilum
Renk	RS 277NRR	2.7	RR	2						
Viking	O.1692	1.6	CN	9	Susc.	S	P	T	TN	BR
Viking	O.1706N	1.7	CN	9	PI 88788	S	W	LTW	BR	B
Viking	2020N	2.0	CN	9	PI 88788	Rps 1-c	P	LTW	TN	B
Viking	O.2078N	2.0	CN	9	PI 88788	S	P	LTW	BR	B
Viking	O.2265	2.2	CN	9	Susc.	S	W	T	BR	BL

All characteristic information is provided by the originator.

1/ Herb. Toler.= Herbicide Tolerance: RR= Tolerance to glyphosate herbicide, STS = Tolerance to Sulfonylurea herbicides, LL= Tolerance to Ignite herbicide, CN= Conventional herbicide tolerance.

3/ Source of SCN Resistance; Susc.=Susceptible, Other = source unknown.

4/ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races listed in Introduction.

5/ B= Black, BF = Buff, BR= Brown, G= Gray, IB= Imperfect Black, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow, IY=Imperfect Yellow.