

2005

**WISCONSIN
SOYBEAN
VARIETY
TEST
RESULTS**

**Department of Agronomy
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Wisconsin Crop Improvement Association

University of Wisconsin - Extension



2005 WISCONSIN SOYBEAN VARIETY TEST RESULTS

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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 commercial and public cultivars were included for comparison.

Tests were conducted at all locations using conventional or reduced tillage practices. The white mold tests were planted at 225,000 seeds/acre, while the SCN and standard variety tests were planted at 175,000 seeds/acre, at row spacing as listed in Table 1. Tests were conducted with a randomized complete block design, in a split-block arrangement, with three or four replications. Table 1 also lists the combination of herbicides used for weed control in the conventional and glyphosate tolerant variety blocks.

Growing Conditions

Growing conditions for soybeans in Wisconsin ranged from poor to excellent in 2005. Adequate soil moisture and well distributed rainfall in May provided excellent conditions for early planting.

Good germination and emergence in most fields gave the crop a good start. Warm temperatures in June favored fast early growth of soybean plants particularly in no tillage systems. Rainfall in June and July did not keep pace with evapotranspiration and drought conditions developed in all regions of Wisconsin. The drought effect was more severe on light textured or compacted soils. Drought affected soybeans were shorter, had fewer pods and fewer beans per pod. The dry weather also promoted outbreaks of spider mites particularly in the eastern half of the Badger state. Spider mite control in some fields required multiple applications of insecticide. Soybean aphids reached threshold levels in several fields and in many cases were sprayed with insecticides. The rainfall remained below normal in August and September. However low, rainfall was well distributed over the growing season and supported fair to good soybean yield in most regions.

Soybean performance in 2005, confirmed research results showing that soybeans exposed to drought conditions during vegetative stages will develop a deeper and acclimate root system that can stand drier soil conditions during grain fill compared to soybean plants that developed in conditions with adequate moisture.

Average yields of entries at a test site compared to the long-term average can be used to compare growing conditions in a particular area. Yield comparisons at all test sites are shown in Table 1.

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 relative maturity of the variety.

Protein and Oil

Seed samples from all varieties grown in all locations and growing regions were collected and analyzed using a near infrared transmittance (NIRT) grain analyzer to determine composition values. Values shown in Tables 2 to 5 are regional averages, while the values in Tables 6 to 9 are site specific averages of individual replicate samples.

Soybeans are grown primarily for their protein and oil content. Most soybean growers think of a bushel of soybeans as 60 lbs of soybean grain. The crushing industry however views that same bushel as potentially 47.5 lbs of soybean meal and 10.7 lbs of oil. This gap in mindset is poised to disappear in the near future. Together, soybean growers and the crushing industry are primarily providers of protein for livestock production and oil for human use.

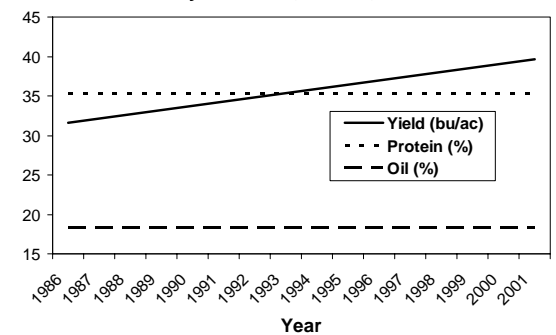
Increasingly sophisticated consumer demand will compel both growers and industry to establish mechanisms that would promote more desirable grain composition. Our goal in providing this information is to increase soybean value transparency so producers begin to consider the protein and oil content of varieties planted.

Selecting varieties that produce high quality soybeans enables Wisconsin growers to increase worldwide market access for soybeans and capture premium-based marketing opportunities. Market access and price premiums for specific grain composition are not the only motivations for growers to adopt grain composition as part of their variety selection criteria. The crushing industry has long considered regional grain composition averages as a criterion to adjust the price basis for each production region. Wisconsin soybeans have been marked at a discount price due to lower protein content.

Soybeans grown across the US averaged 35% protein and 19% oil in 2004 according to ASA-USB. Soybeans grown in the north are generally lower in protein than those grown in the south due to genetic and climatic factors. Wisconsin soybean growers can compensate for some of these geographical quality disadvantages by selecting soybeans with better genetic potential. The factor that influences protein the most that is under control of a producer is variety selection.

Soybean yields have increased an average of 0.4 bu ac⁻¹ since 1985.

Trends in US Soybean Yield, Protein, and Oil 1986-2001



During that same period however, US soybean grain composition has remained unchanged. Growing availability of higher protein and oil content soybean from South America increases the need for improved grain composition of US soybeans. 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.

Phytophthora Root Rot

There are many races of Phytophthora. Resistance genes are incorporated into varieties (see Tables 10 and 11) 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

Even though there are many races of Phytophthora, races 1, 3 and 4 are the most prevalent in Wisconsin. Resistance genes (Rps) are bred into varieties and provide complete resistance to specific races of Phytophthora. 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 Tables 12 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 not a widespread serious problem in 2005, but was present in scattered areas of the state. The reaction of soybean varieties to the

white mold pathogen is expressed as plant mortality and 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. This is especially true in 2005 as many plants were killed at later growth stages thus minimizing the effect on yield. Results of the trial are presented in Tables 6, 7, and 8.

Emerging Soybean Diseases

Sudden death syndrome (SDS) and stem canker (SC) were observed in 2005. The incidence and severity of SDS and SC were 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 soybean varieties and SDS and SC.

Soybean Rust

Soybean Asian Rust was not confirmed in Wisconsin in 2005. Soybean rust developed in the southeastern US and has been identified as far west as in eastern Texas on kudzu. It is not known whether soybean rust will infect Wisconsin grown soybeans in 2006. Consequently, growers might wonder about soybean variety options for 2006. Unfortunately, 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. Consequently, rust resistance should not be a criterion for selecting soybean varieties for 2006. Although all soybean varieties are believed to be susceptible, it seems that there are always pleasant surprises when new diseases emerge. Investigators in both the public and private sector should be prepared to evaluate as many soybean varieties as possible for response to soybean rust. Although complete resistance is likely present, partially resistant or tolerant varieties can be an important component of a management program.

Current information indicates that the soybean rust pathogen will not survive on dead soybean debris, thus soybean residue can not serve as a source of inoculum. There is no known reason for growers to change their tillage system due to the soybean rust threat in 2006. 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 also not be a management option.

This winter, soybean rust will be a primary target for educational programs delivered by Extension personnel. Prior to the discovery of soybean rust, this topic was already on the agenda for several meetings. The Wisconsin Corn-Soy Expo and the Wisconsin Fertilizer, Aglime, and Pest Management Conference are scheduled for soybean rust topics, and watch for special workshops and teleconferences as we develop an education plan.

There are many unknowns and the learning curve will be steep as we progress through the 2006 growing season. Please take advantage of every learning opportunity.

Soybean Cyst Nematode (SCN)

The 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. The 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 2005 SCN variety trial are presented in Table 9. Yield performance in the presence of SCN is an excellent means to select varieties for SCN infested fields. Many SCN resistant varieties also express resistance to brown stem rot. 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.

Soybean Viruses and Insects

Soybean aphid populations were variable in Wisconsin. Early indications suggested widespread problems but soybean aphid populations declined before reaching threshold in many areas. 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 in 2006. 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 beetles 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.

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 indicate 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.

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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://soybean.uwex.edu>. The UW Soybean Program website was recently updated and offer data sorting and customized display capability for ease of view, print, and download. Further disease information can also be obtained on the soybean plant health web site 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 2005 SOYBEAN TESTS

Location	Cooperators	Row Spacing	Soil Type	Soil Tests ¹		Pesticide Program ²		Planting Date	Harvest Date	Average Yield		
						CN Varieties	RR Varieties			2005	2004	04-05
Arlington Variety Trial	S. Kraak, J. Quimby	15"	Silt loam	pH: 7.2 P: 60	OM: 3.2 K: 213	PPI: Dul, Pur Post: Pnc, Asr, Hed	Dul, Pur Rnd, Hed	3-May	4-Oct	70	61	66
Arlington Late White Mold VT	S. Kraak	7.5"	Silt loam Irrigated	pH: 5.9 P: 178	OM: 4.2 K: 242	PPI: Dul, Pur Post: Frft, Har, Asr	Dul, Pur Frft, Har, Asr	9-May	5-Oct	61	43	52*
Chippewa Falls Variety Trial	J. Clark	15"	Silt loam	pH: 6.3 P: 31	OM: 2.1 K: 104	Pre: None Post: Pur, Har	None Pur, Har	20-May	18-Oct	40	41	41
Fond du Lac Variety Trial	K. Boelke, M. Rankin	15"	Silt loam	pH: 6.7 P: 27	OM: 4.0 K: 92	Pre: None Post: Pur, Asr, Har	None Rnd	4-May	11-Oct	66	25	46
Galesville Variety Trial	K. Congdon, J. Zander	15"	Silt loam	pH: 5.8 P: 31	OM: 3.5 K: 183	PPI: Dul, Pur Post: Pur, Asr, Har	Dul, Pur Rnd	21-May	17-Oct	68	62	65
East Troy SCN Variety Trial	B. David	30"	Sandy Loam	pH: 6.6 P: 62	OM: 4.2 K: 177	PRE: Dul, Frft Post: Frft, Asr, Har	Dul, Frft Frft, Asr, Har	18-May	18-Oct	43	41	42*
Hancock Variety Trial	J. Breuer, G. Humphrey	15"	Sand Irrigated	pH: 6.2 P: 88	OM: 0.9 K: 75	Pre: Cin, Lor Post: Frft, Har, Asr, Hed	Cin, Lor Frft, Har, Asr, Hed	16-May	19-Oct	48	41	45
Janesville Variety Trial	J. Stute	15"	Silt loam	pH: 6.6 P: 55	OM: 3.5 K: 205	PPI: None Post: Frft, Har, Asr	None Rnd	2-May	6-Oct	62	61	62
Lancaster Variety Trial	T. Wood	15"	Silt loam	pH: 7.2 P: 54	OM: 2.1 K: 126	PPI: Dul, Pur Post: Asr, Har	Dul, Pur Rnd	5-May	11-Oct	74	58	66
Marshfield Variety Trial	M. Bertram	15"	Silt loam	pH: 6.6 P: 39	OM: 2.5 K: 125	PPI: Frft, Dul Post: Asr, Har, Hed	Frft, Dul Asr, Har, Hed	24-May	21-Oct	48	36	42
Marshfield Early & Mid White Mold VT	M. Bertram	7.5"	Silt loam	pH: 6.5 P: 57	OM: 2.5 K: 144	PPI: Frft, Dul Post: Asr, Har	Frft, Dul Asr, Har	24-May	21-Oct	Early = 64 Mid = 67	32 31	48 49
Racine Variety Trial	B. Henderson	15"	Clay loam	pH: 5.8 P: 49	OM: 4.0 K: 210	Pre: None Post: Pur, Har, Asr	None Rnd	6-May	4-Oct	45	52	49
Seymour Variety Trial	M. Maass, K. Jarek	15"	Clay loam	pH: 6.4 P: 37	OM: 2.4 K: 195	Pre: None Post: Frft, Har, Asr	None Rnd	10-May	19-Oct	26	25	26
Spooner Dry Land VT	P. Holman	7"	Silt Loam	pH: 6.6 P: 22	OM: 2.3 K: 65	Pre: Dul, Snc Post: None	None Rnd	24-May	19-Oct	19	26	23
Spooner Irrigated VT	P. Holman	7"	Sandy Loam	pH: 6.4 P: 152	OM: 1.4 K: 156	Pre: Dul, Scn Post: Rptr, Hed	Dul, Scn Rptr, Hed	20-May	18-Oct	60	37	49
Sturgeon Bay Variety Trial	D. Weidman	15"	Silt Loam	pH: 6.7 P: 68	OM: 3.8 K: 117	Pre: None Post: Frft, Har, Asr	None Rnd	12-May	20-Oct	53	28	41

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

² Pesticide Abbreviations: CN= Conventional, RR= Tolerance to glyphosate herbicide, Asr= Assure, Cin= Cinch, Dul= Dual II, Frft= Firstrate, Har= Harmony, Hed= Headline (fungicide), Lor= Lorox, Pur= Pursuit, Rptr= Raptor, Rnd= Roundup, Snc= Sencor.

* Arlington Late White Mold and East Troy SCN were new sites in 2005, therefore Hancock site data was used for 2004.

TABLE 2. SOUTHERN REGION SOYBEAN TEST (Page 1 of 4)

Performance of Public and Commercial Entries at Four Southern Wisconsin Locations.

ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER, RAC=RACINE

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 4-Test Average						2005 Yields				2004 4-Test Average						8 -Test
				Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	ARL	JAN	LAN	RAC	Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	Ave. Yield bu/A
Public	IA 1006	1.6	CN	56	1.4	14-Sep	34.6	19.0	1775	70	47	62	43	54	3.0	18-Sep	35.4	18.0	1762	55
Public	IA 1008	1.7	CN	60	1.2	16-Sep	34.2	18.9	1899	66	55	68	* 49	52	1.8	20-Sep	36.4	17.4	1703	56
Public	MN 1801	1.8	CN	61	1.4	12-Sep	35.7	19.5	1982	63	55	75	* 49	51	2.3	16-Sep	37.3	17.8	1770	56
Public	HP 204	1.9	CN	52	1.8	18-Sep	38.5	17.9	1730	59	51	51	45	47	3.3	23-Sep	38.6	16.8	1574	49
Public	Vinton 81	2.0	CN	53	1.8	18-Sep	38.4	17.7	1775	59	52	59	43	46	3.0	23-Sep	38.7	16.7	1633	50
Public	IA 2008 R	2.1	CN	63	1.4	22-Sep	34.3	18.9	1988	69	62	69	* 50	54	3.0	27-Sep	35.8	17.7	1800	58
Public	IA 2021	2.1	CN	56	1.0	15-Sep	33.5	20.0	1783	63	54	69	38	59	2.6	21-Sep	34.9	18.4	1861	58
Public	IA 2053	2.1	CN	58	1.4	19-Sep	37.8	17.9	1934	68	49	71	43	54	2.6	22-Sep	38.8	16.9	1722	56
Public	IA 2041	2.3	CN	57	1.2	21-Sep	38.7	17.9	1962	63	56	70	40	50	2.0	22-Sep	39.9	16.4	1672	54
Public	Century 84	2.4	CN	54	1.0	21-Sep	37.1	18.2	1793	62	54	60	41	50	1.6	28-Sep	38.5	16.9	1641	52
Public	IA 2067	2.5	CN	61	1.2	17-Sep	38.8	18.1	2053	65	55	75	47							
Public	IA 2064	2.7	CN	58	1.7	22-Sep	37.2	19.4	1943	68	49	71	42							
Public	Dwight	2.9	CN	61	1.2	20-Sep	34.7	18.8	1951	67	61	68	47	54	1.8	27-Sep	36.4	17.6	1720	58
Asgrow	AG2106	2.1	RR	59	1.2	12-Sep	34.9	19.1	1885	67	57	71	39							
Asgrow	AG2203	2.2	RR	63	1.4	12-Sep	33.8	19.3	2028	66	* 67	72	46	53	2.1	23-Sep	36.7	17.5	1729	58
Asgrow	AG2205	2.2	RR	64	1.0	13-Sep	35.8	19.1	2080	73	62	79	43							
Asgrow	AG2403	2.4	RR	63	1.1	14-Sep	34.4	19.8	2036	71	60	79	41	60	1.1	22-Sep	35.4	18.5	1901	61
Brunner	BR-2401RR	2.4	RR	* 66	1.1	15-Sep	35.9	19.0	2149	* 74	* 65	77	47	56	1.7	26-Sep	36.6	17.8	1717	61
Brunner	EXP-2605RR	2.6	RR	* 65	1.0	19-Sep	35.8	19.1	2108	* 76	* 63	68	* 53							
Croplan	RT 1992	1.9	RR	63	1.0	15-Sep	34.7	19.6	2034	71	* 63	79	40							
Croplan	RT 2092	2.0	RR	62	1.0	17-Sep	34.7	19.5	1988	72	57	76	42	56	1.1	18-Sep	34.8	18.3	1787	59
Croplan	RT 2127	2.1	RR	62	1.0	14-Sep	34.1	19.7	1988	72	62	76	39	60	1.3	20-Sep	34.1	18.6	1889	61
Croplan	RT 2292	2.2	RR	61	1.1	21-Sep	34.0	19.3	1970	72	60	68	44	59	1.3	18-Sep	34.7	18.4	1850	60
Croplan	RT 2440	2.4	RR	* 65	1.1	15-Sep	35.9	19.2	2132	72	* 64	74	* 50	* 62	1.6	25-Sep	36.6	17.8	1938	* 64
Dahlco	4250 RR	2.5	RR	60	1.0	20-Sep	36.1	18.9	1992	67	59	73	42							
Dairyland	DSR-1900/RR	1.9	RR	61	1.0	17-Sep	35.9	18.8	1964	68	60	66	48							
Dairyland	DSR-199/RRSTS	1.9	RR/STS	63	1.1	11-Sep	35.9	18.8	2043	68	* 63	72	47	* 63	1.4	22-Sep	37.0	17.2	2005	* 63
Dairyland	DSR-234/RR	2.3	RR	* 67	1.0	15-Sep	36.0	19.3	2163	* 75	* 63	78	* 50	61	1.9	25-Sep	36.5	17.5	1916	* 64
Dekalb	DKB25-51	2.5	RR	64	1.1	18-Sep	33.0	19.9	2055	71	62	77	47	59	1.6	26-Sep	34.6	18.5	1842	* 62
Dekalb	DKB26-53	2.6	RR	* 66	1.1	20-Sep	35.0	19.1	2141	* 77	* 65	75	47							

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TABLE 2. SOUTHERN REGION SOYBEAN TEST (Page 2 of 4)

Performance of Public and Commercial Entries at Four Southern Wisconsin Locations.

ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER, RAC=RACINE

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 4-Test Average						2005 Yields				2004 4-Test Average						8 -Test
				Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	ARL	JAN	LAN	RAC	Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	Ave. Yield bu/A
Dyna-Gro	SX05824	2.4	RR	* 65	1.0	14-Sep	34.9	19.2	2109	71	* 63	71	* 53							
Dyna-Gro	39V26	2.6	RR	* 66	1.1	20-Sep	36.4	19.0	2167	69	60	77	* 57							
Dyna-Gro	37B28	2.8	RR	* 66	1.0	22-Sep	34.4	19.6	2125	* 75	* 64	73	* 50							
Farm Advantage	7244N	2.4	RR	* 66	1.0	15-Sep	35.3	19.7	2133	71	* 67	73	* 51							
Farm Advantage	7264	2.6	RR	64	1.2	21-Sep	34.5	19.4	2092	70	* 64	76	47	58	1.6	28-Sep	35.1	18.1	1795	61
Farm Advantage	7285N	2.8	RR	* 68	1.2	21-Sep	35.0	19.4	2246	* 75	* 66	74	* 57							
Farm Advantage	7295N	2.9	RR	* 66	1.0	21-Sep	35.7	19.3	2151	70	* 65	72	* 56							
FS Hisoy	X 05-18	1.8	RR	60	1.0	11-Sep	34.3	19.4	1928	64	56	78	43							
FS Hisoy	HS 2025	2.1	RR	62	1.0	17-Sep	33.9	19.4	1991	71	59	73	43	58	1.2	19-Sep	34.6	18.4	1867	60
FS Hisoy	HS 2345	2.3	RR	64	1.3	15-Sep	35.7	19.0	2086	71	* 65	75	45	* 63	1.8	26-Sep	36.5	17.5	1939	* 63
FS Hisoy	X 05-23	2.3	RR	* 67	1.0	13-Sep	34.5	19.2	2148	70	* 69	* 80	48							
FS Hisoy	HS 2555	2.5	RR	* 65	1.0	18-Sep	36.2	19.1	2133	72	62	* 82	44							
FS Hisoy	HS 2645	2.6	RR	* 67	1.1	20-Sep	35.7	19.2	2168	* 75	* 63	* 81	47	60	2.3	26-Sep	36.3	17.8	1885	* 63
FS Hisoy	X 05-27	2.7	RR	* 67	1.0	22-Sep	34.6	19.4	2148	* 74	* 63	* 81	* 49							
Garst	2018 RR	2.0	RR	59	1.1	14-Sep	35.4	19.1	1920	69	57	72	37	* 65	1.2	21-Sep	34.6	18.2	2030	* 62
Garst	2332 RR	2.3	RR	63	1.1	15-Sep	36.3	18.9	2056	69	60	78	44	61	1.8	26-Sep	36.9	17.3	1941	* 62
Garst	2560 RR	2.5	RR	* 65	1.1	18-Sep	36.3	19.0	2114	* 75	59	77	48							
Golden Harvest	H-2124 RR	2.1	RR	* 65	1.0	15-Sep	36.4	19.0	2141	71	60	77	* 52							
Golden Harvest	H-2448 RR	2.4	RR	* 68	1.0	14-Sep	35.8	19.2	2214	73	* 65	* 82	* 51	* 62	1.7	26-Sep	36.6	17.5	1972	* 65
Golden Harvest	H-2494	2.4	CN	64	1.0	20-Sep	34.7	19.5	2072	* 75	* 65	* 81	35	* 62	1.5	24-Sep	35.8	18.0	1918	* 63
Golden Harvest	H-2712 RR	2.7	RR	64	1.0	22-Sep	34.6	19.3	2061	73	* 65	67	* 49	59	1.6	28-Sep	35.2	18.0	1774	61
High Cycle	2223 RR	2.2	RR	* 66	1.1	16-Sep	33.7	19.7	2121	72	62	76	* 53	* 62	1.4	22-Sep	33.6	18.7	1904	* 64
High Cycle	2224 RR	2.2	RR	* 66	1.0	16-Sep	35.7	19.1	2140	71	* 67	73	* 52							
High Cycle	2245 RR	2.4	RR	64	1.1	12-Sep	35.0	19.3	2078	69	* 64	77	45							
High Cycle	2263 RR	2.5	RR	* 65	1.0	17-Sep	35.1	19.2	2114	71	62	79	48							
High Cycle	2274 RR	2.7	RR	* 65	1.2	19-Sep	34.2	19.2	2085	72	61	76	* 50	* 62	1.9	30-Sep	35.5	17.4	1923	* 63
High Cycle	2293 RR	2.9	RR	64	1.1	20-Sep	35.5	19.4	2097	* 76	* 63	67	* 50							
Hughes	221 RR	2.2	RR	64	1.0	16-Sep	35.9	19.2	2071	66	62	77	* 50							
Hughes	309 RR	2.3	RR	62	1.0	20-Sep	33.6	19.4	2015	73	* 65	73	38	57	1.2	18-Sep	34.7	18.4	1793	59
Hughes	405 RR	2.4	RR	64	1.1	13-Sep	35.7	19.0	2084	70	* 68	73	43	* 62	1.7	24-Sep	36.5	17.5	2015	* 63

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TABLE 2. SOUTHERN REGION SOYBEAN TEST (Page 3 of 4)

Performance of Public and Commercial Entries at Four Southern Wisconsin Locations.

ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER, RAC=RACINE

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 4-Test Average						2005 Yields				2004 4-Test Average						8 -Test Ave. Yield	
				Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	ARL	JAN	LAN	RAC	Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A		
Hughes	416 RR	2.4	RR	* 66	1.0	15-Sep	36.0	19.3	2173	69	* 68	77	48								
Hughes	567 RR	2.5	RR	62	1.2	17-Sep	35.3	19.0	2017	68	62	75	42								
Hughes	754 RR	2.7	RR	64	1.0	18-Sep	36.2	18.7	2092	68	60	* 80	47								
Kaltenberg	KB 226 RR	2.2	RR	64	1.2	16-Sep	36.1	18.9	2088	73	* 67	73	42								
Kaltenberg	XB 248 RR	2.4	RR	* 65	1.1	18-Sep	35.3	19.2	2120	* 74	* 66	76	44								
Kaltenberg	KB 256 RR	2.5	RR	62	1.0	16-Sep	35.2	19.5	2024	70	* 64	70	44								
Kaltenberg	KB 276 RR	2.7	RR	63	1.0	21-Sep	34.2	19.4	2047	70	* 67	71	45								
Kruger	K-192RR	1.9	RR	60	1.0	15-Sep	35.1	19.5	1941	* 74	56	71	39	58	1.5	18-Sep	34.7	18.4	1789		59
Kruger	K-1999	1.9	CN	64	1.2	13-Sep	33.9	19.1	2038	71	* 65	73	48								
Kruger	K-195+RR/SCN	2.0	RR	64	1.1	12-Sep	34.4	19.8	2073	66	* 68	73	47								
Kruger	K-212RR	2.1	RR	* 65	1.0	16-Sep	35.2	18.9	2095	70	* 65	75	* 50								
Kruger	K-211+RR	2.2	RR	61	1.0	18-Sep	34.6	19.4	1954	72	61	75	34	59	1.3	17-Sep	34.7	18.3	1820		60
Kruger	K-223+RR	2.2	RR	62	1.0	13-Sep	33.7	19.6	1993	66	* 65	75	40	* 65	1.3	19-Sep	34.1	18.5	2061		* 63
Kruger	K-2320SCN	2.3	CN	63	1.4	20-Sep	34.4	19.5	2040	72	61	73	46								
Kruger	K-233+RR	2.3	RR	* 67	1.0	14-Sep	36.0	19.0	2178	73	62	* 84	48	* 64	1.7	26-Sep	36.5	17.6	1975		* 65
Kruger	K-255RR	2.5	RR	* 66	1.1	16-Sep	35.9	19.2	2155	71	* 64	* 86	43								
Kruger	K-2552	2.7	CN	* 68	1.8	25-Sep	33.9	19.1	2132	73	62	* 84	* 51								
Kruger	K-273RR	2.7	RR	* 67	1.0	17-Sep	35.7	19.1	2182	72	* 65	* 81	* 49	* 62	2.3	29-Sep	36.3	17.7	1861		* 64
Kruger	K-289+RR	2.8	RR	62	1.0	21-Sep	34.5	19.4	2006	69	* 66	70	44								
Kruger	K-2918SCN	2.9	CN	64	1.2	24-Sep	36.6	18.4	2121	73	* 66	77	41								
Latham	497 RR BRAND	2.2	RR	* 67	1.1	15-Sep	34.4	19.5	2137	69	* 63	* 82	* 52	* 63	1.2	20-Sep	34.0	18.6	1988		* 65
Latham	L2646R BRAND	2.6	RR	* 65	1.0	18-Sep	34.0	19.3	2071	68	* 64	76	* 50								
LG Seeds	C 1920 N RR	1.9	RR	63	1.1	15-Sep	34.5	20.0	2047	67	* 67	76	41	* 62	1.3	21-Sep	35.2	18.7	2023		* 62
LG Seeds	C 2550 RR	2.5	RR	* 65	1.1	19-Sep	35.6	19.2	2092	72	* 65	71	* 50								
Midwest Seed	GRX 17-01-5	1.7	RR	58	1.0	11-Sep	34.1	19.4	1862	69	54	75	34								
Midwest Seed	GR 2332	2.3	RR	61	1.3	17-Sep	36.1	19.0	1999	71	62	70	42								
NK Brand	S23-Z3	2.3	RR	64	1.0	12-Sep	34.3	19.7	2070	* 74	* 68	75	40								
NK Brand	S25-B9	2.5	RR	62	1.2	19-Sep	34.9	19.4	1997	71	* 65	70	40								
NK Brand	S26-V6	2.6	RR	62	1.0	18-Sep	34.5	19.8	2012	70	61	70	47								
NK Brand	S27-T7	2.7	RR	59	1.0	17-Sep	35.0	19.7	1908	70	62	63	40	55	1.3	26-Sep	35.7	18.2	1688		57

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TABLE 2. SOUTHERN REGION SOYBEAN TEST (Page 4 of 4)

Performance of Public and Commercial Entries at Four Southern Wisconsin Locations.

ARL=ARLINGTON, JAN=JANESVILLE, LAN=LANCASTER, RAC=RACINE

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 4-Test Average						2005 Yields				2004 4-Test Average						8 -Test	
				Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	ARL	JAN	LAN	RAC	Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	Ave. Yield bu/A	
NuTech	NT-1909+ RR	1.9	RR	63	1.0	16-Sep	34.2	19.6	2018	72	58	75	45								
NuTech	NT-2002+ RR	2.0	RR	61	1.0	14-Sep	34.0	19.9	1960	67	* 64	75	39	* 62	1.2	19-Sep	33.9	18.6	1933		* 62
NuTech	NT-2202a+ RR	2.2	RR	* 65	1.0	15-Sep	33.4	20.2	2107	71	* 67	77	45								
NuTech	NT-2330+ RR	2.3	RR	64	1.4	17-Sep	35.2	19.4	2074	* 77	60	77	41								
NuTech	NT-2333+ RR	2.3	RR	* 68	1.0	11-Sep	34.8	19.2	2181	72	* 67	* 89	42								
NuTech	NT-2626+ RR	2.6	RR	62	1.1	17-Sep	35.8	19.4	2003	70	* 67	66	43								
O'Brien	OB 163 RR	1.6	RR	57	1.2	9-Sep	32.8	20.1	1826	59	56	73	41	55	1.3	14-Sep	34.2	18.2	1742		56
O'Brien	OB 182 RR	1.8	RR	63	1.0	14-Sep	35.1	19.5	2058	72	61	77	43	* 62	2.4	24-Sep	35.3	18.2	1957		* 63
O'Brien	OB 190 HP	1.9	CN	61	1.0	19-Sep	33.9	19.7	1938	71	57	74	40	53	1.5	26-Sep	40.0	17.1	1792		57
O'Brien	OB 211 RR	2.1	RR	* 65	1.0	19-Sep	34.2	19.5	2086	70	61	* 81	47	59	1.3	18-Sep	34.8	18.3	1852		* 62
Pioneer	92M30	2.3	RR	61	1.0	15-Sep	34.9	19.1	1976	67	61	74	40								
Pioneer	92M32	2.3	RR	64	1.0	15-Sep	34.2	19.6	2061	69	62	75	48								
Pioneer	92M40	2.4	RR	* 69	1.0	17-Sep	35.7	19.2	2245	* 75	* 69	* 80	* 50								
Pioneer	92M80	2.8	RR	* 66	1.0	18-Sep	35.6	19.9	2146	70	* 67	* 86	39	58	1.4	27-Sep	36.4	18.1	1791		* 62
Pioneer	92M91	2.9	RR	63	1.3	20-Sep	33.6	20.3	2043	73	* 63	68	48	* 63	1.3	28-Sep	34.5	19.2	1928		* 63
Prairie Brand	PB-1954RR	1.9	RR	63	1.0	13-Sep	34.2	19.6	2002	71	62	71	46								
Prairie Brand	PB-2141RR	2.1	RR	63	1.0	15-Sep	34.0	19.5	2057	71	* 65	71	46	61	1.2	18-Sep	34.0	18.6	1944		* 62
Prairie Brand	PB-2443RR	2.4	RR	* 65	1.1	16-Sep	36.0	18.9	2114	72	* 63	79	45	* 63	1.8	27-Sep	36.3	17.5	1959		* 64
Prairie Brand	PB-2565RR	2.5	RR	* 67	1.0	18-Sep	35.7	18.9	2174	* 75	62	* 86	43								
Renk	RS 253 RR	2.5	RR	* 65	1.1	17-Sep	36.1	19.1	2125	* 79	* 64	76	40	* 66	1.6	26-Sep	36.7	17.6	2002		* 65
Renk	RS 265 RR	2.6	RR	64	1.0	19-Sep	35.4	19.3	2079	73	* 63	73	45								
Renk	RS 272 RR	2.7	RR	61	1.1	18-Sep	35.7	19.6	1979	73	59	66	44	60	1.5	26-Sep	36.2	18.3	1822		60
Stine	2116-4	2.0	RR	60	1.1	16-Sep	34.0	19.4	1940	69	62	71	38	59	1.1	18-Sep	34.6	18.5	1803		59
Stine	2402-4	2.4	RR	* 69	1.0	15-Sep	34.7	19.2	2262	* 75	* 69	* 81	* 52								
Stine	2688-4	2.6	RR	64	1.0	17-Sep	35.9	19.2	2071	* 77	* 64	70	43								
Thompson Seeds	T-7205+ RR	2.0	RR	* 66	1.0	14-Sep	34.2	19.6	2118	71	62	* 81	48	* 62	1.3	20-Sep	34.1	18.5	1904		* 64
Thompson Seeds	T-7206+ RR	2.0	RR	61	1.0	13-Sep	34.2	19.6	1969	66	62	73	43								
Thompson Seeds	T-2100+ RR	2.1	RR	* 65	1.0	12-Sep	35.7	19.2	2121	* 74	* 69	70	47								
Thompson Seeds	T-2120+ RR	2.1	RR	64	1.1	12-Sep	35.4	18.9	2064	69	* 66	72	48								
Mean				63	1.1	17-Sep	35.1	19.3	2049	70	62	74	45	58	1.7	23-Sep	35.9	17.9	1835		60
LSD(0.10)				4	0.3	3	0.4	0.2	142	5	6	9	8	4	0.5	1	0.2	0.3	145		3

* 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.

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

TABLE 3. CENTRAL REGION SOYBEAN TEST (Page 1 of 4)

Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005			2004 3-Test Average						6-Test
				Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	FON	GAL	HAN	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
Public	MN 1005	1.0	CN	56	2.0	11-Sep	34.9	19.1	1808	61	61	45							
Public	IA 1006	1.6	CN	62	2.0	18-Sep	35.0	18.8	2009	* 69	68	49	41	1.7	23-Sep	35.5	17.8	1317	* 52
Public	IA 1008	1.7	CN	* 66	1.7	22-Sep	35.6	18.5	2133	66	* 70	* 62	40	1.5	26-Sep	36.6	17.4	1282	* 53
Public	MN 1801	1.8	CN	58	1.9	18-Sep	35.8	19.2	1910	61	61	52	* 44	1.3	19-Sep	37.5	17.7	1442	* 51
Public	HP 204	1.9	CN	51	2.8	23-Sep	38.5	17.6	1715	53	56	44	35	1.9	27-Sep	38.8	16.8	1170	43
Public	Vinton 81	2.0	CN	48	2.5	23-Sep	39.0	17.1	1607	54	52	37	34	1.8	27-Sep	39.0	16.5	1142	41
Public	IA 2021	2.1	CN	58	2.1	22-Sep	34.0	19.6	1865	65	66	43	* 44	1.7	26-Sep	35.3	18.3	1399	* 51
Asgrow	AG1502	1.5	RR	59	1.1	13-Sep	34.9	19.6	1916	58	68	50							
Asgrow	AG1903	1.9	RR	62	1.2	18-Sep	34.2	18.9	1964	* 69	68	48	* 43	1.1	23-Sep	35.3	17.4	1363	* 52
Asgrow	AG2106	2.1	RR	57	1.0	15-Sep	34.4	19.0	1828	62	68	41	* 46	1.1	24-Sep	35.8	18.0	1480	* 52
Asgrow	AG2205	2.2	RR	60	1.1	16-Sep	36.1	18.4	1977	* 72	60	49							
Asgrow	AG2403	2.4	RR	62	1.0	19-Sep	34.4	19.6	1997	66	* 73	46	* 45	1.0	29-Sep	35.6	18.3	1452	* 53
Brunner	BR-2101RR	2.1	RR	62	1.0	18-Sep	34.0	19.7	1986	68	68	49	41	1.1	24-Sep	34.7	18.4	1314	* 52
Brunner	BR-2102RR	2.1	RR	62	1.2	19-Sep	33.9	19.7	2001	* 70	* 71	46							
Croplan	RT 1445	1.4	RR	57	1.0	12-Sep	35.7	18.7	1867	64	63	44							
Croplan	RT 1741	1.7	RR	60	1.0	14-Sep	36.5	18.3	1956	* 69	64	46							
Croplan	RT 1784	1.7	RR	57	1.0	16-Sep	33.6	19.5	1801	65	67	38							
Croplan	RC 1820	1.8	RR	* 66	1.0	15-Sep	33.8	20.2	2125	68	67	* 62							
Croplan	RT 1992	1.9	RR	* 65	1.1	17-Sep	34.0	19.6	2073	* 76	* 73	45							
Croplan	RT 2092	2.0	RR	62	1.0	18-Sep	33.9	19.7	1981	* 71	* 72	42	* 43	1.1	24-Sep	34.6	18.4	1368	* 52
Dahlco	9154 RR	1.5	RR	58	1.0	16-Sep	36.1	19.2	1921	65	62	47	41	1.4	22-Sep	36.8	18.3	1358	50
Dahlco	4170 RRC	1.7	RR	58	1.5	16-Sep	35.0	19.2	1887	55	61	* 58							
Dahlco	3190 RR	1.9	RR	* 63	1.0	16-Sep	36.5	18.3	2073	66	* 74	50							
Dahlco	9213 RR	2.1	RR	60	1.0	17-Sep	33.8	19.6	1905	66	* 74	39							
Dahlco	4230 RRC	2.3	RR	61	1.2	21-Sep	36.2	18.5	2002	65	68	49							
Dairyland	DST17-001/RRSTS	1.7	RR	61	1.2	15-Sep	35.5	19.1	2020	65	66	53							
Dairyland	DSR-1900/RR	1.9	RR	59	1.0	21-Sep	36.2	18.1	1937	59	67	52							
Dairyland	DSR-199/RRSTS	1.9	RR/STS	* 64	1.1	17-Sep	36.4	18.4	2090	67	* 73	52	* 45	1.2	28-Sep	37.4	17.0	1441	* 54
Dairyland	DSR-221/RR	2.2	RR	61	1.0	18-Sep	36.4	18.4	2000	63	* 75	45	* 44	1.3	1-Oct	37.1	17.3	1431	* 53
Dekalb	DKB18-51	1.8	RR	57	1.1	15-Sep	33.7	19.4	1795	59	* 70	41							

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TABLE 3. CENTRAL REGION SOYBEAN TEST (Page 2 of 4)

Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005			2004 3-Test Average						6-Test
				Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	FON	GAL	HAN	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
Dyna-Gro	33X19	1.9	RR	* 67	1.0	16-Sep	34.5	20.0	2194	67	* 72	* 63							
Dyna-Gro	DG 3190 N RR	1.9	RR	54	1.2	22-Sep	34.8	19.1	1754	57	* 72	34							
Dyna-Gro	39P22	2.2	RR	* 64	1.1	20-Sep	34.2	19.6	2057	* 72	* 72	48	42	1.1	23-Sep	34.7	18.3	1334	* 53
Farm Advantage	7173	1.7	RR	53	1.1	17-Sep	34.0	19.7	1700	59	63	37							
Farm Advantage	7192	1.9	RR	62	1.0	20-Sep	34.1	19.6	1991	* 71	68	46							
Farm Advantage	7205	2.0	RR	59	1.4	20-Sep	35.3	18.9	1911	68	68	41							
FS Hisoy	X 05-18	1.8	RR	58	1.1	16-Sep	34.0	19.3	1852	62	66	45							
FS Hisoy	HS 2025	2.1	RR	59	1.0	19-Sep	33.8	19.7	1901	65	67	45							
Garst	1827 RR/STS	1.8	RR	54	1.0	12-Sep	36.0	18.8	1782	61	61	41							
Garst	2018 RR	2.0	RR	* 64	1.2	20-Sep	34.5	19.2	2066	68	* 73	51	* 43	1.0	23-Sep	34.8	18.3	1364	* 54
Golden Harvest	H-1516 RR	1.5	RR	56	1.0	13-Sep	34.4	19.4	1801	61	60	46							
Golden Harvest	H-1961 RR	1.9	RR	60	1.0	21-Sep	34.5	19.2	1947	68	68	45	* 43	1.1	25-Sep	35.0	18.1	1348	* 52
Golden Harvest	H-2124 RR	2.1	RR	59	1.1	20-Sep	36.3	18.5	1955	66	69	43							
High Cycle	2163 RR	1.6	RR	62	1.1	17-Sep	34.2	19.5	1977	67	66	52							
High Cycle	2184 RR	1.8	RR	58	1.8	19-Sep	35.9	18.7	1886	55	66	52							
High Cycle	2194 RR	1.9	RR	59	1.0	18-Sep	36.2	17.9	1932	67	* 72	39	42	1.3	29-Sep	36.7	16.9	1367	* 51
High Cycle	2222 RR	2.2	RR	* 63	1.0	21-Sep	34.0	19.6	2009	66	* 74	49	42	1.0	23-Sep	34.6	18.5	1321	* 52
High Cycle	2224 RR	2.2	RR	* 64	1.0	20-Sep	36.0	18.6	2081	* 71	65	* 55							
Kaltenberg	KB 187 RR	1.8	RR	60	1.0	18-Sep	33.8	19.8	1918	67	* 74	40							
Kaltenberg	KB 203 RR	2.0	RR	58	1.3	22-Sep	33.8	19.8	1870	66	69	40							
Kaltenberg	KB 206 RR	2.0	RR	* 63	1.1	17-Sep	35.8	18.7	2045	66	* 72	50							
Kaltenberg	KB 226 RR	2.2	RR	* 66	1.0	20-Sep	36.2	18.5	2184	* 72	* 74	53							
Kaltenberg	XB 248 RR	2.4	RR	* 69	1.3	24-Sep	36.0	18.7	2250	* 75	* 76	* 55							
Kruger	K-149+RR	1.4	RR	58	1.3	16-Sep	35.5	18.8	1872	65	64	44	* 43	1.3	25-Sep	36.1	17.6	1378	50
Kruger	K-177RR	1.7	RR	61	1.2	16-Sep	33.8	19.4	1952	67	* 70	47							
Kruger	K-192RR	1.9	RR	* 64	1.0	18-Sep	34.0	19.7	2063	* 71	* 71	51	* 44	1.1	24-Sep	34.3	18.5	1396	* 54
Kruger	K-1999	1.9	CN	* 68	1.5	17-Sep	35.1	18.5	2191	* 73	* 74	* 58							
Kruger	K-195+RR/SCN	2.0	RR	* 64	1.1	16-Sep	34.4	20.0	2102	68	64	* 61							
Kruger	K-212RR	2.1	RR	* 65	1.1	20-Sep	36.3	18.1	2108	* 70	* 72	53							
Kruger	K-211+RR	2.2	RR	61	1.1	19-Sep	34.1	19.7	1976	* 73	67	44	* 45	1.1	23-Sep	34.6	18.4	1447	* 53

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TABLE 3. CENTRAL REGION SOYBEAN TEST (Page 3 of 4)

Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005			2004 3-Test Average						6-Test
				Yield	Lodging	Maturity	Protein	Oil	Protein plus Oil	FON	GAL	HAN	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
Kruger	K-223+RR	2.2	RR	61	1.0	18-Sep	33.7	19.7	1937	* 70	65	47	* 47	1.0	25-Sep	34.1	18.4	1491	* 54
Kruger	K-2320SCN	2.3	CN	* 65	2.1	24-Sep	35.3	19.1	2136	68	67	* 61							
Kruger	K-233+RR	2.3	RR	* 64	1.0	22-Sep	36.3	18.4	2092	* 70	69	52	* 47	1.4	30-Sep	36.6	17.6	1521	* 55
Latham	L1763 BRAND	1.7	CN	* 65	1.8	20-Sep	34.9	18.5	2086	* 69	* 73	53							
Latham	L1840 BRAND	1.8	CN	* 65	1.7	14-Sep	35.3	18.7	2092	* 70	69	* 55	* 46	1.3	22-Sep	36.1	17.5	1462	* 55
Latham	L1935R BRAND	1.9	RR	59	1.0	21-Sep	36.1	18.1	1898	67	68	41							
Latham	L2045R BRAND	2.0	RR	62	1.0	18-Sep	35.8	18.7	2014	66	67	52							
LG Seeds	C 1400 RR	1.4	RR	60	1.0	13-Sep	34.5	19.7	1958	62	* 75	44							
LG Seeds	C 1717 RR	1.7	RR	58	1.3	15-Sep	34.1	19.3	1838	64	62	47							
NK Brand	S17-A1	1.7	RR	59	1.0	13-Sep	35.1	19.1	1912	60	63	53							
NK Brand	S17-P9	1.7	RR	59	1.6	14-Sep	33.8	18.9	1860	61	62	* 54							
NK Brand	S19-R5	1.9	RR	61	1.0	17-Sep	35.4	18.6	1971	61	* 72	50	* 45	1.0	19-Sep	35.7	17.8	1423	* 53
NK Brand	S19-V2	1.9	RR	58	1.0	18-Sep	34.1	19.4	1855	63	66	45	41	1.0	25-Sep	35.1	17.9	1304	49
NK Brand	S23-Z3	2.3	RR	* 67	1.8	17-Sep	34.5	19.1	2148	* 73	* 73	* 55							
NuTech	NT-1777+ RR	1.7	RR	58	1.2	15-Sep	33.9	19.4	1840	62	62	49							
O'Brien	OB 163 RR	1.6	RR	60	1.2	13-Sep	33.4	19.7	1895	67	67	45	40	1.0	20-Sep	34.1	18.5	1255	50
O'Brien	OB 182 RR	1.8	RR	60	1.4	19-Sep	34.8	19.4	1955	67	69	44	* 45	1.5	30-Sep	35.7	18.2	1458	* 53
O'Brien	OB 190 HP	1.9	CN	61	1.0	21-Sep	34.0	19.6	1953	65	* 70	48	38	1.4	3-Oct	40.0	16.6	1288	50
O'Brien	OB 211 RR	2.1	RR	59	1.0	20-Sep	34.0	19.7	1884	68	67	41	40	1.0	24-Sep	34.7	18.4	1279	50
Pioneer	91M60	1.6	RR	56	1.6	14-Sep	34.5	19.2	1803	60	58	50							
Pioneer	91M70	1.7	RR	57	1.2	12-Sep	36.0	18.5	1867	64	62	46							
Pioneer	91M91	1.9	RR	62	1.3	14-Sep	33.9	19.4	1985	* 70	59	* 57							
Pioneer	92M01	2.0	RR	* 68	1.5	16-Sep	36.5	18.3	2231	67	* 75	* 63							
Pioneer	92M32	2.3	RR	62	1.0	19-Sep	33.5	19.7	1978	65	* 75	46	* 48	1.0	27-Sep	34.2	18.5	1519	* 55
Prairie Brand	PB-1525RR	1.5	RR	58	1.0	15-Sep	34.5	19.6	1871	63	66	45							
Prairie Brand	PB-1725RR	1.7	RR	56	1.1	14-Sep	36.2	18.4	1841	60	58	51							
Prairie Brand	PB-1954RR	1.9	RR	* 63	1.3	18-Sep	35.0	19.0	2042	64	69	* 57							
Prairie Brand	PB-2141RR	2.1	RR	61	1.0	19-Sep	33.9	19.7	1945	* 73	65	44	* 47	1.0	26-Sep	34.3	18.5	1395	* 54
Renk	RS 185 RR	1.8	RR	* 63	1.0	18-Sep	33.9	19.6	2011	* 71	* 71	46							
Renk	RS 199 RR	1.9	RR	53	1.6	21-Sep	32.8	20.6	1690	63	65	31	* 44	1.4	26-Sep	34.8	18.8	1402	48

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TABLE 3. CENTRAL REGION SOYBEAN TEST (Page 4 of 4)

Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005			2004 3-Test Average						6-Test	
				Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	FON	GAL	HAN	Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	Ave. Yield bu/A	
Renk	RS 204 N RR	2.0	RR	* 64	1.1	17-Sep	34.3	20.0	2072	64	66	* 61								
Renk	RS 223 RR	2.2	RR	61	1.1	18-Sep	33.8	19.7	1950	* 72	* 71	40	* 45	1.0	24-Sep	34.3	18.5	1428		* 53
Renk	RS 234 RR	2.3	RR	* 64	1.0	18-Sep	34.1	19.6	2074	* 70	* 70	53								
Renk	RS 253 RR	2.5	RR	* 67	1.0	23-Sep	36.1	18.6	2192	* 75	* 77	49								
Stine	1300-4	1.3	RR	56	1.0	12-Sep	34.6	19.5	1822	60	63	45	* 45	1.1	23-Sep	35.4	18.4	1446		* 51
Stine	1683-4	1.6	RR	* 65	1.0	15-Sep	34.0	19.3	2075	67	* 73	* 54								
Stine	1918-4	1.8	RR	* 64	1.0	20-Sep	34.3	19.5	2060	* 70	* 73	49								
Vigoro	V196RRS	1.9	RR, STS	60	1.1	15-Sep	36.3	18.4	1964	* 69	63	48								
Vigoro	V21N6RR	2.1	RR	60	1.4	21-Sep	36.1	18.9	1972	66	* 70	44								
Vigoro	V234RR	2.3	RR	62	1.1	20-Sep	36.1	18.6	2049	64	* 74	49	* 44	1.5	30-Sep	36.8	17.4	1445		* 53
Viking	1776 RR	1.7	RR	58	1.1	15-Sep	34.0	19.7	1869	63	69	42								
Viking	2029 RR	2.0	RR/STS	62	1.0	16-Sep	36.2	18.4	2039	67	66	* 54								
MEAN				61	1.2	17-Sep	34.9	19.1	1963	66	68	48	43	1.2	25-Sep	35.7	17.9	1379		52
LSD(0.10)				6	0.5	5	0.6	0.3	202	7	7	9	5	0.5	5	0.7	0.4	162		4

* 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.

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

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

Performance of Public and Commercial Entries at Three North Central Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005 Yields			2004 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
Public	MN 0302	0.3	CN	31	1.0	5-Sep	35.6	19.2	957	31	35	26	28	1.1	12-Sep	35.8	18.1	891	29
Public	Surge	0.9	CN	35	1.0	16-Sep	38.0	18.5	1156	33	43	* 28	31	1.0	18-Sep	37.7	17.5	1028	33
Public	MN 1005	1.0	CN	34	1.0	10-Sep	35.1	19.1	1087	31	47	23							
Public	IA 1006	1.6	CN	* 40	1.0	23-Sep	34.9	18.9	1273	36	* 50	* 33	* 37	1.0	25-Sep	35.5	17.7	1192	* 39
Public	IA 1008	1.7	CN	39	1.0	24-Sep	35.5	18.5	1254	35	49	* 32	32	1.0	29-Sep	36.3	17.4	1039	36
Public	MN 1801	1.8	CN	36	1.0	23-Sep	36.0	19.0	1201	35	46	* 28	* 36	1.1	30-Sep	37.7	17.2	1186	36
Public	HP 204	1.9	CN	37	1.1	26-Sep	40.3	17.3	1259	36	44	* 32	34	1.1	2-Oct	38.5	17.0	1156	36
Public	Vinton 81	2.0	CN	38	1.1	27-Sep	39.7	17.0	1262	34	46	* 33	31	1.0	2-Oct	38.3	17.1	1028	34
Asgrow	AG0801	0.8	RR	38	1.0	14-Sep	35.2	18.7	1218	* 42	46	27	34	1.0	18-Sep	35.5	17.5	1094	36
Asgrow	AG1102	1.1	RR	39	1.0	19-Sep	35.0	18.5	1236	* 42	* 51	24							
Asgrow	AG1401	1.4	RR	37	1.0	19-Sep	35.5	19.2	1192	39	49	24							
Asgrow	AG1502	1.5	RR	39	1.0	18-Sep	35.5	19.4	1287	38	49	* 31							
Brunner	BR-1500RR	1.5	RR	39	1.0	23-Sep	36.0	18.6	1269	* 45	47	25	33	1.0	24-Sep	37.0	17.5	1096	36
Brunner	EXP-1504RR	1.5	RR	36	1.0	21-Sep	37.0	17.9	1176	35	47	25	34	1.0	29-Sep	36.1	17.8	1099	35
Brunner	EXP-1505RR	1.5	RR	36	1.0	26-Sep	36.6	18.2	1171	37	48	22							
Brunner	EXP-1705RR	1.7	RR	38	1.0	28-Sep	35.3	19.2	1245	37	49	* 29							
Brunner	BR-2101RR	2.1	RR	39	1.0	30-Sep	36.8	18.9	1272	38	* 53	26							
Croplan	RT 0899	0.8	RR	36	1.0	15-Sep	36.4	18.6	1161	37	46	24							
Croplan	RT 0907	0.9	RR	32	1.0	11-Sep	35.5	19.1	1038	31	45	21							
Croplan	RT 1121	1.1	RR	37	1.0	19-Sep	36.1	19.2	1220	41	49	22							
Croplan	RT 1445	1.4	RR	39	1.0	20-Sep	35.5	18.7	1287	* 46	46	26							
Croplan	RT 1460	1.4	RR	38	1.0	20-Sep	36.2	18.9	1238	40	47	26							
Croplan	RC 1820	1.8	RR	* 40	1.0	29-Sep	34.8	19.7	1315	39	* 54	* 28							
Dahlco	3050 RR	0.5	RR	38	1.0	11-Sep	36.5	18.6	1258	* 44	45	26							
Dahlco	9093 RR	0.9	RR	34	1.0	12-Sep	35.5	19.1	1073	34	47	20							
Dahlco	4120 RR	1.2	RR	39	1.0	25-Sep	33.8	18.9	1217	39	* 51	26							
Dairyland	DST14-000/RRSTS	1.4	RR/STS	36	1.0	20-Sep	36.8	19.0	1221	39	45	25							
Dairyland	DST14-001/RR	1.4	RR/STS	39	1.0	19-Sep	35.0	18.5	1242	39	* 51	27							
Dairyland	DSR-1500/RRSTS	1.5	RR/STS	* 41	1.0	19-Sep	35.7	18.7	1319	40	* 51	* 31	* 38	1.0	28-Sep	36.2	17.8	1238	* 40
Dairyland	DST15-001/RR	1.5	RR	39	1.0	22-Sep	36.5	18.2	1281	* 44	49	25							

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

Performance of Public and Commercial Entries at Three North Central Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005 Yields			2004 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
Dekalb	DKB10-52	1.0	RR	36	1.0	21-Sep	36.8	17.9	1157	40	47	22							
Dekalb	DKB18-51	1.8	RR	37	1.0	22-Sep	35.0	19.1	1197	38	49	25							
Dyna-Gro	32F12	1.2	RR	38	1.1	14-Sep	35.7	18.2	1216	41	47	25	35	1.0	20-Sep	36.2	17.6	1134	* 37
Dyna-Gro	SX05514	1.4	RR	36	1.0	21-Sep	35.8	18.6	1178	35	46	27							
Dyna-Gro	33X19	1.9	RR	* 41	1.0	27-Sep	35.1	19.7	1334	* 42	* 51	* 30							
Garst	1499 RR	1.4	RR	38	1.0	21-Sep	35.2	18.8	1224	39	48	27	34	1.0	23-Sep	35.7	18.1	1109	36
Garst	1821 RR	1.8	RR	39	1.0	26-Sep	36.6	18.7	1289	38	* 50	* 28							
Garst	1827 RR/STS	1.8	RR	* 40	1.0	26-Sep	36.0	18.5	1310	* 44	47	* 29							
Gold Country	2305 RR	0.5	RR	36	1.0	10-Sep	35.9	18.8	1146	35	45	27							
Gold Country	2509 RR	0.9	RR	* 40	1.0	16-Sep	36.0	18.8	1321	* 43	48	* 30	34	1.0	25-Sep	35.7	17.9	1089	* 37
Golden Harvest	H-1516 RR	1.5	RR	36	1.0	22-Sep	35.6	18.7	1176	* 42	44	23	35	1.0	25-Sep	35.8	18.1	1140	36
Golden Harvest	H-1961 RR	1.9	RR	38	1.0	30-Sep	36.3	18.6	1224	* 42	49	23	34	1.0	2-Oct	34.8	18.3	1106	36
High Cycle	2111 RR	1.1	RR	39	1.0	22-Sep	34.0	18.9	1197	* 42	49	25	35	1.0	22-Sep	34.0	17.7	1077	* 37
High Cycle	2143 RR	1.4	RR	39	1.0	25-Sep	36.3	18.5	1262	40	49	27							
Kaltenberg	KB 135 RR	1.3	RR	* 41	1.0	12-Sep	36.5	18.5	1348	* 45	48	* 30							
Kaltenberg	KB 155 RR	1.5	RR	37	1.0	23-Sep	36.1	18.6	1219	* 43	44	25							
Kaltenberg	KB 176 RR	1.7	RR	38	1.0	22-Sep	35.5	19.3	1242	39	49	27							
Kaltenberg	KB 194 RR	1.9	RR	* 40	1.0	27-Sep	35.1	19.8	1307	40	48	* 33	* 40	1.0	2-Oct	34.7	18.9	1276	* 40
Kaltenberg	KB 195 RR	1.9	RR	* 41	1.0	25-Sep	36.0	19.0	1348	* 44	* 50	* 30							
Kaltenberg	KB 206 RR	2.0	RR	* 40	1.0	29-Sep	36.5	18.3	1334	* 43	* 51	27							
Kruger	K-098RR	0.9	RR	38	1.0	14-Sep	36.2	18.6	1246	37	* 50	27	* 38	1.0	22-Sep	36.0	17.9	1222	* 38
Kruger	K-100RR	1.0	RR	36	1.0	21-Sep	36.5	19.0	1195	* 43	47	19							
Kruger	K-122RR	1.2	RR	38	1.0	15-Sep	35.2	19.0	1226	* 42	45	26							
Kruger	K-149+RR	1.4	RR	39	1.0	22-Sep	35.9	18.4	1265	* 44	* 50	22	33	1.0	29-Sep	36.1	17.8	1072	36
Kruger	K-177RR	1.7	RR	* 40	1.0	26-Sep	35.6	18.9	1293	41	* 50	* 29							
NK Brand	S12-B9	1.2	RR	35	1.0	21-Sep	37.6	18.8	1166	41	42	22							
NK Brand	S14-A7	1.4	RR	38	1.0	18-Sep	36.0	18.7	1218	40	* 51	23	35	1.0	24-Sep	35.6	17.8	1114	36
NK Brand	S14-K6	1.4	RR	37	1.0	18-Sep	36.0	18.5	1184	41	49	20							
NK Brand	S17-A1	1.7	RR	38	1.0	24-Sep	38.3	18.0	1242	* 44	47	22							
NK Brand	S17-P9	1.7	RR	39	1.0	20-Sep	35.5	18.4	1259	* 44	* 52	22	* 37	1.1	28-Sep	35.1	17.4	1173	* 38

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

Performance of Public and Commercial Entries at Three North Central Wisconsin Locations.
 CHP=CHIPPEWA FALLS, MAR=MARSHFIELD, SEY=SEYMOUR

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005 Yields			2004 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
NK Brand	S19-R5	1.9	RR	* 41	1.0	25-Sep	36.5	18.3	1340	* 42	* 52	* 29	* 37	1.0	28-Sep	35.9	17.7	1193	* 39
O'Brien	OB 163 RR	1.6	RR	39	1.0	18-Sep	34.9	19.4	1237	40	47	* 29	32	1.0	27-Sep	34.9	18.1	1025	36
O'Brien	OB 182 RR	1.8	RR	* 44	1.1	25-Sep	36.1	18.9	1445	* 48	* 52	* 33							
Pioneer	91M13	1.1	RR	36	1.0	12-Sep	36.5	19.1	1180	* 42	41	25							
Pioneer	91M51	1.5	RR	* 40	1.0	18-Sep	34.4	19.9	1287	* 44	46	* 29	33	1.0	25-Sep	35.8	17.9	1073	36
Pioneer	91M60	1.6	RR	* 40	1.0	20-Sep	35.1	19.0	1291	40	* 50	* 30							
Pioneer	91M70	1.7	RR	* 41	1.0	21-Sep	37.0	18.3	1336	41	* 51	* 30							
Prairie Brand	PB-0923RR	0.9	RR	39	1.0	16-Sep	36.0	18.8	1285	* 44	* 50	24	* 37	1.1	19-Sep	35.9	17.8	1187	* 38
Prairie Brand	PB-1294RR	1.2	RR	39	1.0	22-Sep	34.6	18.7	1231	* 45	49	24							
Prairie Brand	PB-1525RR	1.5	RR	39	1.0	21-Sep	36.1	19.2	1264	* 43	* 50	24							
Prairie Brand	PB-1725RR	1.7	RR	* 40	1.0	21-Sep	36.6	18.4	1319	* 43	* 50	* 28							
Renk	RS 095 RR	0.9	RR	38	1.0	19-Sep	36.2	18.1	1215	* 42	46	26							
Renk	RS 115 RR	1.1	RR	39	1.0	18-Sep	36.0	19.3	1274	* 46	48	23							
Renk	RS 165 RR	1.6	RR	39	1.0	24-Sep	35.7	18.7	1262	* 44	47	26							
Renk	RS 185 RR	1.8	RR	* 44	1.0	27-Sep	36.3	19.0	1446	* 47	* 51	* 35							
Stine	0943-4	1.0	RR	38	1.0	16-Sep	35.7	18.9	1250	* 46	46	23							
Stine	1300-4	1.3	RR	* 40	1.0	21-Sep	35.7	19.3	1319	* 46	49	26	* 36	1.3	29-Sep	35.5	18.5	1182	* 38
Stine	1683-4	1.6	RR	38	1.0	24-Sep	35.7	18.7	1221	* 44	49	21							
MEAN				38	1.0	20-Sep	36.0	18.8	1242	40	48	26	34	1.0	24-Sep	35.8	17.8	1099	36
LSD(0.10)				4	ns	4	0.8	0.5	131	6	4	7	4	0.2	4	0.6	0.4	116	3

* 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.

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

TABLE 5. NORTHERN REGION SOYBEAN TEST (Page 1 of 2)

Performance of Public and Commercial Entries at Three Northern Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005 Yields			2004 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
Public	Traill	0.0	CN	32	1.4	17-Sep	37.2	18.0	1044	11	45	39	24	1.1	23-Sep	37.6	16.3	783	28
Public	MN 0302	0.3	CN	42	1.2	24-Sep	36.0	18.9	1347	16	61	48	24	1.0	1-Oct	36.9	17.2	818	33
Public	Surge	0.9	CN	43	1.2	29-Sep	37.6	18.6	1422	22	* 67	40	* 35	1.4	7-Oct	37.5	17.0	1362	39
Public	MN 1005	1.0	CN	42	1.6	29-Sep	35.9	18.8	1349	20	57	48							
Brunner	BR-0703RR	0.7	RR	* 50	1.3	22-Sep	35.7	19.3	1631	21	* 68	* 62							
Brunner	BR-1003RR	1.0	RR	* 48	1.3	2-Oct	36.1	18.0	1553	* 23	* 68	54	29	1.7	11-Oct	36.8	17.4	1065	39
Croplan	RT 0899	0.8	RR	* 46	1.1	28-Sep	36.1	18.9	1504	* 25	55	* 59							
Croplan	RT 0907	0.9	RR	44	1.3	19-Sep	34.7	19.5	1407	20	* 66	47							
Croplan	RT 1121	1.1	RR	45	1.0	26-Sep	35.9	19.3	1483	* 23	65	48							
Dairyland	DSR-050/RR	0.5	RR	43	1.4	20-Sep	35.8	18.8	1409	19	59	52	* 33	1.3	2-Oct	35.8	17.8	1100	38
Dairyland	DSR-0701/RR	0.7	RR	43	1.3	23-Sep	35.2	19.1	1370	20	62	46							
Dairyland	DST09-002/RRSTS	0.9	RR/STS	* 47	1.3	22-Sep	35.2	19.4	1514	21	61	* 59							
Dairyland	DSR-1301/RR	1.3	RR	* 50	1.2	24-Sep	36.0	18.8	1628	20	65	* 65							
Dyna-Gro	33T06	0.6	RR	42	1.2	20-Sep	35.9	19.1	1358	17	57	52							
Dyna-Gro	32Y09	0.9	RR	44	1.2	20-Sep	34.7	19.3	1399	14	62	57							
Dyna-Gro	37A10	1.0	RR	* 48	1.1	25-Sep	36.3	18.6	1550	20	* 69	55							
Garst	0707 RR	0.7	RR	* 49	1.5	26-Sep	35.1	19.2	1554	21	64	* 61	* 31	1.4	6-Oct	35.8	17.8	1101	* 40
Garst	0999 RR	1.0	RR	* 47	1.3	2-Oct	35.9	18.1	1503	20	65	56							
Golden Harvest	H-0537 RR	0.5	RR	37	1.3	23-Sep	35.7	19.2	1206	16	52	44							
Golden Harvest	H-0544 RR	0.5	RR	38	1.0	17-Sep	35.2	19.3	1224	17	54	44							
Kaltenberg	KB 066RR	0.6	RR	* 48	1.3	25-Sep	34.9	19.3	1526	* 23	62	* 59							
Kaltenberg	KB 086 RR	0.8	RR	* 50	1.2	3-Oct	36.1	18.0	1608	22	* 73	55							
Kaltenberg	KB 094 RR	0.9	RR	* 52	1.4	23-Sep	35.5	19.5	1694	* 27	* 69	* 61	* 36	1.6	5-Oct	35.8	18.1	1313	* 44
NK Brand	S01-T5	0.1	RR	39	1.0	16-Sep	36.9	18.6	1285	22	46	49							
NK Brand	S08-C3	0.8	RR	* 46	1.1	26-Sep	34.9	19.1	1466	17	60	* 62							

Continued

TABLE 5. NORTHERN REGION SOYBEAN TEST (Page 2 of 2)

Performance of Public and Commercial Entries at Three Northern Wisconsin Locations.

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005 3-Test Average						2005 Yields			2004 3-Test Average						6-Test
				Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	SPD bu/A	SPI	STR	Yield bu/A	Lodging 1-5	Maturity date	Protein %	Oil %	Protein plus Oil lb/A	Ave. Yield bu/A
NK Brand	S08-R4	0.8	RR	41	1.1	26-Sep	35.7	18.2	1297	18	52	53	30	1.3	2-Oct	35.7	16.9	1046	35
NK Brand	S10-T1	1.0	RR	40	1.0	27-Sep	35.5	18.5	1284	15	53	53	* 34	1.1	3-Oct	35.5	17.1	1142	37
Pioneer	90M60	0.6	RR	43	1.3	17-Sep	35.7	19.0	1378	16	60	53	* 31	1.3	28-Sep	36.1	17.0	1040	37
Pioneer	90M61	0.6	RR	41	1.0	21-Sep	35.9	19.4	1345	15	59	49							
Pioneer	90M91	0.9	RR	42	1.1	23-Sep	35.7	18.7	1346	20	49	56							
Pioneer	91M13	1.1	RR	* 47	1.1	24-Sep	36.2	19.1	1524	19	* 66	55							
Renk	RS 052 RR	0.5	RR	43	1.1	21-Sep	36.0	19.6	1395	17	55	57							
Renk	RS 095 RR	0.9	RR	* 49	1.2	3-Oct	36.1	18.0	1556	21	* 73	52							
Stine	0916-4	0.9	RR	43	1.1	25-Sep	35.7	19.0	1389	21	55	54							
Stine	0943-4	1.0	RR	44	1.2	21-Sep	36.1	18.8	1428	20	61	52	* 32	1.6	11-Oct	36.7	17.1	1188	38
MEAN				44	1.2	23-Sep	35.8	18.9	1428	19	60	53	30	1.4	5-Oct	36.5	17.3	1089	37
LSD(0.10)				6	ns	6	0.7	0.3	191	4	7	7	5	0.4	4	0.7	0.4	160	4

* 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 , CN = Conventional herbicide tolerance.

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

TABLE 6. EARLY MATURITY (MG 0.0-1.4) SOYBEAN WHITE MOLD TEST

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

Originator/Brand	Entry	Maturity Herb. ¹		2005						2004						2-Year	
		Group	Toler.	Yield bu/A	White Mold ² %	Lodging 1-5	Protein %	Oil %	Protein plus Oil lb/A	Yield bu/A	White Mold ² %	Lodging 1-5	Protein %	Oil %	Protein plus Oil lb/A	Yield bu/A	White Mold ² %
Public	Trall	0.0	CN	54	7	3.3	37.9	17.0	1787	19	4	1.0	38.2	15.6	624	37	6
Public	MN 0302	0.3	CN	56	14	1.5	35.6	18.3	1822	29	3	1.5	36.3	17.4	925	43	8
Public	Surge	0.9	CN	60	50	2.5	38.3	17.7	1998	* 36	14	2.0	38.7	16.4	1195	48	32
Public	MN 1005	1.0	CN	58	41	3.5	36.7	18.0	1896								
Dairyland	DSR-1301/RR	1.3	RR	67	28	1.5	36.5	18.1	2192								
Dyna-Gro	32F12	1.2	RR	64	28	2.3	36.6	17.5	2064								
Dyna-Gro	SX05514	1.4	RR	67	13	1.0	37.4	17.4	2212								
Kaltenberg	KB 106 RR	1.0	RR	* 72	56	2.5	36.0	17.9	2331								
Kruger	K-098RR	0.9	RR	* 76	50	1.5	37.3	17.8	2492	* 38	9	2.5	35.7	17.4	1200	* 57	30
Kruger	K-100RR	1.0	RR	69	29	1.3	36.6	18.1	2266								
Kruger	K-122RR	1.2	RR	65	36	1.3	36.9	17.7	2139								
Kruger	K-141RR/SCN	1.4	RR	55	78	2.8	37.4	17.4	1803	29	55	2.5	36.8	17.2	950	42	66
Kruger	K-149+RR	1.4	RR	66	35	1.8	36.8	17.6	2158	28	11	2.0	37.5	16.9	921	47	23
Latham	L1330R BRAND	1.3	RR	65	53	2.0	33.7	18.3	2022								
NuTech	NT-0090+ RR	0.9	RR	62	14	2.3	37.0	18.3	2062								
NuTech	NT-0102+ RR	0.1	RR	65	15	1.0	36.4	17.9	2103								
NuTech	NT-0111+ RR	0.1	RR	56	11	2.0	36.1	18.4	1820								
NuTech	NT-0444+ RR/STS	0.4	RR	59	29	2.0	37.0	17.7	1941								
NuTech	NT-0616+ RR	0.6	RR	67	21	1.3	36.0	18.0	2178								
NuTech	NT-0686+ RR	0.6	RR	65	25	1.3	36.8	17.7	2113								
NuTech	NT-0747+ RR	0.7	RR	67	48	2.5	36.0	17.8	2173								
NuTech	NT-0939+ RR	0.9	RR	67	31	1.8	37.1	17.8	2193								
Pioneer	90M61	0.6	RR	64	14	1.0	35.6	19.1	2084								
MEAN				64	31	1.9	36.6	17.9	2080	32	10	1.7	36.7	16.7	1015	46	28
LSD(0.10)				5	18	0.8	0.6	0.3	164	5	10	0.6	0.5	0.4	168	4	13

* 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 7. MID MATURITY (MG 1.5-1.9) SOYBEAN WHITE MOLD TEST

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

Originator/Brand	Entry	Maturity Group	Herb. ¹ Toler.	2005						2004						2-Year	
				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	%
Public	IA 1006	1.6	CN	63	36	3.3	36.4	17.6	2044	* 41	8	2.5	36.7	16.8	1403	* 52	22
Public	IA 1008	1.7	CN	70	38	2.8	36.5	17.6	2282	36	6	1.5	37.5	16.5	1182	* 53	22
Public	MN 1801	1.8	CN	58	49	2.8	37.7	17.6	1915	30	16	2.3	40.3	15.8	1019	44	32
Brunner	BR-1500RR	1.5	RR	61	29	1.8	37.7	17.3	2028								
Dairyland	DSR-1500/RRSTS	1.5	RR/STS	65	34	2.5	37.0	17.4	2120								
Dairyland	DSR-1900/RR	1.9	RR	67	26	2.3	37.5	16.3	2148								
Dyna-Gro	33X19	1.9	RR	68	36	1.8	36.4	17.9	2228								
FS Hisoy	X 05-18	1.8	RR	* 74	20	2.5	35.5	18.2	2398								
High Cycle	2163 RR	1.6	RR	* 71	35	2.0	35.5	18.5	2302								
Kaltenberg	KB 176 RR	1.7	RR	69	24	2.3	36.1	18.2	2248								
Kaltenberg	KB 187 RR	1.8	RR	* 73	35	1.5	35.0	18.3	2334								
Kruger	K-166RR/SCN	1.6	RR	62	49	2.3	37.3	17.8	2043								
Kruger	K-177RR	1.7	RR	* 74	19	2.0	35.5	18.2	2370								
Kruger	K-188RR/SCN	1.8	RR	* 75	30	1.8	34.5	19.0	2399								
Kruger	K-192RR	1.9	RR	* 72	33	1.8	35.0	18.4	2296	33	16	1.0	36.0	17.0	1051	* 53	24
Kruger	K-1999	1.9	CN	64	55	2.3	36.3	17.3	2071								
Latham	E1756R	1.7	RR	* 77	26	2.3	35.7	18.2	2473								
Midwest Seed	GRX 17-01-5	1.7	RR	* 73	26	2.5	35.8	18.1	2350								
NK Brand	S19-V2	1.9	RR	64	19	1.3	35.2	17.8	2033	35	10	1.5	35.5	17.2	1108	* 50	14
NuTech	NT-1616+ RR	1.6	RR	59	60	1.5	36.8	17.2	1915								
NuTech	NT-1617+ RR/SCN	1.6	RR	61	70	3.0	36.6	17.8	1999								
NuTech	NT-1777+ RR	1.7	RR	* 75	20	2.3	35.3	18.5	2426								
NuTech	NT-1819+ RR/SCN	1.8	RR	66	45	3.0	36.5	17.7	2157								
NuTech	NT-1888+ RR/SCN	1.8	RR	62	41	2.5	36.7	18.0	2037								
NuTech	NT-1909+ RR	1.9	RR	66	34	1.8	35.2	18.2	2119								
Pioneer	91M51	1.5	RR	60	24	1.3	35.5	18.6	1957								
Pioneer	91M60	1.6	RR	67	34	2.5	36.1	17.7	2161								
Stine	1918-4	1.8	RR	63	23	1.8	35.4	18.1	2014	32	10	1.5	35.9	17.1	1027	48	16
MEAN				67	35	2.2	36.1	17.9	2174	31	21	1.8	37.1	16.7	1013	50	22
LSD(0.10)				6	14	0.8	0.6	0.4	187	4	14	0.6	0.4	0.3	140	4	10

* 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. LATE MATURITY (MG 2.0-2.9) SOYBEAN WHITE MOLD TEST (Page 1 of 2)**Performance of Public and Commercial Entries In White Mold Disease Field Environment at Arlington, WI.**

Originator/Brand	Entry	Maturity Herb. ¹ Group Toler.		2005						2004 ²						2-Year ²	
				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	%
Public	IA 2008 R	2.1	CN	53	10	1.8	34.7	18.6	1700	38	0	1.8	37.2	17.1	1252	46	5
Public	Titan	2.1	CN	53	15	1.5	34.8	18.7	1696	* 46	0	1.0	35.4	18.4	1490	50	8
Public	Dwight	2.9	CN	* 64	29	1.8	35.7	18.3	2087	42	1	1.0	36.4	17.5	1362	53	15
Brunner	BR-2401RR	2.4	RR	* 68	6	1.3	36.1	18.5	2228								
Brunner	EXP-2605RR	2.6	RR	59	11	1.3	35.5	18.6	1928								
Dairyland	DSR-218	2.1	CN	57	9	1.0	35.5	19.0	1872	* 51	0	1.0	35.1	18.9	1664	* 54	4
Dairyland	DSR-221/RR	2.2	RR	* 63	9	1.0	36.1	18.5	2048	* 46	0	1.0	36.7	18.2	1509	* 55	4
Dyna-Gro	39P22	2.2	RR	57	13	1.0	34.4	19.1	1833	41	0	1.0	36.7	17.2	1326	49	6
Dyna-Gro	SX05824	2.4	RR	* 67	8	1.3	35.8	18.5	2180								
Dyna-Gro	39V26	2.6	RR	60	16	1.3	36.8	18.2	1976								
FS Hisoy	HS 2025	2.1	RR	53	10	1.0	34.1	19.2	1711	39	0	1.0	35.1	18.0	1232	46	5
FS Hisoy	HS 2345	2.3	RR	59	6	1.0	35.6	18.8	1925	* 48	0	1.0	35.9	18.8	1586	* 54	3
FS Hisoy	HS 2456	2.4	RR	* 66	16	1.8	35.4	18.7	2126								
FS Hisoy	X 05-27	2.7	RR	58	14	1.0	34.7	19.1	1883								
Golden Harvest	H-2124 RR	2.1	RR	* 65	9	1.3	35.8	18.6	2118								
Golden Harvest	H-2448 RR	2.4	RR	* 66	9	1.3	36.0	18.6	2176	* 50	0	1.0	36.7	18.4	1656	* 58	4
Golden Harvest	H-2712 RR	2.7	RR	59	25	1.5	34.7	19.0	1908	42	1	1.0	34.8	19.0	1371	51	13
High Cycle	2222 RR	2.2	RR	60	8	2.0	34.1	19.3	1905	42	0	1.0	35.6	18.0	1356	51	4
High Cycle	2274 RR	2.7	RR	59	21	1.3	34.5	18.7	1872	* 50	0	1.0	34.6	18.3	1576	* 55	11
Kaltenberg	KB 203 RR	2.0	RR	45	10	1.3	33.3	19.6	1413								
Kaltenberg	KB 206 RR	2.0	RR	61	19	1.5	36.2	18.2	2001								
Kaltenberg	KB 226 RR	2.2	RR	* 66	13	2.0	35.8	18.5	2147								
Kaltenberg	KB 236 RR	2.3	RR	* 66	15	1.5	35.7	18.7	2158								
Kaltenberg	KB 247 RR	2.4	RR	* 67	21	1.5	35.4	19.0	2186								
Kruger	K-195+RR/SCN	2.0	RR	* 66	10	1.5	34.5	19.4	2145								

CONTINUED

TABLE 8. LATE MATURITY (MG 2.0-2.9) SOYBEAN WHITE MOLD TEST (Page 2 of 2)

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

Originator/Brand	Entry	Maturity Herb. ¹ Group Toler.		2005						2004 ²						2-Year ²		
				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	%	
Kruger	K-212RR	2.1	RR	* 62	14	1.0	36.1	17.7	1986									
Kruger	K-211+RR	2.2	RR	59	8	1.3	34.4	19.1	1880	38	0	1.0	35.9	17.7	1227	49	4	
Kruger	K-223+RR	2.2	RR	* 65	8	1.0	33.9	19.2	2071	* 49	0	1.0	34.3	18.8	1547	* 57	4	
Kruger	K-233+RR	2.3	RR	58	6	1.3	36.0	18.5	1911	* 47	0	1.0	36.5	18.2	1512	53	3	
Kruger	K-235RR/SCN	2.3	RR	* 66	13	1.3	35.5	19.0	2152									
Kruger	K-2552	2.7	CN	45	13	4.0	35.2	17.7	1433									
Kruger	K-255RR	2.5	RR	* 68	23	1.0	36.1	18.5	2229									
Kruger	K-266RR/SCN	2.6	RR	61	20	1.8	36.4	18.7	2019									
Kruger	K-273RR	2.7	RR	* 65	20	1.8	35.7	18.7	2120	* 52	1	1.0	36.8	18.0	1694	* 59	11	
Kruger	K-277+RR/SCN	2.7	RR	* 62	19	1.8	36.7	18.2	2034									
Kruger	K-287RR/SCN	2.8	RR	* 62	26	1.5	34.5	19.0	2001									
Kruger	K-289+RR	2.8	RR	61	24	2.0	35.0	19.0	1960									
Latham	L2336R BRAND	2.3	RR	* 63	10	1.5	36.2	18.4	2067									
Latham	L2646R BRAND	2.6	RR	61	13	1.3	34.3	18.8	1944									
Midwest Seed	GR 2332	2.3	RR	* 62	8	1.3	35.7	18.7	2020									
NuTech	NT-2222+ RR/SC	2.2	RR	* 66	10	1.5	34.7	19.4	2132									
NuTech	NT-2324+ RR/SC	2.3	RR	60	8	1.0	35.4	19.0	1960									
NuTech	NT-2424+ RR/SC	2.4	RR	* 65	15	1.8	35.5	18.5	2097									
Pioneer	92M91	2.9	RR	* 67	16	1.3	34.0	20.2	2191									
Stine	2116-4	2.0	RR	* 62	10	1.0	34.2	19.3	1983	* 44	0	1.0	36.3	17.4	1425	53	5	
MEAN				61	14	1.4	35.2	18.8	1987	43	0	1.0	36.2	17.9	1409	53	6	
LSD(0.10)				6	9	0.8	0.5	0.3	188	8	ns	0.6	0.7	0.4	245	5	5	

* 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 and data for 2004 was collected at Hancock WI.

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

TABLE 9. SOYBEAN CYST NEMATODE TEST

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

Originator/Brand	Entry	Maturity Group	Herb. Toler. ¹	2005								2004 ⁴				2-Year ⁴	
				Yield	Lodging	Protein	Oil	Protein plus Oil	Egg Counts ²		Pf/Pi ³	Yield	Lodging	Egg Counts ²		Pf/Pi ³	Yield
									Spring (i)	Fall (f)				Spring (i)	Fall (f)		
				bu/A	1-5	%	%	lb/A							bu/A		
Public	IA 1008	1.7	CN	47	1.0	35.3	18.9	1531	1493	2266	1.5	32	1.0	3400	2267	1	40
Public	MN 1801	1.8	CN	37	1.0	33.9	20.4	1186	2853	7867	2.8						
Public	IA 2008 R	2.1	CN	38	1.0	34.5	19.2	1228	2906	3733	1.3	25	1.0	6000	11866	2	32
Public	IA 2021	2.1	CN	26	1.0	33.3	20.3	843	3387	8880	2.6	26	1.0	273	12960	47	26
Dairyland	DST18-002/RR	1.8	RR	48	1.0	34.2	20.0	1550	2800	1600	0.6						
Dairyland	DSR-2100/RR	2.1	RR	30	1.0	36.4	19.2	1000	3147	5200	1.7						
FS Hisoy	HS 2036	2.0	RR	42	1.0	34.7	20.5	1379	2560	2453	1.0	* 48	1.0	1760	1587	1	45
FS Hisoy	HS 2456	2.4	RR	47	1.0	35.4	19.6	1541	1893	907	0.5						
FS Hisoy	HS 2656	2.6	RR	39	1.0	35.3	19.7	1297	3760	7307	1.9						
Garst	2359 RR/N	2.3	CN	43	1.0	33.5	20.8	1413	2213	2160	1.0						
High Cycle	2184 RR	1.8	RR	38	1.0	35.4	19.4	1252	3227	3067	1.0						
Kaltenberg	KB 116 RR	1.1	RR	33	1.0	31.7	20.2	1008	4107	9653	2.4						
Kaltenberg	KB 194 RR	1.9	RR	42	1.0	34.2	20.5	1372	1120	3600	3.2						
Kaltenberg	KB 265 RR	2.6	RR	39	1.0	34.8	20.1	1289	2267	7920	3.5						
Kruger	K-141RR/SCN	1.4	RR	40	1.0	35.5	19.1	1323	2587	5333	2.1	* 42	1.0	2373	3467	1	41
Kruger	K-166RR/SCN	1.6	RR	48	1.0	35.8	19.8	1607	2987	4293	1.4						
Kruger	K-188RR/SCN	1.8	RR	* 50	1.0	34.1	20.5	1635	2453	1307	0.5						
Kruger	K-195+RR/SCN	2.0	RR	43	1.0	34.7	20.4	1412	1760	573	0.3	39	1.0	2000	3947	2	41
Kruger	K-213RR/SCN	2.2	RR	34	1.0	36.6	19.0	1120	2800	9067	3.2						
Kruger	K-2320SCN	2.3	CN	* 58	1.0	34.5	20.1	1911	1733	1040	0.6	* 48	1.0	3200	1667	1	* 53
Kruger	K-235RR/SCN	2.3	RR	46	1.0	34.9	20.2	1533	1760	2827	1.6						
Kruger	K-236RR/SCN	2.3	RR	47	1.0	35.5	19.6	1563	3493	3440	1.0						
Kruger	K-266RR/SCN	2.6	RR	40	1.0	35.5	19.8	1319	1627	6827	4.2						
Kruger	K-277+RR/SCN	2.7	RR	41	1.0	36.6	19.0	1372	2667	4400	1.6						
Kruger	K-287RR/SCN	2.8	RR	47	1.0	35.7	19.1	1550	1973	2267	1.1						

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TABLE 9. SOYBEAN CYST NEMATODE TEST

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

Originator/Brand	Entry	Maturity Group	Herb. Toler.	2005								2004 ⁴				2-Year ⁴	
				Yield	Lodging	Protein	Oil	Protein plus Oil	Egg Counts ²		Pf/Pi ³	Yield	Lodging	Egg Counts ²		Pf/Pi ³	Yield
									Spring (i)	Fall (f)				Spring (i)	Fall (f)		
Kruger	K-2918SCN	2.9	CN	* 54	1.0	36.4	18.9	1806	3787	2373	0.6						
Kruger	K-292RR/SCN	2.9	RR	46	1.0	35.8	19.8	1543	2267	2027	0.9						
Latham	L2183R BRAND	2.1	RR	38	1.0	36.0	19.3	1278	1573	5493	3.5						
Latham	E2412RX	2.4	RR	42	1.0	36.7	18.5	1376	4667	3600	0.8						
Pioneer	92M01	2.0	RR	* 49	1.0	36.0	19.0	1626	4613	920	0.2						
Pioneer	92M30	2.3	RR	* 49	1.0	35.7	19.7	1624	2774	2800	1.0	* 41	1.0	973	2000	2	45
Pioneer	92M40	2.4	RR	45	1.0	35.5	19.7	1485	3307	1787	0.5						
Pioneer	92M92	2.9	RR	44	1.0	36.4	18.5	1433	4427	1600	0.4	* 47	1.0	786	587	1	* 46
Stine	1502-4	1.5	RR	40	1.0	35.0	19.8	1312	5147	4213	0.8						
Stine	1832-4	1.8	RR	47	1.0	34.5	20.5	1563	3893	2293	0.6						
Stine	2702-4	2.7	RR	44	1.0	36.4	19.4	1461	2027	2293	1.1	* 47	1.0	346	920	3	* 46
MEAN				43	1.0	35.2	19.7	1409	2835	3816	1.5	41	1.0	1992	2650	3	42
LSD(0.10)				9	ns	0.6	0.3	307				9	ns				7

* 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 Average number of eggs in one hundred cubic centimeters of soil composited by variety treatment.

³ Reproductive factor = final egg population (fall) / initial egg population (spring) and data for 2004 collected at Hancock site.

⁴ Data for 2004 collected at Hancock, WI.

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

TABLE 10. SEED SOURCE FOR PRIVATE SOYBEAN ENTRIES IN 2005

Brand	Company Name	Address	Phone	Website
Asgrow	Monsanto	4312 Carol Ave., Cortland, IL 60112	(815) 754-4809	http://www.monsanto.com/
Brunner	Brunner Seed Farm	W 3850 U.S. Hwy. 10, Durand, WI 54736	(715) 672-5887	
Croplan	Croplan Genetics	180 Lynne Trail, Oregon, WI 53575	(608) 516-4636	http://www.croplangenetics.com/
Croplan	Croplan Genetics	1984 S. Pinetree Rd., De Pere, WI 54115	(920) 362-0119	http://www.croplangenetics.com/
Dahlco	Dahlco Seeds	14730 15th St. SW, Cokato, MN 55321	(320) 286-5982	http://www.dahlco.com/
Dairyland	Dairyland Seed Company Inc.	P.O. Box 958, 3570 Hwy. H, West Bend, WI 53095	(800) 236-0163	http://www.dairylandseed.com/
Dekalb	Monsanto	4312 Carol Ave., Cortland, IL 60112	(815) 754-4809	http://www.monsanto.com/
Dyna-Gro	UAP/ Richter	1267 W. Washington, Pittsfield, IL 62363	(217) 257-6342	http://www.dyna-groseed.com
Farm Advantage	Farm Advantage	1275 Hwy. 69, Belmond, IA 50421	(641) 444-3344	http://www.farmadvantage.com
FS Hisoy	Growmark Inc.	1701 Towanda Ave., Bloomington, IL 61701	(309) 557-6399	http://www.fsseeds.com/
Garst	Garst Seed Company	2369 330th Street P.O. Box 500, Slater, IA 50244	(888) 464-2778	http://www.garstseed.com/
Gold Country	Gold Country Seed, Inc.	16506 Hwy. 15 N., Hutchinson, MN 55350	(800) 795-8544	http://www.goldcountryseed.com
Golden Harvest	Golden Harvest Seed Inc.	P.O. Box 248, Pekin, IL 61555	(563) 320-7461	http://www.goldenharvestseeds.com/
High Cycle	Trelay Seeds	11623 Hwy. 80, Livingston, WI 53554	(608) 943-6363	http://www.trelay.com/
Hughes	Hughes Seed Farms, Inc.	206 N. Hughes Rd., Woodstock, IL 60098	(815) 338-2480	http://www.hugheshybrids.com/
Kaltenberg	Kaltenberg Seed Farms	5506 Hwy. SR 19 P.O. Box 278, Waunakee, WI 53597	(608) 849-2301	http://www.kaltenbergseeds.com/
Kruger	Kruger Seed Company	33938 160th Ave. P.O. Box A, Dike, IA 50624	(800) 772-2721	http://www.krugerseed.com/
Latham	Latham Seed Company	131 180th St., Alexander, IA 50420	(641) 692-3258	http://www.lathamseeds.com/
LG Seeds	LG Seeds	N 8181 940th St., River Falls, WI 54022	(715) 821-7788	http://www.lgseeds.com/
Midwest Seed	Midwest Seed Genetics	612 E Dunlap Road, Kentland, IN 47951	(219) 479-6868	http://www.midwestseed.com/
NK Brand	Syngenta Seeds, Inc.	933 Fly Wheel Circle, DeForest, WI 53532	(608) 846-0664	http://www.nk.com/
NuTech	NuTech Seed Company	6131 North Fork Rd., Ames, IA 50010	(800) 368-9528	http://www.nutechseed.com
O'Brien	O'Brien Hybrids	552 Glenway Rd., Brooklyn, WI 53521	(608) 576-3685	
Pioneer	Pioneer Hi-Bred Intl., Inc.	99 Navaho Ave., Suite 101-A, Mankato, MN 56001	(507) 625-3045	http://www.pioneer.com/
Prairie Brand	Prairie Brand Seed Company	15 X Avenue, Story City, IA 50248	(515) 733-2101	http://www.prairiebrandseed.com/
Renk	Renk Seed	6800 Wilburn Rd., Sun Prairie, WI 53590	(608) 837-7351	http://www.renkseed.com/
Stine	Stine Seed Company	2225 Laredo Trail, Adel, IA 50003	(800) 362-2510	http://www.stinseed.com/
Thompson Seeds	Thompson Seeds Inc.	40321 130th Ave., Leland, IA 50453	(641) 567-3350	http://www.nutechseed.com
Vigoro	Royster-Clark Inc.	717 Robinson Rd. SE, Washington C. H., OH 43160	(740) 869-2181	http://www.vigorseeds.com/
Viking	Albert Lea Seed House	1414 W. Main, P.O. Box 127, Albert Lea, MN 56007	(507) 373-3161	http://www.alseed.com

TABLE 11. 2005 TEMPERATURE AND PRECIPITATION SUMMARY

LOCATION	TEMP. ¹ PPT. ¹	MAY		JUNE		JULY		AUGUST		SEPT.	
		AVE. TOTAL	DEP. DEP.	AVE. TOTAL	DEP. DEP.	AVE. TOTAL	DEP. DEP.	AVE. TOTAL	DEP. DEP.	AVE. TOTAL	DEP. DEP.
ARLINGTON ²	TEMP.	54.4	-4.0	72.0	4.6	72.1	0.7	70.4	1.0	66.0	4.6
	PPT.	3.35	-0.07	1.46	-2.58	4.42	0.56	3.07	-1.17	4.70	1.06
White Mold Irrigation		0.00		2.00		1.00		0.00		0.00	
CHIPPEWA FALLS (EAU CLAIRE)	TEMP.	55.1	-2.9	70.9	4.1	72.9	1.5	69.6	0.6	64.3	4.9
	PPT.	2.42	-1.27	6.94	2.67	2.35	-1.59	1.54	-3.14	3.82	0.08
EAST TROY (BURLINGTON)	TEMP.	52.6	-3.8	70.0	3.7	70.5	-0.5	70.3	1.4	66.4	5.9
	PPT.	1.85	-1.29	1.33	-2.63	2.39	-1.38	1.70	-2.36	2.46	-0.81
FOND DU LAC	TEMP.	53.8	-4.3	71.6	4.2	71.5	-0.5	70.5	0.7	60.7	-0.9
	PPT.	2.55	-0.38	2.05	-1.43	3.32	-0.20	3.21	-0.97	3.05	-0.45
GALESVILLE (TREMPEAU DAM #6)	TEMP.	56.6	-3.0	73.0	4.3	74.5	1.6	71.0	0.6	65.1	3.3
	PPT.	2.84	-0.88	2.58	-1.23	3.72	-0.70	5.20	0.65	4.67	0.83
HANCOCK ²	TEMP.	54.4	-4.0	71.6	4.6	72.2	1.3	70.3	1.5	64.1	3.5
	PPT.	3.01	-0.40	3.89	0.08	5.85	1.68	3.46	-0.82	3.96	0.29
Variety Irrigation	IN/A	0.00		2.00		2.35		3.40		1.00	
JANESVILLE (BELOIT)	TEMP.	55.8	-4.1	73.7	4.3	73.4	0.1	72.2	1.0	67.7	4.4
	PPT.	2.01	-1.37	1.96	-2.62	2.39	-1.42	4.20	-0.16	5.10	1.40
LANCASTER	TEMP.	55.2	-3.4	71.5	3.8	72.1	0.5	69.8	0.0	66.2	4.8
	PPT.	2.68	-0.94	6.64	1.93	5.53	1.33	4.17	-0.42	3.00	-0.19
MARSHFIELD ²	TEMP.	52.8	-4.3	70.2	4.4	71.0	1.0	68.6	0.5	63.1	3.9
	PPT.	1.86	-1.84	3.32	-0.82	1.74	-2.32	3.19	-1.12	6.65	2.63
White Mold Irrigation	IN/A	0.00		0.25		4.37		2.26		0.00	
RACINE	TEMP.	52.5	-2.3	68.9	3.8	73.1	1.9	73.9	3.4	68.6	5.6
	PPT.	2.23	-1.05	0.94	-2.74	2.02	-1.55	1.53	-2.54	2.72	-1.05
SEYMOUR (GREEN BAY)	TEMP.	54.1	-2.3	71.0	5.6	70.5	0.6	68.9	1.4	64.3	5.5
	PPT.	2.52	-0.23	3.44	0.01	1.46	-1.98	4.23	0.46	3.08	-0.03
SPOONER ²	TEMP.	54.2	-2.8	70.1	5.0	72.9	3.3	69.6	2.3	65.4	6.9
	PPT.	2.49	-0.61	7.12	3.14	0.33	-3.88	0.94	-3.70	3.50	-0.18
Variety Irrigation	IN/A	0.00		0.98		4.16		3.34		0.49	
STURGEON BAY	TEMP.	51.2	-3.0	68.4	4.7	71.3	2.3	71.4	3.6	64.9	4.9
	PPT.	1.88	-1.04	1.36	-2.13	2.93	-0.48	4.25	0.64	3.59	0.16

¹ TEMP. = Temperature, PPT. = Precipitation, AVE. = Average, DEP. = Departure from normal.

² Irrigation applied at Arlington, Hancock, Marshfield, and Spooner. IN/A = Inches/Acre

TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 1 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
Asgrow	AG0801	0.8	RR	4	P	TW	BR	B	Rps 1-k	
Asgrow	AG1102	1.1	RR	4	P	TW	BR	B	Rps 1-k	
Asgrow	AG1401	1.4	RR	4	P	TW	BR	B	Rps 1-k	
Asgrow	AG1502	1.5	RR	3, 4	P	LTW	T	BR		
Asgrow	AG1903	1.9	RR	3	W	G	T	G	Rps 1-k	
Asgrow	AG2106	2.1	RR	2, 3	P	LTW	T	B	Rps 1-k	
Asgrow	AG2203	2.2	RR	2	P	G	BR	IB	Rps 1-k	
Asgrow	AG2205	2.2	RR	2, 3	P	LTW	BR	B	Rps 1-k	
Asgrow	AG2403	2.4	RR	2, 3	P	TW	T	B	Rps 1-k	
Brunner	BR-0703RR	0.7	RR	5	P	LTW	T	BR		
Brunner	BR-1003RR	1.0	RR	5	P	LTW	T	BR		
Brunner	BR-1500RR	1.5	RR	4, 7	P	M	BR	B		
Brunner	EXP-1504RR	1.5	RR	4	P	LTW	BR	BR		
Brunner	EXP-1505RR	1.5	RR	4	P	TW	T	IB		
Brunner	EXP-1705RR	1.7	RR	4	P	TW	T	BR		
Brunner	BR-2101RR	2.1	RR	3, 4	P	M	T	B		
Brunner	BR-2102RR	2.1	RR	3	W	TW	T	T		
Brunner	BR-2401RR	2.4	RR	2, 8	W	LTW	T	B		
Brunner	EXP-2605RR	2.6	RR	2, 8	P	G	T	IB		
Croplan	RT 0899	0.8	RR	4, 5	P	LTW	BR	G	Rps 1-k	
Croplan	RT 0907	0.9	RR	4, 5	P	TW	T	BR	Rps 1-c	
Croplan	RT 1121	1.1	RR	4, 5	P	LTW	T	B	Rps 1-k	
Croplan	RT 1445	1.4	RR	3, 4	P	LTW	T	B	Rps 1-k	
Croplan	RT 1460	1.4	RR	4	P	TW	T	B	Rps 1-k	
Croplan	RT 1741	1.7	RR	3	P	LTW	T	BR	Rps 1-a	
Croplan	RT 1784	1.7	RR	3	P	TW	T	BR	Rps 1-k	
Croplan	RC 1820	1.8	RR	3, 4	P	G	T	IB	Rps 1-k	
Croplan	RT 1992	1.9	RR	2	W	TW	T	T		
Croplan	RT 1992	1.9	RR	3	W	TW	T	T		
Croplan	RT 2092	2.0	RR	2	W	TW	T	T		
Croplan	RT 2092	2.0	RR	3	W	TW	T	T		
Croplan	RT 2127	2.1	RR	2	W	LTW	T	BR	Rps 1-k	
Croplan	RT 2292	2.2	RR	2	W	TW	T	T	Rps 1-k	
Croplan	RT 2440	2.4	RR	2	P	LTW	T	BR		
Dahlco	3050 RR	0.5	RR	4						
Dahlco	9093 RR	0.9	RR	4						
Dahlco	4120 RR	1.2	RR	4						
Dahlco	9154 RR	1.5	RR	3	P	TW	BR	B	Rps 1-k	
Dahlco	4170 RRC	1.7	RR	3						
Dahlco	3190 RR	1.9	RR	3						
Dahlco	9213 RR	2.1	RR	3	W	LTW	T	BR	Rps 1-k	
Dahlco	4230 RRC	2.3	RR	3						
Dahlco	4250 RR	2.5	RR	2						
Dairyland	DSR-050/RR	0.5	RR	5	W	LTW	BR	BR		
Dairyland	DSR-0701/RR	0.7	RR	5	P	LTW	M	B	Rps 1-k	
Dairyland	DST09-002/RRSTS	0.9	RR/STS	5	P	G	BR	BF	Rps 1-k	
Dairyland	DSR-1301/RR	1.3	RR	5, 6	W	LTW	BR	B		

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TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 2 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
Dairyland	DST14-000/RRSTS	1.4	RR/STS	4	P	LTW	BR	B		
Dairyland	DST14-001/RR	1.4	RR/STS	4	P	LTW	T	B		
Dairyland	DSR-1500/RRSTS	1.5	RR/STS	4, 7	W	LTW	BR	B		
Dairyland	DST15-001/RR	1.5	RR	4	P	LTW	T	B/BR		
Dairyland	DST17-001/RRSTS	1.7	RR	3	M	LTW	BR	B		
Dairyland	DST18-002/RR	1.8	RR	9	W	LTW	BR	B	Rps 1-k	A
Dairyland	DSR-1900/RR	1.9	RR	2, 3, 7	W	LTW	M	B		
Dairyland	DSR-199/RRSTS	1.9	RR/STS	2, 3	W	LTW	BR	B	Rps 1-k	
Dairyland	DSR-2100/RR	2.1	RR	9	W	LTW	T	B		A
Dairyland	DSR-218	2.1	CN	8	P	G	BR	G	None	
Dairyland	DSR-221/RR	2.2	RR	3, 8	M	LTW	BR	B	Rps 1-k	
Dairyland	DSR-234/RR	2.3	RR	2	P	LTW	BR	B	Rps 1-k	
Dekalb	DKB10-52	1.0	RR	4	W	LTW	BR	B	Rps 1-k	
Dekalb	DKB18-51	1.8	RR	3, 4	P	T	T	BR	Rps 1-k	
Dekalb	DKB25-51	2.5	RR	2	P	G	T	IB	Rps 1-k	
Dekalb	DKB26-53	2.6	RR	2	P	G	T	IB	Rps 1-c	
Dyna-Gro	33T06	0.6	RR	5						
Dyna-Gro	32Y09	0.9	RR	5	P	T	T	BR		
Dyna-Gro	37A10	1.0	RR	5						
Dyna-Gro	32F12	1.2	RR	4, 6	W	G	T	Y		
Dyna-Gro	SX05514	1.4	RR	4, 7						
Dyna-Gro	33X19	1.9	RR	3, 4, 7						
Dyna-Gro	DG 3190 N RR	1.9	RR	3						
Dyna-Gro	39P22	2.2	RR	3, 8	W	T	T	T		
Dyna-Gro	SX05824	2.4	RR	2, 8						
Dyna-Gro	39V26	2.6	RR	2, 8						
Dyna-Gro	37B28	2.8	RR	2						
Farm Advantage	7173	1.7	RR	3	P	T	T	BR	Rps 1-k	
Farm Advantage	7192	1.9	RR	3	W	TW	T	T	None	
Farm Advantage	7205	2.0	RR	3	P	T	T	BR	Rps 1-a	
Farm Advantage	7244N	2.4	RR	2	P	T	T	BR	None	A
Farm Advantage	7264	2.6	RR	2	W	T	T	B	Rps 1-k	
Farm Advantage	7285N	2.8	RR	2	P	T	T	B	None	A
Farm Advantage	7295N	2.9	RR	2	P	T	T	B	Rps 1-c	A
FS Hisoy	X 05-18	1.8	RR	2, 3, 7	P	T	T	BR	Rps 1-k	
FS Hisoy	HS 2036	2.0	RR	9	P	G	T	IB	Rps 1-k	A
FS Hisoy	HS 2025	2.1	RR	2, 3, 8	W	TW	T	T		
FS Hisoy	HS 2345	2.3	RR	2, 8	P	LTW	BR	B	Rps 1-k	
FS Hisoy	X 05-23	2.3	RR	2	P	G	B	IB		
FS Hisoy	HS 2456	2.4	RR	8, 9	P	LTW	BR	B		A
FS Hisoy	HS 2555	2.5	RR	2	P	LTW	T	BR		
FS Hisoy	HS 2645	2.6	RR	2	P	G	T	IB	Rps 1-c	
FS Hisoy	HS 2656	2.6	RR	9	W	T	BR	B		A
FS Hisoy	X 05-27	2.7	RR	2, 8	W	T	T	B	Rps 1-k	
Garst	0707 RR	0.7	RR	5	P	G		Y	Rps 1-k	
Garst	0999 RR	1.0	RR	5	W	LTW		B	Rps 1-k	
Garst	1499 RR	1.4	RR	4	P	LTW		BR	None	

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TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 3 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
Garst	1821 RR	1.8	RR	4	W	LTW		BR	Rps 1-c	
Garst	1827 RR/STS	1.8	RR	3, 4	P	LTW		B	Rps 1-k	
Garst	2018 RR	2.0	RR	2, 3	W	LTW		BR	Rps 1-k	
Garst	2332 RR	2.3	RR	2	M	LTW		B	None	
Garst	2359 RR/N	2.3	CN	9	P	G		BF	None	
Garst	2560 RR	2.5	RR	2	P	G		IB	HRps 1-c	
Gold Country	2305 RR	0.5	RR	4	P	LTW	T	BR	Rps 1-k	S
Gold Country	2509 RR	0.9	RR	4	P	LTW	BR	BR		S
Golden Harvest	H-0537 RR	0.5	RR	5						
Golden Harvest	H-0544 RR	0.5	RR	5						
Golden Harvest	H-1516 RR	1.5	RR	3, 4	P	LTW	T	BR		
Golden Harvest	H-1961 RR	1.9	RR	3, 4	W	LTW	T	BR	Rps 1-k	
Golden Harvest	H-2124 RR	2.1	RR	2, 3, 8						
Golden Harvest	H-2448 RR	2.4	RR	2, 8	P	LTW	BR	B		
Golden Harvest	H-2494	2.4	CN	2	P	G	BR	BF		
Golden Harvest	H-2712 RR	2.7	RR	2, 8	W	TW	T	B	Rps 1-k	
High Cycle	2111 RR	1.1	RR	4	P	G	T	T	Rps 1-c	
High Cycle	2143 RR	1.4	RR	4						
High Cycle	2163 RR	1.6	RR	3, 7						
High Cycle	2184 RR	1.8	RR	3, 9						
High Cycle	2194 RR	1.9	RR	3	W	LTW	M	B	Rps 1-k	
High Cycle	2222 RR	2.2	RR	3, 8	W	TW	T	T	HRps 1-k	
High Cycle	2223 RR	2.2	RR	2	W	TW	T	BR	HRps 1-k	
High Cycle	2224 RR	2.2	RR	2, 3						
High Cycle	2245 RR	2.4	RR	2						
High Cycle	2263 RR	2.5	RR	2						
High Cycle	2274 RR	2.7	RR	2, 8	M	LTW	BR	B		
High Cycle	2293 RR	2.9	RR	2						
Hughes	221 RR	2.2	RR	2	P	LTW	BR	B		
Hughes	309 RR	2.3	RR	2	W	TW	T	T	Rps 1-k	
Hughes	405 RR	2.4	RR	2	P	LTW	BR	B		
Hughes	416 RR	2.4	RR	2	P	TW	BR	B		A
Hughes	567 RR	2.5	RR	2	W	LTW	BR	B		
Hughes	754 RR	2.7	RR	2	W	G	BR	B		A
Kaltenberg	KB 066RR	0.6	RR	5	P	T	BR	B	Rps 1-k	
Kaltenberg	KB 086 RR	0.8	RR	5	W	BR	LTW	B	Rps 1-k	
Kaltenberg	KB 094 RR	0.9	RR	5	P	BR	T	BR	Rps 1-a	
Kaltenberg	KB 106 RR	1.0	RR	6	W	BR	TW	BR		
Kaltenberg	KB 116 RR	1.1	RR	9	P	T	G	T		
Kaltenberg	KB 135 RR	1.3	RR	4	W	T	LTW	T	Rps 1-c	
Kaltenberg	KB 155 RR	1.5	RR	4	P	T	LTW	B	Rps 1-k	
Kaltenberg	KB 176 RR	1.7	RR	4, 7	P	T	TW	BR	Rps 1-k	
Kaltenberg	KB 187 RR	1.8	RR	3, 7	W	T	TW	T		
Kaltenberg	KB 194 RR	1.9	RR	4, 9	P	T	G	IB	Rps 1-k	
Kaltenberg	KB 195 RR	1.9	RR	4	P	BR	T	B		
Kaltenberg	KB 203 RR	2.0	RR	3, 8	W	T	TW	T	None	
Kaltenberg	KB 206 RR	2.0	RR	3, 4, 8	W	BR	LTW	B		

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TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 4 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
Kaltenberg	KB 226 RR	2.2	RR	2, 3, 8	P	BR	LTW	B		
Kaltenberg	KB 236 RR	2.3	RR	8	P	BR	LTW	B		
Kaltenberg	KB 247 RR	2.4	RR	8	P	LTW	BR	BR		
Kaltenberg	XB 248 RR	2.4	RR	2, 3	P	G	T	IB	Rps 1-c	
Kaltenberg	KB 256 RR	2.5	RR	2	P	BR	TW	B	Rps 1-k	
Kaltenberg	KB 265 RR	2.6	RR	9	W	TW	BR	B		
Kaltenberg	KB 276 RR	2.7	RR	2	W	T	TW	B	Rps 1-k	
Kruger	K-098RR	0.9	RR	4,6	P	LTW	BR	BR	None	
Kruger	K-100RR	1.0	RR	4,6	P	LTW	T	B	Rps 1-k	
Kruger	K-122RR	1.2	RR	4,6	P	LTW	BR	B		
Kruger	K-141RR/SCN	1.4	RR	6,9	P	TW	T	B	Rps 1-k	
Kruger	K-149+RR	1.4	RR	3, 4, 6	P	LTW	BR	BR	Rps 1-k	
Kruger	K-166RR/SCN	1.6	RR	7, 9	P	TW	BR	B		A
Kruger	K-177RR	1.7	RR	3, 4, 7	P	TW	T	BR	Rps 1-k	
Kruger	K-188RR/SCN	1.8	RR	7, 9	P	G	T	IB		A
Kruger	K-192RR	1.9	RR	2, 3, 7	W	TW	T	T	None	
Kruger	K-1999	1.9	CN	2, 3, 7	W	LTW	T	M		
Kruger	K-195+RR/SCN	2.0	RR	2, 3, 8, 9	P	G	T	IB	Rps 1-k	A
Kruger	K-212RR	2.1	RR	2, 3, 8	W	LTW	M	B	HRps 1-k	
Kruger	K-211+RR	2.2	RR	2, 3, 8	W	TW	T	T	HRps 1-k	
Kruger	K-213RR/SCN	2.2	RR	9	W	LTW	T	B		A
Kruger	K-223+RR	2.2	RR	2, 3, 8	P	LTW	BR	B	Rps 1-k	
Kruger	K-2320SCN	2.3	CN	2, 3, 9	W	LTW	T	BR	None	A
Kruger	K-233+RR	2.3	RR	2, 3, 8	P	LTW	BR	B	HRps 1-k	
Kruger	K-235RR/SCN	2.3	RR	8, 9	P	LTW	BR	BR	HRps 1-c	A
Kruger	K-236RR/SCN	2.3	RR	9	P	LTW	BR	B		A
Kruger	K-255RR	2.5	RR	2, 8	P	LTW	T	BR		
Kruger	K-266RR/SCN	2.6	RR	8, 9	M	G	BR	IB		A
Kruger	K-2552	2.7	CN	2, 8	P	LTW	BR	B	Rps 1-k	
Kruger	K-273RR	2.7	RR	2, 8	P	G	T	IB	Rps 1-c	
Kruger	K-277+RR/SCN	2.7	RR	8, 9	W	LTW	T	B	None	A
Kruger	K-287RR/SCN	2.8	RR	8, 9	W	LTW	T	B	Rps 1-c	A
Kruger	K-289+RR	2.8	RR	2, 8	W	T	T	B	Rps 1-k	
Kruger	K-2918SCN	2.9	CN	2, 9	P	G	BR	IB		A
Kruger	K-292RR/SCN	2.9	RR	9	P	LTW	BR	B		A
Latham	L1330R BRAND	1.3	RR	6	P	G	T	T	None	
Latham	E1756R	1.7	RR	7	P	TW	T	BR	Rps 1-k	
Latham	L1763 BRAND	1.7	CN	3	W	TW	T	M	None	
Latham	L1840 BRAND	1.8	CN	3	W	LTW	BR	B	None	
Latham	L1935R BRAND	1.9	RR	3	W	LTW	M	B	Rps 1-k	
Latham	L2045R BRAND	2.0	RR	3	W	LTW	BR	B	Rps 1-k	
Latham	L2183R BRAND	2.1	RR	9	W	LTW	T	B	None	
Latham	497 RR BRAND	2.2	RR	2	W	TW	T	BR	Rps 1-k	
Latham	L2336R BRAND	2.3	RR	8	M	LTW	BR	B	None	
Latham	E2412RX	2.4	RR	9	P	TW	T	B	None	
Latham	L2646R BRAND	2.6	RR	2, 8	M	LTW	BR	B	Rps 1-k	
LG Seeds	C 1400 RR	1.4	RR	3						
LG Seeds	C 1717 RR	1.7	RR	3						

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TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 5 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
LG Seeds	C 1920 N RR	1.9	RR	2	P	G	T	IB	Rps 1-k	
LG Seeds	C 2550 RR	2.5	RR	2						
Midwest Seed	GRX 17-01-5	1.7	RR	2, 7	P	TW	T	BR	Rps 1-k	
Midwest Seed	GR 2332	2.3	RR	2, 8	P	LTW	BR	B	Rps 1-k	
NK Brand	S01-T5	0.1	RR	5	P	TW	BR	IY	Rps 1-c	
NK Brand	S08-C3	0.8	RR	5	P	G	BR	G	Rps 1-c	
NK Brand	S08-R4	0.8	RR	5	W	TW	T	G	Rps 1-k	
NK Brand	S10-T1	1.0	RR	5	W	TW	T	G	Rps 1-k	
NK Brand	S12-B9	1.2	RR	4	P	G	BR	IB		
NK Brand	S14-A7	1.4	RR	4	P	TW	T	IY	Rps 1-c	
NK Brand	S14-K6	1.4	RR	4	P	TW	T	B	Rps 1-c	
NK Brand	S17-A1	1.7	RR	3, 4	W	TW	T	G	Rps 1-a	
NK Brand	S17-P9	1.7	RR	3, 4	P	LTW	T	B	Rps 1-c	
NK Brand	S19-R5	1.9	RR	3, 4	P	TW	T	B	Rps 1-a	
NK Brand	S19-V2	1.9	RR	3, 7	P	TW	T	Y	Rps 1-a	
NK Brand	S23-Z3	2.3	RR	2, 3	W	LTW	T	B	Rps 1-a	
NK Brand	S25-B9	2.5	RR	2	W	LTW	T	B	Rps 1-a	
NK Brand	S26-V6	2.6	RR	2	W	T	T	B	Rps 1-a	
NK Brand	S27-T7	2.7	RR	2	W	LTW	T	BR	None	
NuTech	NT-0102+ RR	0.1	RR	6						
NuTech	NT-0111+ RR	0.1	RR	6						
NuTech	NT-0444+ RR/STS	0.4	RR	6						
NuTech	NT-0616+ RR	0.6	RR	6						
NuTech	NT-0686+ RR	0.6	RR	6						
NuTech	NT-0747+ RR	0.7	RR	6						
NuTech	NT-0939+ RR	0.9	RR	6						
NuTech	NT-0090+ RR	00.9	RR	6						
NuTech	NT-1616+ RR	1.6	RR	7						
NuTech	NT-1617+ RR/SCN	1.6	RR	7						
NuTech	NT-1777+ RR	1.7	RR	3, 7						
NuTech	NT-1819+ RR/SCN	1.8	RR	7						
NuTech	NT-1888+ RR/SCN	1.8	RR	7						
NuTech	NT-1909+ RR	1.9	RR	2, 7						
NuTech	NT-2002+ RR	2.0	RR	2	W	T	T	T	Rps 1-k	
NuTech	NT-2202a+ RR	2.2	RR	2						
NuTech	NT-2222+ RR/SCN	2.2	RR	8						
NuTech	NT-2324+ RR/SCN	2.3	RR	8						
NuTech	NT-2330+ RR	2.3	RR	2						
NuTech	NT-2333+ RR	2.3	RR	2						
NuTech	NT-2424+ RR/SCN	2.4	RR	8						
NuTech	NT-2626+ RR	2.6	RR	2						
O'Brien	OB 163 RR	1.6	RR	2, 3, 4	P	T	G	BF	Rps 1-k	
O'Brien	OB 182 RR	1.8	RR	2, 3, 4	P	T	BR	B	Rps 1-k	
O'Brien	OB 190 HP	1.9	CN	2, 3	P	T	BR	Y	HRps 1-k	
O'Brien	OB 211 RR	2.1	RR	2, 3	W	T	T	T		
Pioneer	90M60	0.6	RR	5	P	TW	BR	BR	Rps 1-c	
Pioneer	90M61	0.6	RR	5, 6	P	TW	BR	BR	Rps 1-k	

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TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 6 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
Pioneer	90M91	0.9	RR	5	P	TW	T	BR	Rps 1-k	
Pioneer	91M13	1.1	RR	4, 5	P	TW	T	BR	Rps 1-k	
Pioneer	91M51	1.5	RR	4, 7	P	G	BR	BF	Rps 1-k	
Pioneer	91M60	1.6	RR	3, 4, 7	P	TW	BR	B	Rps 1-c	
Pioneer	91M70	1.7	RR	3, 4	W	LTW	T	BR	Rps 1-k	
Pioneer	91M91	1.9	RR	3	P	TW	BR	BR	Rps 1-k	B
Pioneer	92M01	2.0	RR	3, 9	P	LTW	BR	BR	None	A
Pioneer	92M30	2.3	RR	2, 9	P	TW	T	B	None	A
Pioneer	92M32	2.3	RR	2, 3	W	LTW	T	BR	Rps 1-k	
Pioneer	92M40	2.4	RR	2, 9	W	LTW	BR	B	Rps 1-c	A
Pioneer	92M80	2.8	RR	2	P	LTW	BR	B	Rps 1-k	
Pioneer	92M91	2.9	RR	2, 8	P	LTW	BR	B	Rps 1-k	
Pioneer	92M92	2.9	RR	9	P	LTW	BR	BR	None	A
Prairie Brand	PB-0923RR	0.9	RR	4	P	LTW	T	BR	Rps 1-k	
Prairie Brand	PB-1294RR	1.2	RR	4	P	G	T	T	Rps 1-c	
Prairie Brand	PB-1525RR	1.5	RR	3, 4	P	LTW	T	B	Rps 1-k	
Prairie Brand	PB-1725RR	1.7	RR	3, 4	P	TW	T	BR	Rps 1-k	
Prairie Brand	PB-1954RR	1.9	RR	2, 3	P	LTW	T	BR	Rps 1-a	
Prairie Brand	PB-2141RR	2.1	RR	2, 3	W	LTW	T	BR	Rps 1-k	
Prairie Brand	PB-2443RR	2.4	RR	2	W	TW	T	Y	Rps 1-k	
Prairie Brand	PB-2565RR	2.5	RR	2	P	G	T	IB	Rps 1-c	
Public	Trall	0.0	CN	5, 6	P	TW	BR	Y	None	
Public	MN 0302	0.3	CN	4, 6	P	G	T	BF	Rps 1-k	
Public	Surge	0.9	CN	4, 6	P	G	BR	IB	Rps 1	
Public	MN 1005	1.0	CN	3, 4, 5, 6					Rps 1-k	
Public	IA 1006	1.6	CN	2, 3, 4, 7	W	T	BR	B	None	
Public	IA 1008	1.7	CN	2, 3, 4, 7, 9	W	G	T	Y	None	A
Public	MN 1801	1.8	CN	2, 3, 4, 7, 9	P	G	BR	BF	Rps 1-c	
Public	HP 204	1.9	CN	2, 3, 4	P	G	T	Y	None	
Public	Vinton 81	2.0	CN	2, 3, 4	P	G	T	Y	Rps 1, 3, 6, 9	
Public	IA 2008 R	2.1	CN	2, 8, 9	W	G	T	BF	Rps 1-k	
Public	IA 2021	2.1	CN	2, 3, 9	W	TW	BR	B	Rps 1-k	
Public	IA 2053	2.1	CN	2	P	TW	BR	Y	None	
Public	Titan	2.1	CN	8	P	TW	BR	B	None	
Public	IA 2041	2.3	CN	2	P	G	BR	Y	None	
Public	Century 84	2.4	CN	2	P	TW	BR	B	Rps 1-a, Rps 1-k	
Public	IA 2064	2.5	CN	2	P		T	B	None	
Public	IA 2067	2.7	CN	2						
Public	Dwight	2.9	CN	2, 8	P	TW	BR	B	Rps 1-a	
Renk	RS 052 RR	0.5	RR	5						
Renk	RS 095 RR	0.9	RR	4, 5						
Renk	RS 115 RR	1.1	RR	4						
Renk	RS 165 RR	1.6	RR	4						
Renk	RS 185 RR	1.8	RR	3, 4						
Renk	RS 199 RR	1.9	RR	3	P	TW	T	BR	Rps 1-k	
Renk	RS 204 N RR	2.0	RR	3						
Renk	RS 223 RR	2.2	RR	3	W	T	T	T	Rps 1-k	
Renk	RS 234 RR	2.3	RR	3						

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TABLE 12. CHARACTERISTICS OF SOYBEAN VARIETIES (Page 7 of 7)

Originator /Brand	Entry	Maturity Group	Herb. 1/ Toler.	Performance Shown in Tables	Color 2/				PRR Genes 3/	SCN 4/ Source
					Flower	Hair	Pod	Hilum		
Renk	RS 253 RR	2.5	RR	2, 3	P	LTW	T	BR		
Renk	RS 265 RR	2.6	RR	2						
Renk	RS 272 RR	2.7	RR	2	P	LTW	T	B		
Stine	0916-4	0.9	RR	5	P	LTW	BR	B		
Stine	0943-4	1.0	RR	4, 5	P	LTW	T	BR	Rps 1-k	
Stine	1300-4	1.3	RR	3, 4	P	LTW	T	B	Rps 1-k	
Stine	1502-4	1.5	RR	9	P	TW	T	B		A
Stine	1683-4	1.6	RR	3, 4	M	TW	T	BR	Rps 1-k	
Stine	1832-4	1.8	RR	9	P	G	T	IB		A
Stine	1918-4	1.8	RR	3, 7	W	TW	T	T		
Stine	2116-4	2.0	RR	2, 8	W	TW	T	T	Rps 1-k	
Stine	2402-4	2.4	RR	2	P	LTW	T	B		A
Stine	2688-4	2.6	RR	2	P	LTW	T	BR		
Stine	2702-4	2.7	RR	9	W	LTW	T	B		A
Thompson Seeds	T-7205+ RR	2.0	RR	2	W	TW		T	Rps 1-k	
Thompson Seeds	T-7206+ RR	2.0	RR	2						
Thompson Seeds	T-2100+ RR	2.1	RR	2						
Thompson Seeds	T-2120+ RR	2.1	RR	2						
Vigoro	V196RRS	1.9	RR, STS	3	W	LTW	BR	B	Rps 1-k	
Vigoro	V21N6RR	2.1	RR	3	W	LTW	T	B		A
Vigoro	V234RR	2.3	RR	3	P	LTW	BR	B	HRps 1-k	
Viking	1776 RR	1.7	RR	3	P	TW	T	BR		
Viking	2029 RR	2.0	RR/STS	3	W	LTW	BR	B	Rps 1-k	

All characteristic information is provided by the originator.

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

2/ 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.

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

4/ Source of SCN Resistance; A=PI 88788, B=PI 54842 (Peking), C=PI 437654, D=PU-SCN 14, E="CystX", S=Susceptible, R?=Resistant; source unknown.



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2005 Organic Soybean Variety Trial Results

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About the Trials

The Wisconsin Organic Variety Trials are conducted to give soybean producers information on performance and characteristics of soybean varieties that could be used in an organic soybean production system. The trials were conducted using approved organic production practices at three sites certified for organic production. Seed used for the trials were non-GMO and either organically produced or untreated non-organic varieties for which there are food and feed grade markets. Organic agriculture as defined by the USDA is "an ecological production management system that promotes and enhances biodiversity, biological cycles, and soil biological activity. It is based on minimal use of off-farm inputs and on management practices that restore, maintain, or enhance ecological harmony."

Yield and Composition Results

Performance of Public and Commercial Entries at Three Wisconsin Locations
ARL=ARLINGTON, ETROY=EAST TROY, RSN=ROSENDALE

Originator/ Brand	Maturity Entry	Group	2005 3-Test Average					2005 Yields			2004 2-Test Average				5 test	
			Yield ¹ bu/a	Lodging ² 1-5	Protein %	Oil %	Protein plus oil ³ lb/a	ARL bu/a	ETROY bu/a	RSN bu/a	Yield bu/a	Lodging 1-5	Protein %	Oil %	Protein plus oil lb/a	Avg. Yield bu/a
Iowa	HP 204	1.9	44	1.5	36.9	18.3	1473	50	43	40	39	2.3	39.7	16.3	1318	42
Iowa	IA 1006	1.6	50	1.3	33.6	19.2	1567	59	50	39	42	1.9	35.9	17.8	1345	46
Iowa	IA 1010	1.9	50	1.0	35.2	18.0	1601	56	50	*45						
Iowa	IA 2053	2.1	50	1.3	37.7	18.0	1685	55	52	*44	48	2.0	39.7	16.3	1596	49
Iowa	IA 2067	2.0	46	1.2	37.5	18.3	1549	49	50	39						
Iowa	Vinton 81	2.0	43	1.3	37.0	17.8	1406	47	41	40	38	1.8	39.7	16.3	1281	41
Minnesota	MN 0302	0.3	37	1.2	34.4	19.6	1213	46	45	22						
Minnesota	MN 1005	1.5	41	1.3	33.1	19.9	1313	52	44	28						
NC+ Organics	1F44	1.4	46	1.0	36.9	18.1	1504	53	47	38	37	1.4	41.2	16.0	1270	42
NC+ Organics	2A12	2.1	*56	1.1	34.7	18.8	1807	*64	*55	*51						
NC+ Organics	2F11	2.1	52	1.2	33.2	19.5	1654	*63	*57	37	*51	1.0	35.8	17.6	1627	*52
Viking	O.1832	1.8	*57	1.3	33.2	19.8	1797	*66	*58	*45	45	1.0	35.2	18.2	1435	*51
Viking	O.2022	2.0	*56	1.0	33.2	19.6	1775	*64	*61	43	*51	1.2	36.2	17.6	1628	*54
Viking	O.2199	2.1	*54	1.0	35.2	18.3	1719	61	*54	*46						
Mean			49	1.2	35.1	18.8	1576	56	51	40	42	1.5	38.1	17.1	1401	47
LSD (0.10)			4	0.3	0.4	0.2	140	4	7	7	3	0.4	0.8	0.4	158	3

¹ Yields preceded by a "*" are not significantly different (0.10 level) than the highest yielding variety.

² Lodging score: 1=no lodging ... 5=all plants flat.

³ Total yield of protein and oil per acre

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

Seed Company Contacts

Iowa Foundation Seeds 515-292-3497
Minnesota Crop Improvement 800-510-6242
NC+ Organics 800-279-7999
Viking 800-352-5247



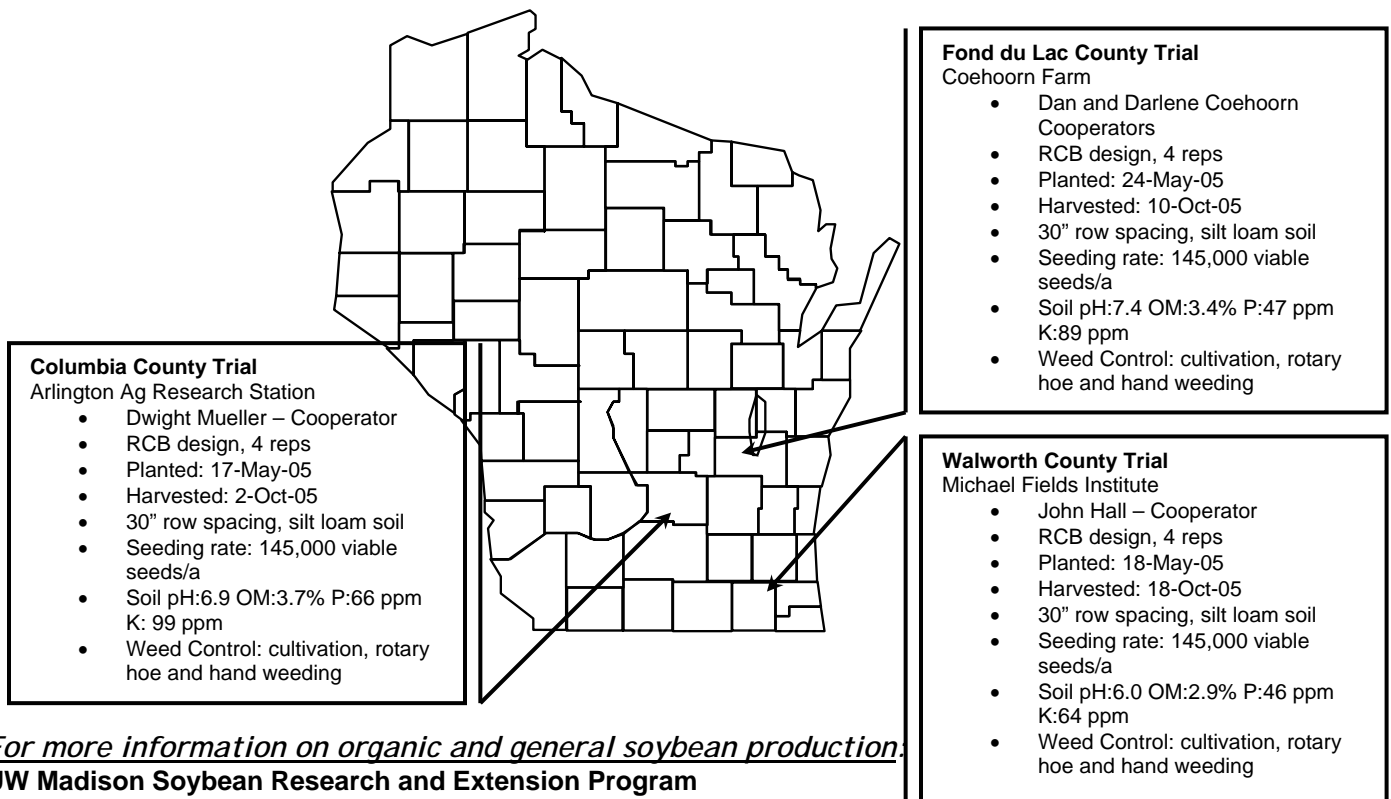
For more information, contact Dr. Roger Borges, 608-262-7975
UW Soybean Research and Extension Program - <http://soybean.uwex.edu/>
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Characteristics of Soybean Varieties

Originator/ Brand	Entry	Maturity Group	Hilum Color	Other Characteristics ¹
Iowa	HP 204	1.9	yellow	high protein, tofu type
Iowa	IA 1006	1.6	black	feed grade, avg protein
Iowa	IA1010	1.9	yellow	large seeded
Iowa	IA 2053	2.1	yellow	food grade
Iowa	IA 2067	2.0	yellow	high protein
Iowa	Vinton 81	2.0	yellow	high protein, tofu type
Minnesota	MN0302	0.3	buff	high protein, food grade
Minnesota	MN1005	1.5	buff	feed grade, avg protein
NC+ Organics	1F44	1.4	yellow	high protein, tofu type
NC+ Organics	2A12	2.1	brown	feed grade
NC+ Organics	2F11	2.1	yellow	high isoflavone, tofu type
Viking	O.1832	1.8	black	feed grade, avg protein
Viking	O.2022	2.0	yellow	food grade
Viking	O.2199	2.1	black	high protein

¹ Characteristics provided by variety originator.

Location of the 2005 Trials



For more information on organic and general soybean production:

UW Madison Soybean Research and Extension Program

<http://soybean.uwex.edu>

UW Madison Soybean Plant Health

<http://www.plantpath.wisc.edu/soyhealth>

National Organic Program, USDA

<http://www.ams.usda.gov/nop>