

1997 WISCONSIN SOYBEAN VARIETY TESTS

A3654

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The 1997 Report

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voluntarily entered, but numerous public cultivars are included for comparison.

Narrow row (7.5 inch) tests were conducted at all locations using conventional, reduced, or no-till tillage practices. In addition, a "Roundup Ready" variety test (Table 13) was initiated in 1997 and was conducted at three southern Wisconsin locations. Test site and growing conditions were similar for both the conventional and "Roundup Ready" tests. Seeding rate was 3.2 seeds/ft (225,000 seeds/acre). Tests were conducted in a randomized complete block design with four replications. Weeds in the conventional tests were controlled by a combination of herbicides, as listed in Table 1, while only Roundup was used in the "Roundup Ready" test.

Growing Conditions for 1997

The average yield of entries at a test site compared to the long-term average is an indication of overall growing conditions in a particular area (Table 1).

The 1997 Wisconsin soybean crop is the largest on record. Although air temperatures were below normal and rainfall was slightly above normal, state average yields are projected to be a record 44 bushels/acre. Combined with a record harvested acreage of 960,000 acres, Wisconsin's soybean production in 1997 will be over 42 million bushels or 31% more than in 1996.

Soybean planting was timely for most producers in Wisconsin. Cool soil temperatures

delayed emergence, especially under no-till conditions. However, soybean plants had ample moisture and plant growth was good to excellent resulting in dense plant canopies. Many fields were infected with white mold during the flowering period. Severe infection and reduced yields occurred frequently in many fields where high yields were anticipated. Considerable new information was obtained on variety tolerance to this disease which will be useful to growers making variety selections. See tables 7 and 11 for white mold information.

Some Wisconsin producers planted "Round-up Ready" soybeans for the first time in 1997. The University of Wisconsin conducted uniform variety tests on "Roundup Ready" soybeans also for the first time in 1997. Unbiased performance information on this new technology can be found in Table 13 of this report.

Yields were higher than normal at most locations, especially Janesville, Racine, Lancaster, Fond du Lac and Seymour. Yields were lower than normal at Galesville and Hancock due to the severe white mold infection. Overall, trial average yields ranged from 34 to 62 bu/acre with individual variety yields as high as 80 bu/acre.

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 a moisture content of 13 percent.

Height: Plant height was measured in inches from the soil surface to the tip of the main stem at harvest time.

The Wisconsin Soybean Variety Test is conducted each year to provide performance information to help farmers select superior varieties or brands for their farms.

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. No attempt was made to include commercial cultivars not

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 brown. Seven to ten days of drying weather are generally required before soybeans are ready to combine. Variety performance is presented by originator/brand, then from earliest to latest based on the maturity group of the variety.

Other Characteristics: Table 3 lists other identifying characteristics of the public entries and Table 4 gives identifying characteristics of commercial entries.

Phytophthora Root Rot

There are several races of this fungus. Genes which can be incorporated into varieties (see Tables 3 and 4) to provide complete or partial resistance to this disease are as follows:

<u>Gene</u>	<u>Races</u>
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
Rps4	1-4, 10, 12, 16, 18-21, 25
Rps3	1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25
Rps6	1-4, 10, 12, 14-16, 18-21, 25

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The information shown in Tables 3 and 4 is based on data from greenhouse tests conducted by the University of Wisconsin's Department of Plant Pathology, information supplied by the state releasing the variety, or information supplied by the companies.

Brown Stem Rot

This disease is currently considered to be the most yield limiting soybean disease in Wisconsin. This vascular disease inhibits translocation of water and nutrients to the top of the plant late in the season and is often confused with early maturity. Field evaluation of varieties were conducted at two southern Wisconsin locations under moderate to heavy BSR levels from 1991 through 1997. Results from 1996 and 1997 are shown in Table 10 of this report.

White Mold (Sclerotinia)

This disease which infects the plant at flowering time does not become evident until later in the season. Soybean performance tests at Galesville and Hancock (central-region) were slightly infected in 1995 and 1996, and heavily infected in 1997. Varieties entered at these sites were rated for tolerance (% incidence) and the results are shown in Table 7 of this report. Additional white mold tests using wide and narrow rows were conducted at Galesville and Arlington and results are shown in Table 11.

What the Results Mean

The performance of a variety may vary from year to year, even at the same location. Average performance over 2 or more years more accurately indicates the entries' general acceptability. When selecting a variety, consider lodging characteristics, plant height, maturity and disease resistance 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 and 3 out of 10 for the 0.30 value.

TABLE 1. GENERAL INFORMATION ON THE 1997 SOYBEAN TESTS.

Location	Cooperators	Soil Type	Soil Tests (1)		Herbicide Program	Herbicides (2)	Planting Date	Harvest Date	Ave. 1997	Yield 96-97
Arlington	S. Kraak, J. Quimby	Silt loam	pH: 6.7 P: 34	OM: 3.4 K: 240	Conventional	PPI: Dul, Pur (Notill also had: Rnd, 2,4-D)	May 6	Oct 6,9	52	55
					Round-up	Post:Rnd	May 6	Oct 7	51	na
Chippewa Falls	F. Thompson	Silt loam	pH: 5.9 P: 49	OM: 3.4 K: 155		PPI: Dul, Pur Post: Pst	May 6	Oct 10	54	50
Fond du Lac	M. Rankin, D. Boelke, D. Halbach	Silt loam	pH: 6.7 P: 38	OM: 4.9 K: 100		PRE: Dul, Pur Post: Bsg, Pst	May 12	Oct 6	61	57
Galesville	K. Congdon, D. Frame	Silt loam	pH: 6.1 P: 48	OM: 4.3 K: 245		PPI: Dul Post: Pur, Pnc	May 16	Oct 6,7	38	44.5
Hancock	J. Breuer G. Humphrey	Sand Irrigated	pH: 6.4 P: 115	OM: .9 K: 105		Pre: Lor, Las	May 13	Oct 8	45	53.5
Janesville	R. Jaynes, D. Nehring	Silt loam	pH: 6.6 P: 60	OM: 4.3 K: 240	Conventional	Post: Frtt, Dul Post: Bsg, Pst	May 7	Oct 1	65	61.5
					Round-up	Post:Rnd	May 7	Oct 1	67	na
Lancaster	T. Wood	Silt Loam	pH: 6.6 P: 31	OM: 2.8 K: 180		Pre: Pur, Prw Post: Asr	May 20	Oct 16	69	60.5
Marshfield	D. Wiersma, M. Cutts	Silt loam	pH: 6.7 P: 71	OM: 4.0 K: 270		PPI: Dul, Pur Post: Bsg, Pnc	May 13	Oct 11	48	na
Racine	Henderson Seed Farm	Clay loam	pH: 6.4 P: 52	OM: 5.8 K: 165	Conventional	PPI: Dul Post: Pur, Bsg	May 10	Oct 9	59	46.5
					Round-up	Post:Rnd	May 10	Oct 9	58	na
Seymour	R. Vanden Heuvel, J. Biese	Clay loam	pH: 7.2 P: 27	OM: 3.1 K: 140		PRE: Dul, Pur Post: Bsg, Pst	May 21	Oct 11	62	55.5
Spooner	R. Rand	Silt Loam	pH: 6.6 P: 22	OM: 2.8 K: 65		Pre: Snc, Las Post: Pst (2)	May 13	Oct 10	32	na
Valders	L. Berge, S. Hendrickson	Clay loam	pH: 7.4 P: 17	OM: 3.7 K: 145		PRE: Dul, Pur	May 22	Oct 10	49	48.5

(1) OM = Organic Matter in %, P and K in ppm.

(2) Herbicide Abbreviations: Asr-Assure, Bsg-Basagran, Dul-Dual, Frtt- Firstrate, Gal- Galaxy, Las-Lasso, Pnc-Pinnacle, Pst-Poast, Pur-Pursuit, Purplus- Pursuit Plus, Prl-Prowl, Rnd- Roundup Snc- Sencor.

TABLE 2. 1997 PRECIPITATION AND TEMPERATURE SUMMARY

LOCATION	TEMP. PPT.	MAY		JUNE		JULY		AUGUST		SEPT.	
		AVE.	DEP.	AVE.	DEP.	AVE.	DEP.	AVE.	DEP.	AVE.	DEP.
		TOTAL	DEP.	TOTAL	DEP.	TOTAL	DEP.	TOTAL	DEP.	TOTAL	DEP.
ARLINGTON	TEMP.	51.0	-6.9	68.4	1.6	69.4	-1.9	64.8	-4.1	60.7	-0.2
	PPT.	2.0	-1.1	4.9	1.1	6.0	2.6	3.2	-0.7	1.6	-2.7
CHIPPEWA FALLS (EAU CLAIRE)	TEMP.	52.5	-4.8	69.2	2.8	69.8	-1.7	66.9	-1.7	61.3	2.3
	PPT.	2.4	-1.4	3.9	-0.3	7.6	3.7	5.7	1.2	1.7	-2.2
FOND DU LAC	TEMP.	51.0	-6.5	67.5	0.5	69.2	-2.8	65.6	-3.9	61.4	0.1
	PPT.	1.7	-1.4	6.9	3.4	3.0	-0.2	3.5	-0.5	1.4	-2.4
GALESVILLE (TREMPEAU DAM #6)	TEMP.	53.4	-5.9	69.2	0.9	71.2	-1.7	67.8	-2.4	63.3	1.9
	PPT.	3.6	-0.2	2.3	-1.7	6.1	2.0	5.0	0.9	3.2	-1.1
HANCOCK **	TEMP.	50.7	-7.0	67.7	1.1	68.6	-2.3	64.2	-4.2	59.6	-0.5
	PPT.	3.2	-0.1	3.5	-0.2	8.0	4.4	3.1	-0.8	3.4	-0.8
	IRRIG.	0.3		2.6		3.8		3.0		0.0	
JANESVILLE (AFTON)	TEMP.	52.7	-7.6	69.2	-0.5	72.1	-1.8	67.5	0.5	62.4	-1.6
	PPT.	3.6	0.4	4.5	0.5	1.9	-2.2	2.8	-1.1	1.4	-2.0
LANCASTER	TEMP.	51.5	-6.8	67.9	0.2	69.8	-2.2	66.1	-3.7	61.0	-0.5
	PPT.	3.9	0.3	6.3	2.2	5.2	1.3	3.8	-0.6	2.3	-1.6
MARSHFIELD	TEMP.	50.1	-5.9	67.5	2.9	68.5	-0.8	63.9	-2.9	60.1	1.9
	PPT.	3.0	-1.1	3.4	-0.6	5.1	1.1	2.1	-1.9	2.1	-2.5
RACINE	TEMP.	49.8	-5.1	63.6	-1.7	69.7	-1.3	67.8	-2.1	63.9	1.2
	PPT.	3.7	0.7	3.3	-0.3	2.5	-1.3	4.6	1.0	2.7	-1.1
SEYMOUR (GREEN BAY)	TEMP.	49.1	-6.4	64.3	-0.2	66.4	-3.3	63.7	-3.4	60.1	1.1
	PPT.	2.6	-0.2	5.5	2.1	2.1	-1.0	5.8	2.3	2.0	-1.5
SPOONER	TEMP.	51.4	-4.5	67.4	3.0	68.3	-1.2	64.9	-1.7	60.3	2.7
	PPT.	1.9	-1.2	3.4	-0.5	5.2	1.5	4.0	-0.2	4.9	1.1
VALDERS (MANITOWOC)	TEMP.	48.4	-5.7	64.6	0.8	68.2	-1.6	66.1	-2.2	56.2	-4.4
	PPT.	2.2	-0.6	3.8	0.7	2.0	-1.0	3.2	-0.1	1.6	-1.8

* TEMP. = Temperature, PPT. = Precipitation, AVE. = Average, DEP. = Departure from normal, IRRIG. = Inches of irrigation applied.

** Irrigation applied at Hancock

TABLE 3. CHARACTERISTICS OF PUBLIC SOYBEAN VARIETIES

ORIGINATOR	ENTRY	PERFORMANCE	MATUR-	RE-	COLOR 2/				SEED 3/	DISEASE RESISTANCE				SEED /9			
		SHOWN IN	ITY		LEASED	FLOWER	HAIR	POD		HILUM	PRR 4/	BSR5/	SCN6/		SCL7/	PVP 8/	FOR
		TABLES	GROUP1/							LUSTER	GENES						
MINNESOTA	GLACIER	8,9	00.8	1995	P	TW	BR	Y	I	Rps 6a	-	-	-	YES	NO		
MINNESOTA	AGASSIZ	8,9	0.0	1992	P	G	BR	BF	D	Rps 1a	S	S	-	YES	YES		
MINNESOTA	MN 0301	7,8,9	0.3	1997	P	G	BR	Y	D	Rps 1a	-	-	-	YES	NO		
MINNESOTA	LAMBERT	6,7,8,9,11	0.8	1992	P	G	BR	BF	S	Rps 1a	S	S	H	YES	YES		
MINNESOTA	DASSEL	6,7,8,9,11,12	0.9	1986	P	G	BR	Y	D	Rps 6	S	S	M	YES	NO		
MINNESOTA	MN 1301	6,7,8,9,11	1.3	1997	W	G	BR	Y	D	Rps 1a	-	-	-	YES	NO		
MINNESOTA	HODGSON 78	6,7,9,11	1.4	1978	P	G	BR	BF	D	Rps 1a	S	S	M	YES	NO		
MINNESOTA	MN 1401	6,7,8,11,12	1.4	1998	P	TW	T	B	D	Rps 1a	-	-	-	YES	NO		
MINNESOTA	PARKER	6,7,8,10,11,12	1.5	1992	W	G	BR	BF	D	Rps 1a	S	S	L	YES	YES		
MINNESOTA	GRANITE	6,7,8,9,10	1.8	1995	P	G	BR	G	D	Rps 1a	R	-	-	YES	NO		
IOWA	ARCHER	6,10	1.9	1990	P	G	T	IB	D	Rps 1k,6	R	S	-	YES	NO		
IOWA	BSR 101	6,7,8,10,11,12	1.9	1985	P	G	T	IB	D	Rps 1a	R	S	L	NO	YES		
IOWA	HARDIN	6,7,8,10,11,12	1.9	1980	P	G	BR	Y	D	Rps 1a	S	S	M	YES	YES		
IOWA	HARDIN 91	6,12	1.9	1992	P	G	BR	Y	D	Rps 1k	-	-	-	YES	NO		
MINNESOTA	STURDY	6,7,10,11,12	2.1	1989	P	G	BR	IB	S	Rps 1a	S	S	L	YES	YES		
ILLINOIS	CORSOY	11	2.1	1967	P	G	BR	Y	D	None	S	S	-	NO	NO		
ILLINOIS	CORSOY 79	6,7,10,11,12	2.1	1979	P	G	BR	Y	D	Rps 1c	S	S	M	NO	NO		

1/ Maturity Group as provided by the Originator.

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

3/ D=Dull, M=Mixed, S=Shiny, I=Intermediate.

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

5/ BSR=Brown Stem Rot Resistance: R=Resistance, S=Susceptable.

6/ SCN=Soybean Cyst Nematode Resistance: R=Resistance, S=Susceptable.

7/ SCL=Sclerotinia (White Mold): Yield Performance under Sclerotinia Pressure in Wisconsin: H=Consistently High, M=Mixed or inconsistent, L= Consistently low, - =Not tested.

8/ PVP=Application for Plant Variety Protection has been made and/or received.

9/ " Wisconsin Certified" seed available for 1998.

TABLE 4. CHARACTERISTICS OF PRIVATE SOYBEAN VARIETIES

ORIGINATOR/BRAND	ENTRY	PERFORMANCE										SEED FOR	
		SHOWN IN	MATURITY	RE-	COLOR /2				SEED 3/	PRR	HERB. /5		PVP 6/
		TABLES	GROUP 1/	LEASED	FLOWER	HAIR	POD	HILUM	LUSTER	GENES 4/	TOLER.		
AGRIPRO	AP 1702RR	13	1.7	1997	P	G	T	BF	D	Rps 1c	RR	NO	YES
	AP 2002RR	13	2.0	1997	P	G	T	BF	D	Rps 1c	RR	NO	YES
ASGROW SEED COMPANY	A 1553	7,8	1.5	1997	P	TW	BR	B	D	Rps 1k	--	YES	YES
	A 1900	6,7,11	1.9	1993	P	TW	BR	B	D	Rps 1k	--	YES	YES
	AG 1901	13	1.9	1997	P	TW	BR	B	D	Rps 1k	RR	YES	YES
	AG 2101	13	2.1	1997	P	TW	T	B	D	Rps 1k	RR	YES	YES
	A 2247	6,11	2.2	1996	P	G	B	Y		Rps 1k	--	YES	YES
	AG 2301	13	2.3		P	TW	T	B	D	Rps 1k	RR	YES	
	AG 2401	13	2.4		P	G	BR	BF	D	Rps 1k	RR	YES	YES
	AG 2501	11,13	2.5		P	G	BR	IP	D	Rps 1k	RR	YES	YES
CENEXLAND O LAKES	L 1083	8	1.0	1996	P	TW	BR	B		Rps 1c	--	NO	YES
	L 1087	8	1.1	1997	W	G	BR	B	D	Rps 1k	--		
	L 1475	7	1.4	1997	P	TW	BR	BR	M	Rps 1a	--	NO	YES
	L 1984	6,11	1.9	1996							--	NO	YES
	L 2126	6	2.1	1996	W	TW	T	BR		None	--	NO	YES
CROW'S HYBRID CORN CO.	19001	7	1.9	1996	P	G	T	B	D	Rps 1c	--	NO	YES
	25006	6	2.5		W	TW	T	BR		None	--	NO	YES
DAHLCO SEEDS INC.	DS 9040	8	0.4	1994	P	M	BR	BR	S	Rps 1a	--	NO	YES
	DS 9120	8	1.2	1994	W	G	BR	Y	S	Rps 1k	--	YES	YES
	DS 9140	7,8	1.4	1994	P	TW	BR	B	S	Rps 1k	--	NO	YES
	DS 9141	7,8	1.4	1996	P	TW	BR	B	M	Rps 1a	--	NO	YES
	DS 9150	7,8	1.5	1997							--	YES	YES
	DS 9190	7	1.9	1996	P	TW	T	B	S	None	--	NO	YES
DAIRYLAND SEED CO., INC.	DSR-065	8,9	0.6	1997	P	G	BR	Y		Rps 1c	--	YES	YES
	DST-0907	8,9	0.7		P	G	BR	G			--	YES	NO
	DSR-133	8	1.3	1993	P	TW	T	B		Rps 1a	--	YES	YES
	DSR-158	7,8	1.5	1997	P	G	BR	IB			--	YES	YES
	DSR-173	11	1.6	1991	P	G	BR	IB		Rps 1a	--	YES	YES
	DSR-180/STS	7	1.7	1997	W	LTW	BR	B		Rps 1c	STS	YES	YES
	DSR-195	7,11	1.9	1996	P	TW	BR	B		None	--	YES	YES
	DSR-215/RR	13	2.1	1997	P	TW	T	B		None	RR	YES	YES
	DSR-220/STS	6,11,12	2.2	1995	P	TW	T	B		None	STS	YES	YES
	DSR-241/RR	13	2.4	1997	P	TW	T	B			RR	YES	YES
	DSR-246/STS	6,12	2.4	1996	P	TW	T	B		None	STS	YES	YES
	DSR-250/STS	10	2.5		W	TW	T	B			STS	YES	YES
	DSR-271/RR	6,12,13	2.7	1997	P	TW	T	B			RR	YES	YES
	DSR-277	6,10,11,12	2.7	1995	P	TW	BR	B		None	--	YES	YES
	DSR-293/RR	6,12,13	2.9	1997	P	TW	T	B			RR	YES	YES
DEKALB GENETICS CORP.	CX 121	7	1.2	1992	P	G	BR	M	D	Rps 1a	--		YES
	CX 132	7,8	1.3	1997	P	G	T	IB	M	Rps 1a	--		YES
	CX 145	7,8,10	1.4	1995	P	TW	BR	B	S	None	--		YES
	CX 173	7,8	1.7	1995	P	TW	BR	B	D	Rps 1c	--		YES
	CX 197	10,11	1.9	1996	P	TW	T	B	D	Rps 1k	--	YES	YES
	CX 205	7,11	2.0	1997	P	G	T	M	D	Rps 1c	--		YES
	CX 212	6	2.1	1997	W	TW	T	BR	D	None	--		YES
	CX 228	11	2.2	1995	P	G	BR	D	D	Rps 1c	--	YES	YES
	CX 229	6,12	2.2	1996	P	G	T	M	D	Rps 1c	--		YES
	CX 232	6	2.3	1993	P	TW	BR	BR	D	None	--		YES
	CX 289	6	2.8	1995	P	G	BR	M	D	Rps 1c	--		YES

CONTINUED

TABLE 4. CHARACTERISTICS OF PRIVATE SOYBEAN VARIETIES

ORIGINATOR/BRAND	ENTRY	PERFORMANCE			COLOR /2				SEED 3/	PRR	HERB. /5	SEED	
		SHOWN IN	MATURITY	RE-LEASED	FLOWER	HAIR	POD	HILUM	LUSTER	GENES 4/	TOLER. PVP 6/	FOR	
GARST SEED CO.	D 061	8,9	0.6	1997	P	TW		BR		None	--	YES	YES
	EX 7173	8	1.4							None	--	YES	NO
	D 174	7	1.7	1997	P	TW		B		Rps 1a	--	YES	YES
	D 180	7	1.8	1996	P	TW	BR	B	S	None	--	YES	YES
	D 205	7	2.0	1997	P	TW		B		None	--	YES	YES
	D 236	6	2.3	1995	W	TW	T	B	D	None	--	YES	YES
	D 260	6	2.6	1991	W	TW	T	BR	D	None	--	YES	YES
	EX 7265	6	2.6		P	TW		BR		None	--	YES	NO
	GOLDEN HARVEST	H 1082	8,9	0.8	1995	P	G	BR	Y	D	Rps 1c	--	NO
H 1162		8,11	1.6	1997	M	TW	T	M	S		--	NO	YES
H 1184		6,7,8,11	1.8	1995	P	TW	BR	Y	D		--	NO	YES
X 176 RR		13	1.9	1996	P	G	BR	B	D		RR	NO	YES
H 1190		6,7,8,11,12	1.9	1994	P	TW	T	B	S		--	NO	YES
H 1211		6,7	2.0	1994	W	TW	T	BR	S	Rps 1k	--	NO	YES
X 258 RR		13	2.5	1996	P	TW	T	B	S		RR	NO	YES
H 1263		6,12	2.6	1992	P	TW	T	B	S		--	NO	YES
GREAT LAKES HYBRIDS		GL 1872	6	1.8	1996	P	TW	BR	T	D	None	--	YES
	GL 2334	6	2.3	1998	W	TW	T	BR	D	None	--	YES	YES
	GL 2415	6	2.4	1992	P	TW	T	B	S	None	--	YES	YES
	GL 2656	6	2.6	1995	P	TW	T	BR	S	None	--	YES	YES
GROWMARK, INC	FS 1071	8	1.0	1998	P	LTW	T	B		Rps 1c	--	YES	YES
	FS 1331	8	1.3	1995	P	G	BR	BR		None	--	YES	YES
	FS 1452	7,8	1.4	1997	P	G	BR	G	D	Rps 1c	--	YES	YES
	FS HS 1771	7,8	1.7	1998	P	TW	BR	B	D	Rps 1k	--	YES	YES
	FS 215	11	2.1	1997	P	G	BR	G		None	--	YES	YES
	FS HS 2171	6,7	2.1	1998	P	TW	T	B	D	Rps 1k	--	YES	YES
	FS HT 221	6,11	2.2	1997	P	TW	BR	B	D	None	--	YES	YES
	FS HS 2361	6	2.3	1997	P	TW	T	B	D	Rps 1k	--	YES	YES
	FS HS 2561	6	2.5	1997	P	TW	T	B	D	Rps 1k	--	YES	YES
GUTWEIN SEEDS	7200	7,10,11	2.0	1993	P	G	BR	M	IB	Rps 1k	--	YES	YES
	7242	6,7,12	2.4	1994	P	TW	T	BR	M	None	--	YES	YES
	7266	6,10,12	2.6	1997	P	TW	BR	B	M	None	--	YES	YES
	7277	6,10,11,12	2.7	1995	P	TW	BR	B	M	None	--	YES	YES
HUGHES SEED FARM	H 198	6	1.9		P	TW	BR	B	S	None	--	NO	YES
	H 213	6	2.0		W	TW	T	B	S	Rps 1k	--	NO	YES
	H 228	6	2.2		P	TW	T	B	S	None	--	NO	YES
	H 252	6	2.5		P	TW	BR	B	S	None	--	NO	YES
JUNG SEED GENETICS	1086	8,9	0.9	1995	P	TW	BR	M	D	None	--	YES	YES
	1126	8	1.2	1997	P	TW	T	B	M	Rps 1a	--	YES	YES
	1138	8	1.4	1996	P	G	BR	M	M	None	--	YES	YES
	TNT 144	7,8,11	1.5	1994	P	TW	BR	B	M	Rps 1a	--	YES	YES
	1170	7	1.7	1995	P	TW	T	Y		None	--	YES	YES
	1194	6	1.9	1996	P	G	T	M		Rps 1a	--	YES	YES
	1214	6	2.1	1996	P	G	BR	BF		Rps 1a	--	YES	YES
	1238	6	2.4	1996	W	TW	T	B		None	--	YES	YES

CONTINUED

TABLE 4. CHARACTERISTICS OF PRIVATE SOYBEAN VARIETIES

ORIGINATOR/BRAND	ENTRY	PERFORMANCE			COLOR /2				SEED 3/	PRR	HERB. /5	SEED	
		SHOWN IN TABLES	MATURITY GROUP 1/	RE-LEASED	FLOWER	HAIR	POD	HILUM	LUSTER	GENES 4/	TOLER. PVP 6/	FOR	
KALTENBERG SEED FARMS	KB 076	8,9	0.7	1996	P	G	BR	M		Rps 1a	--	YES	YES
	KB 095	7,8,9	0.9	1995	P	G	BR	Y		Rps 1c	--	YES	YES
	KB 106	7,8	1.0	1995	P	TW	BR	BR		None	--	YES	YES
	KB 128	7,8	1.2	1997	P	TW	T	B		Rps 1c	--	YES	YES
	KB 145	7,11	1.4	1995	P	TW	BR	B		None	--	YES	YES
	KB 168	6,7,11	1.6	1997	P	G	T	Y		Rps 1a	--	YES	YES
	KB 184	6,7,11	1.8	1994	P	TW	BR	BR		None	--	YES	YES
	KB 186	6,7,11	1.8	1996	P	TW	T	B		None	--	YES	YES
	KB 195	6,7,12	1.9	1995	P	G	BR	BF		Rps 1a	--	YES	YES
	KB 208	6,7,10	2.0	1997	P	TW	T	BR		None	--	YES	YES
	KB 214	6,10,12	2.1	1994	P	TW	T	B		None	--	YES	YES
	KB 216	7	2.1	1996	P	G	BR	B		Rps 1a	--	YES	YES
	KB 241	6,10,12	2.4	1992	P	TW	T	BR		None	--	YES	YES
	KB 245	6,10	2.4	1995	W	TW	BR	BR		None	--	YES	YES
	KB 259	6,10,12	2.5	1997	P	TW	BR	BR		None	--	YES	YES
	KB 274	6,10,12	2.7	1994	P	TW	T	BR		None	--	YES	YES
	KB 298	6,10,12	2.9	1997	P	TW	BR	B		None	--	YES	YES
LATHAM SEED COMPANY	EX 150	7	1.2	1997	W	G	BR	Y	D	None	--	NO	YES
	EX 160	7	1.4		P	TW	BR	B	D	None	--	NO	YES
	250 BRAND	6,7	1.8	1996	P	TW	BR	Y	S	None	--	NO	YES
	EX 324 STS	6	1.9		W	TW	T	BR	D	None	--	NO	YES
	EX 330	6	1.9		P	G	T	BR	D	Rps 1c	--	NO	YES
	392 BRAND	6	1.9	1997	W	TW	T	BR	D	None	--	NO	YES
	410 BRAND	6	1.9	1995	P	TW	T	B	D	None	--	NO	YES
	590 BRAND	6	2.2	1995	W	TW	T	BR	D	None	--	NO	YES
	621 BRAND	6	2.3	1997	M	TW	T	BR	D	None	--	NO	YES
	660 BRAND	6	2.3	1992	P	TW	T	BR	D	None	--	NO	YES
	662 BRAND	6	2.3	1997	M	TW	T	BR	D	None	--	NO	YES
	EX 640	6	2.4		W	TW	T	BR	D	None	--	NO	YES
LG SEED	LG6091	8,9	0.9	1995	P	TW	BR	BR	S	None	--	NO	YES
	LG6145	8	1.4	1996	P	TW	BR	B	S	Rps 1a	--	NO	YES
	LG6192	7	1.9	1997	P	G	T	BF	D	Rps 1c	--	NO	YES
	LG6212	6	2.1	1995	W	TW	T	BR	D	None	--	NO	YES
	LG6245	6	2.4	1997	P	TW	T	BR	D	None	--	NO	YES
MARK SEED COMPANY	MRK 9519	11	1.9	1995	P	TW	T	Y	D		--	YES	YES
	MRK 9721	11	2.1	1997	W	TW	T	BR	S		--	YES	YES
	MRK EX 921	11	2.1	1998	P	TW	T	BR	D		--	YES	YES
	MRK 9825	6,10,12	2.4	1998	P	TW	T	BR	D	None	--	YES	YES
	MRK 9225	10	2.5	1992	M	TW	T	M	S		--	YES	YES
	MRK 9727-5	6	2.6	1997	M	TW	M	M	M	Rps 1a,Rps 1k	--	YES	YES
	MRK 9826	6,12	2.6	1998	M	TW	T	BR	D	None	--	YES	YES
	MRK 9827	6,10,12	2.7	1998	P	TW	T	BR	D		--	YES	YES
MIDWEST SEED GENETICS	G 1400	8	1.4	1994	P	G	BR	B	D		--	YES	YES
	G 1502	8	1.5	1997	P	G	BR	Y	D	Rps 1a	--	YES	YES
	G 1885	7,11	1.8	1995	P	TW	BR	BR	D		--	YES	YES
	G 2112	6	2.1	1997	W	TW	T	BR	D		--	YES	YES
	G 2440	6	2.4	1992	P	TW	T	BR	D		--	YES	YES
MYCOGEN PLANT SCIENCES	200	7	2.0	1994	P	TW	T	B	D		--	YES	YES
	251	6	2.4	1992	P	TW	T	BR	D		--	YES	YES
	5205	7	2.0	1995	W	TW	T	BR	D		--	YES	YES

CONTINUED

TABLE 4. CHARACTERISTICS OF PRIVATE SOYBEAN VARIETIES

ORIGINATOR/BRAND	ENTRY	PERFORMANCE			RE-LEASED	COLOR /2				SEED 3/	PRR	GENES 4/	HERB. /5	TOLER. PVP 6/	SEED FOR 1998
		SHOWN IN TABLES	MATURITY GROUP 1/	FLOWER		HAIR	POD	HILUM	LUSTER						
NOVARTIS SEEDS, INC. (NORTHROP-KING BRAND)	S08-80	8,9	0.8	1996	P	TW	T	Y	D	Rps 1c	--	YES	YES		
	S12-49	7,8	1.2	1995	P	TW	T	G	D	Rps 1c	--	YES	YES		
	S13-J6	7,8	1.3	1998	P	TW	BR	B		Rps 1k	--	YES	YES		
	S14-M7	7,13	1.4	1998	P	TW	T	G		Rps 1c	RR	YES	YES		
	S19-90	6,7,11	1.9	1987	P	TW	T	G	D	Rps 1c	--	YES	YES		
	S20-91	6	2.0	1995	P	TW	T	G	D	Rps 1c	--	YES	YES		
	S20-B9	7,11,13	2.0	1998	P	TW	T	G		Rps 1c	RR	YES	YES		
	S21-A1	6	2.1	1998	P	G	T	B		Rps 1k	--	YES	YES		
	S22-N2	7,11,13	2.2	1998	P	G	G	B		None	RR	YES	YES		
	S24-12	6	2.4	1998	P	G	BR	Y		Rps 1c	--	YES	YES		
	S24-92	6	2.4	1992	P	TW	BR	B	D	None	--	YES	YES		
PATRIOT SEED CO.	148	8	1.4	1997	P	TW	BR	BR	S	Rps 1a	--	NO	YES		
	188	7	1.8	1997	P	G	BR	B	S	None	--	NO	YES		
	192	7	1.9	1996	P	G	T	BF	S	Rps1c	--	NO	YES		
	196	7	1.9	1995	P	TW	BR	B	S	None	--	NO	YES		
PIONEER HI-BRED INT'L, INC.	9071	8,9	0.7	1992	P	G	BR	Y	D	Rps 1c	--	YES	YES		
	9132	8	1.3	1995	P	TW	BR	BR	D	Rps 1c	--	YES	YES		
	9163	11	1.6	1995	P	G	BR	Y	D	Rps 1c	--	YES	YES		
	9172	7	1.7	1995	P	TW	T	B	D	None	--	YES	YES		
	92B21	13	2.2	1997	W	TW	T	BR	S	None	RR	YES	YES		
	9233	6	2.3	1996	W	TW	T	BR	D	None	--	YES	YES		
	92B52	6	2.5	1997	P	TW	BR	BR	D	None	--	YES	YES		
PROFISEED, INC.	PS 2055	6	1.9	1994	P	TW	T	B	S	None	--	NO	YES		
RAMY INTERNATIONAL, LTD/ LA CROSSE SEED COMPANY	990	8	0.9	1996	P	TW	BR	IB	M	None	--	YES	YES		
	1525	7,8	1.5	1991	P	G	BR	Y	D	Rps 1a	--	YES	YES		
	1800	7	1.8	1996	P	TW	BR	B	D	None	--	YES	YES		
	1993	6,11	1.9	1993	P	G	BR	B	M	Rps 1k	--	YES	YES		
	1995	6,7	1.9	1993	P	TW	BR	B	D	None	--	YES	YES		
	2097	11	2.0	1996	P	TW	BR	BR	D	None	--	YES	YES		
	2195	6,7	2.0	1996	W	TW	T	BR	D	None	--	YES	YES		
	2220	6	2.4	1993	P	TW	BR	B	D	None	--	YES	YES		
	2500	6	2.5	1991	P	G	T	B	D	None	--	YES	YES		
	2650	6	2.6	1996	P	TW	BR	BR	D	None	--	YES	YES		
RENK SEED COMPANY	RS 0995	7,8,9	0.9	1995	P	TW	BR	BR		None	--	NO	YES		
	RS 1493	7	1.4	1993	P	TW	BR	B		Rps 1k	--	NO	YES		
	RS 1896	6,7	1.8	1996	P	TW	T	B		None	--	NO	YES		
	RS 1994	7	1.9	1994	W	M	BR	B		Rps 1a	--	YES	YES		
	RS 2394	6	2.3	1994	P	G	BR	Y		Rps 1a	--	NO	YES		
	RS 2797	6	2.7	1997	P	TW	BR	B		None	--	YES	YES		
SPANGLER SEEDTECH, INC.	SPANSOY 077	8,9	0.7	1997	P	G	T	B		Rps 1k	--	NO	YES		
	SPANSOY 088	8,9	0.8	1995	P	TW	BR	BR	D	None	--	NO	YES		
	SPANSOY 133	7,8	1.3	1997	P	TW	T	B		Rps 1a	--	NO	YES		
	SPANSOY 176	7	1.7	1996	P	TW	T	BR			--	NO	YES		
	SPANSOY 201	6,7	2.0	1996	P	G	BR	B		Rps 1a	--	NO	YES		
	SPANSOY 207	6	2.0	1997	P	TW	T	B		Rps 1a	--	NO	YES		
	SPANSOY 240	6	2.4	1995	W	TW	T	B		None	--	NO	YES		
	SPANSOY 250	6	2.5	1995	P	TW	BR	B	D	None	--	NO	YES		

CONTINUED

TABLE 4. CHARACTERISTICS OF PRIVATE SOYBEAN VARIETIES

ORIGINATOR/BRAND	ENTRY	PERFORMANCE			COLOR /2				SEED 3/	PRR	HERB. /5	PVP 6/	SEED FOR 1998
		SHOWN IN TABLES	MATURITY GROUP 1/	RE-LEASED	FLOWER	HAIR	POD	HILUM					
STINE SEED COMPANY	1073	8	1.0	1996	P	TW	T	Y	D	Rps 1c	--	YES	YES
	1386	7,8	1.2		P	TW	M	BR	D	None	--	YES	YES
	1680	8	1.5	1997	P	TW	BR	BR	S	None	--	YES	YES
	1980	7	1.9	1996	P	TW	T	BR	D	None	--	YES	YES
	2500	6,7	2.0	1997	P	TW	BR	Y	D	None	--	YES	YES
	2488	6,10,12	2.4	1997	W	TW	T	BR	D	None	--	YES	YES
	EX 21 RRtm	13	2.4		P	TW	T	B	D	None	RR	YES	NO
	EX 26 RRtm	13	2.5		P	TW	T	B	D	None	RR	YES	NO
	2686	6,12	2.6	1996	P	G	BR	Y	D	None	--	YES	YES
	2788	6	2.7	1997	P	TW	BR	B	D	None	--	YES	YES
TERRA INTERNATIONAL, INC.	TS084	7,8,11	0.8	1996	P	G	BR	B		Rps 1c	--	YES	YES
	E147	7,8,10,11	1.4		P	G	BR	IP		None	--	YES	YES
	TS174	6,7,8,10,12	1.7	1996	P	TW	T	B		None	--	YES	YES
	TS194	6,7,8,11	1.9	1995	P	TW	BR	BR		None	--	YES	YES
	TS200	6,7,10	2.0	1995	P	TW	T	B		None	--	YES	YES
	TS253	6	2.5	1993	P	TW	T	BR		None	--	YES	YES
	E267	6,10,11,12	2.6		P	TW	BR	BR		None	--	YES	YES
THOMPSON SEEDS, INC.	T3233RR	13	2.3		P	TW	T	B		Rps 1k	RR		YES
TOP FARM HYBRIDS	TF 6056	8	0.5	1996	P	G	T	B	D	None	--	NO	YES
	TF 6096	8	0.9	1996	P	G	T	B	D	None	--	NO	YES
	TF 6147	7	1.4	1997	P	G	BR	Y	D	None	--	NO	
	TF 6175	7	1.7	1996	P	TW	T	Y	D	None	--	NO	YES
	TF E188	7	1.8	1998	P	G	T	Y	D	Rps 1c	--	NO	YES
	TF 6227	6	2.2	1997	P	TW	T	BR	D	None	--	NO	YES
TRELAY SEED COMPANY	95	8,9	0.9	1995	P	TW	BR	BR		None	--	YES	YES
	156	7	1.5	1996	P	G	BR	M		None	--		YES
	196	7	1.9	1996	P	G	BR	M		Rps 1a	--		YES
	207	6	2.0	1997	P	M	BR	Y		None	--		YES
	226	6	2.2	1996	P	TW	T	B		None	--	YES	YES
	246	6	2.4	1996	W	M	T	B		None	--	YES	YES
UAP COLE GROWER SERVICE	DYNA-GRO 3075	8,9	0.7	1996	P	G	BR	Y	M	Rps 1c	--	NO	YES
	DYNA-GRO 3094	8	0.9		P	TW	T	M	D	Rps 1k	--	NO	YES
	DYNA-GRO 3122	8	1.2		W	G	BR	BR	M		--	NO	YES
	DYNA-GRO 3188	7,8,11	1.8		P	TW	BR	M	M		--	NO	YES
	DYNA-GRO 3195	6,7,8	1.9	1995	W	TW	T	BR	M		--	NO	YES
	DYNA-GRO 3196	6,7,8	1.9	1996	P	TW	T	B	M		--	NO	YES
	DYNA-GRO 3210	7	2.1	1995	W	TW	T	BR	M		--	NO	YES
	DYNA-GRO 3256	6	2.5	1995	P	TW	T	BR	M		--	NO	YES
	DYNA-GRO 3258	6	2.5	1996	M	TW	T	BR	M		--	NO	YES

1/ Maturity Group as provided by the Originator.

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

3/ D=Dull, M=Mixed, S=Shiny, I=Intermediate.

4/ PRR=Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races listed in Introduction. Information is provided by the entering Company.

5/ Herb. Toler.= Herbicide Tolerance: RR=Resistance to "Roundup", STS=Resistance to Sulfinal Urea herbicides.

6/ PVP=Application for Plant Variety Protection has been made and/or received.

TABLE 5. SEED SOURCES FOR PRIVATE SOYBEAN ENTRIES IN 1997

Brand	Company Name	Address	Phone
AGRIPRO	AGRIPRO SEEDS, INC.	824 2 nd Street South, Brookings, SD 57006	605-692-6258
ASGROW	ASGROW SEED CO.	P.O. Box 7570, Des Moines, IA 50322	800-828-9283
CENEX/L'O'L	CENEX/LAND O'LAKES	2827 8th Avenue South, Fort Dodge, IA 50501	515-576-7311
CROW	CROW'S HYBRID	P.O. Box 306, Milford, IL, 60953	815-889-4151
DAHLCO	DAHLCO/GOLD COUNTRY	14730 15 th Street SW, Cokato, MN 55321	320-286-5982
DAIRYLAND	DAIRYLAND SEED CO., INC.	P.O. BOX 958, 3570 Hwy H, West Bend, WI 53095	800-236-0163
DEKALB	DEKALB GENETICS CORP.	3100 Sycamore Rd., Dekalb, IL 60115	815-758-9323
GARST	GARST SEED CO.	2369 330 th Street, Slater, IA 50244	515-685-3574
GOLDEN	GOLDEN HARVEST	27420 137 th Avenue N, Cordova, IL 61242	309-654-2234
GREAT LAKES	GREAT LAKES HYBRIDS	9915 W. M-21, Ovid, MI 48866	517-834-2251
GROWMARK	GROWMARK, INC.	1701 Towanda Ave., Bloomington, IL 61701	309-557-6399
GUTWEIN	GUTWEIN SEEDS	Route 1 Box 40, Francesville, IN 47946	219-567-9141
HUGHES	HUGHES SEED FARMS, INC.	206 N. Hughes Road, Woodstock, IL 60098	815-338-4046
JUNG	JUNG SEED GENETICS, INC.	335 S. High St., Randolph, WI 53957	414-326-5891
KALTENBERG	KALTENBERG SEED FARMS, INC.	P.O. Box 278, 5506 Hwy 19, Waunakee, WI 53597	800-383-3276
LATHAM	LATHAM SEED CO.	131 180th St., Alexander, IA 50420	515-692-3258
LG SEED	LG SEED CO.	905 Dexter St., Prescott, WI 54021	800-397-5010
MARK	MARK SEED CO.	823 W 2nd Box 67, Perry, IA 50220	800-383-6275
MIDWEST	MIDWEST SEED GENETICS	P.O. Box 518, Carroll, IA 51401	712-792-6691
MYCOGEN	MYCOGEN SEEDS	P.O. Box 209, Olivia, MN 56277	320-523-1331
NORTHRUP-KING	NOVARTIS SEEDS, INC.	2622 Blaney Road, Madison, WI 53711	608-271-4644
PATRIOT	PATRIOT SEED CO.	208 S. Worrell, Bowen, IL 62316	217-842-5612
PIONEER	PIONEER HI-BRED INTL, INC.	414 D'Onofrio Dr, Suite 200, Madison, WI 53719	608-833-3737
PROFISEED	PROFISEED, INC.	1691 Highway 65, Hampton, IA 50441	515-456-4751
RAMY/LA CROSSE	RAMY INTERNATIONAL, LTD.	1329 N. Riverfront Dr., Mankato, MN 56001	800-658-7269
RENK	RENK SEED CO.	6800 Wilburn Road, Sun Prairie, WI 53590	608-837-7351
SPANGLER	SPANGLER SEEDTECH, INC.	803 W. Racine St., Jefferson, WI 53549	414-674-4606
STINE	STINE SEED CO.	2225 Laredo Trail, Adel, IA 50003	515-677-2605
TERRA	TERRA INTERNATIONAL, INC.	P.O. Box 6000, Sioux City, IA 51102	712-233-3609
THOMPSON	THOMPSON SEEDS, INC.	40321 130 th Avenue, Leland, IA 50453	515-567-3350
TOP FARM	TOP FARM HYBRIDS	17177 60 th St. S.W. Cokato, MN 55321	320-286-5516
TRELAY	TRELAY SEED CO.	11623 Hwy 80, Livingston, WI 53554	608-943-6363
UAP	UAP-COLE GROWER SERVICE	537 Atlas Ave., Madison, WI 53714	608-221-6211

TABLE 6. SOUTHERN REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Southern Wisconsin Locations.
 ARL=ARLINGTON, JAN=JANESVILLE, RAC=RACINE

Originator/Brand	Entry	Maturity ** Group	1997 Yields			1997 3-Test Average			1996-97 6-Test Average							
			ARL	JAN	RAC	Yield	Lod. **	Height	Maturity	ARL	JAN	RAC	Yield	Lod. **	Height	Maturity
			----- Bu/A -----						----- Bu/A -----							
						1-5	In	Date								
PUBLIC	LAMBERT	0.8	41	49	38	43	2.9	29	10-Sep							
PUBLIC	DASSEL	0.9	39	46	47	44	2.3	26	10-Sep	38	48	39	42	1.7	24	09-Sep
PUBLIC	MN 1301	1.3	44	51	53	49	2.3	32	14-Sep							
PUBLIC	HODGSON 78	1.4	35	51	49	45	3.3	34	12-Sep							
PUBLIC	MN 1401	1.4	47	59	48	51	1.8	33	17-Sep							
PUBLIC	PARKER	1.5	49	58	53	53	3.1	35	14-Sep	50	57	46	51	2.7	33	15-Sep
PUBLIC	GRANITE	1.8	* 57	66	54	59	2.2	34	21-Sep	57	62	42	54	2.0	33	23-Sep
PUBLIC	ARCHER	1.9	52	61	55	56	2.2	34	22-Sep							
PUBLIC	HARDIN	1.9	44	61	50	52	2.9	33	14-Sep	50	59	43	51	2.5	33	14-Sep
PUBLIC	HARDIN 91	1.9	47	63	49	53	3.2	33	18-Sep	51	60	42	51	2.6	32	19-Sep
PUBLIC	BSR 101	1.9	52	60	51	54	2.0	32	21-Sep	55	59	42	52	1.9	32	20-Sep
PUBLIC	STURDY	2	44	57	55	52	3.0	34	18-Sep	51	61	43	52	2.5	33	21-Sep
PUBLIC	CORSOY 79	2.1	45	57	51	51	2.9	35	18-Sep	51	56	44	50	2.6	34	20-Sep
PUBLIC	DAWSON	2.2	42	49	42	44	2.8	31	11-Sep							
ASGROW	A 1900	1.9	52	66	59	59	2.1	30	16-Sep	56	63	47	55	1.9	29	19-Sep
ASGROW	A 2247	2.2	54	* 72	57	61	1.9	34	25-Sep							
CENEXL'O'L	L1984	1.9	51	62	63	59	2.2	31	20-Sep							
CENEXL'O'L	L2126	2.1	49	65	* 65	60	2.7	32	24-Sep							
CROW	25006	2.5	52	64	63	60	2.3	31	27-Sep							
DAIRYLAND	DSR-215/RR	2.1	* 57	66	57	60	1.7	34	26-Sep							
DAIRYLAND	DSR-220/STS	2.2	* 56	63	58	59	2.7	34	26-Sep	58	61	47	55	2.4	33	27-Sep
DAIRYLAND	DSR-241/RR	2.4	52	65	59	59	1.3	30	26-Sep							
DAIRYLAND	DSR-246/STS	2.4	47	62	54	54	2.1	30	28-Sep	52	60	45	52	1.8	29	28-Sep
DAIRYLAND	DSR-271/RR	2.7	51	63	56	57	1.8	34	30-Sep							
DAIRYLAND	DSR-277	2.7	* 61	* 73	64	* 66	1.8	35	02-Oct	* 61	* 70	* 50	* 60	1.5	33	01-Oct
DAIRYLAND	DSR-293/RR	2.9	53	69	59	60	1.9	34	01-Oct							
DEKALB	CX 212	2.1	53	68	60	60	1.7	32	26-Sep							
DEKALB	CX 229	2.2	47	66	57	57	2.6	31	24-Sep	54	65	46	55	2.2	29	25-Sep
DEKALB	CX 232	2.3	* 58	68	59	62	1.9	32	22-Sep	58	* 67	* 51	* 59	1.6	30	23-Sep
DEKALB	CX 289	2.8	* 58	* 72	62	* 64	2.3	38	01-Oct							
GARST	D236	2.3	55	69	57	60	1.9	32	27-Sep	58	65	46	56	1.7	31	26-Sep
GARST	D260	2.6	* 57	69	60	62	1.8	31	25-Sep	* 60	66	48	58	1.5	29	27-Sep
GARST	EX 7265	2.6	55	68	62	62	2.2	30	28-Sep							

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TABLE 6. SOUTHERN REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Southern Wisconsin Locations.
 ARL=ARLINGTON, JAN=JANESVILLE, RAC=RACINE

Originator/Brand	Entry	Maturity** Group	1997 Yields			1997 3-Test Average			1996-97 6-Test Average							
			ARL	JAN	RAC	Yield	Lod.**	Height	Maturity	ARL	JAN	RAC	Yield	Lod.**	Height	Maturity
			----- Bu/A -----			1-5	In	Date	----- Bu/A -----			1-5	In	Date		
GOLDEN HARVEST	H-1184	1.8	54	66	59	60	2.1	31	22-Sep	57	65	* 50	57	1.7	30	21-Sep
GOLDEN HARVEST	H-1190	1.9	51	64	57	57	1.5	31	23-Sep	56	63	48	56	1.3	30	23-Sep
GOLDEN HARVEST	H-1211	2	* 56	67	59	61	1.7	32	24-Sep	59	64	* 49	57	1.5	31	24-Sep
GOLDEN HARVEST	H-1263	2.6	54	67	59	60	1.6	30	28-Sep	56	65	* 51	57	1.5	30	29-Sep
GREAT LAKES	GL 1872	1.8	* 56	65	62	61	2.2	31	20-Sep	56	66	* 50	57	1.8	30	21-Sep
GREAT LAKES	GL 2334	2.3	54	68	62	61	2.1	31	25-Sep							
GREAT LAKES	GL 2415	2.4	* 57	* 71	58	62	1.8	31	26-Sep	* 61	* 68	* 49	* 59	1.5	31	27-Sep
GREAT LAKES	GL 2656	2.6	* 58	* 72	* 65	* 65	1.3	30	01-Oct	58	* 67	* 53	* 59	1.2	29	30-Sep
GROWMARK	FS HISOY HS 2171	2.1	54	* 71	61	62	2.0	30	18-Sep							
GROWMARK	FS HISOY HT 221	2.2	49	65	58	57	2.3	35	22-Sep							
GROWMARK	FS HISOY HS 2361	2.3	* 57	70	64	* 64	1.3	30	25-Sep	55	64	46	55	1.2	28	27-Sep
GROWMARK	FS HISOY HS 2561	2.5	* 59	* 73	62	* 65	1.8	35	27-Sep	* 61	* 69	* 50	* 60	1.6	33	27-Sep
GUTWEIN	7242	2.4	50	64	58	57	2.1	32	30-Sep	56	62	46	55	1.8	31	30-Sep
GUTWEIN	7266	2.6	* 56	* 72	* 68	* 65	1.8	32	28-Sep							
GUTWEIN	7277	2.7	* 58	* 71	* 65	* 65	2.2	36	02-Oct	* 60	* 69	* 50	* 60	1.7	33	01-Oct
HUGHES	198	1.9	* 57	64	59	60	2.2	34	24-Sep	59	60	46	55	2.1	33	24-Sep
HUGHES	213	2	54	63	59	59	2.1	32	22-Sep	56	63	48	56	1.9	31	23-Sep
HUGHES	228	2.2	55	65	61	60	2.2	35	25-Sep	58	62	* 49	56	2.0	33	25-Sep
HUGHES	252	2.5	* 58	70	60	* 63	1.8	39	02-Oct	* 60	* 69	45	58	1.7	38	02-Oct
JUNG	1194	1.9	53	68	60	60	2.5	31	20-Sep	56	64	48	56	2.0	30	21-Sep
JUNG	1214	2.1	45	66	58	56	2.2	31	20-Sep	52	62	46	53	1.8	29	19-Sep
JUNG	1238	2.4	46	59	* 68	58	2.5	30	23-Sep	52	57	* 51	53	2.1	30	25-Sep
KALTENBERG	KB 168	1.6	47	64	58	56	2.0	34	18-Sep							
KALTENBERG	KB 184	1.8	52	64	64	60	1.8	31	23-Sep	55	63	48	55	1.7	30	24-Sep
KALTENBERG	KB 186	1.8	53	61	60	58	1.3	30	22-Sep	55	62	47	55	1.3	29	22-Sep
KALTENBERG	KB 195	1.9	52	61	52	55	2.5	29	26-Sep	55	61	42	53	2.0	29	25-Sep
KALTENBERG	KB 208	2	51	65	61	59	2.8	33	24-Sep							
KALTENBERG	KB 214	2.1	51	66	56	58	1.4	30	18-Sep	55	66	48	56	1.4	30	20-Sep
KALTENBERG	KB 241	2.4	55	70	63	* 63	1.6	32	25-Sep	57	66	48	57	1.4	30	25-Sep
KALTENBERG	KB 245	2.4	53	68	59	60	1.8	30	26-Sep	56	64	* 51	57	1.8	29	26-Sep
KALTENBERG	KB 259	2.5	54	69	63	62	2.2	30	27-Sep							
KALTENBERG	KB 274	2.7	* 57	70	* 65	* 64	1.4	30	30-Sep	59	65	* 49	58	1.3	29	30-Sep
KALTENBERG	KB 298	2.9	* 57	* 71	* 65	* 64	1.6	33	30-Sep							
LG SEED	LG 6212	2.1	55	70	57	61	1.8	31	26-Sep	59	64	48	57	1.7	31	25-Sep
LG SEED	LG 6245	2.4	49	68	61	59	2.2	31	26-Sep							

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TABLE 6. SOUTHERN REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Southern Wisconsin Locations.
 ARL=ARLINGTON, JAN=JANESVILLE, RAC=RACINE

Originator/Brand	Entry	Maturity ** Group	1997 Yields			1997 3-Test Average			1996-97 6-Test Average							
			ARL	JAN	RAC	Yield	Lod. **	Height	Maturity	ARL	JAN	RAC	Yield	Lod. **	Height	Maturity
			----- Bu/A -----						----- Bu/A -----							
						1-5	In	Date				1-5	In	Date		
LATHAM	250 BRAND	1.8	49	64	62	58	2.3	30	18-Sep	55	64	* 49	56	1.8	30	20-Sep
LATHAM	392 BRAND	1.9	46	62	63	57	2.8	31	23-Sep	54	63	* 50	56	2.4	31	23-Sep
LATHAM	410 BRAND	1.9	53	68	61	61	1.6	30	20-Sep	55	66	45	55	1.3	29	22-Sep
LATHAM	EX-324STS	1.9	47	62	58	56	3.1	31	25-Sep							
LATHAM	EX-330	1.9	52	69	53	58	2.8	31	20-Sep							
LATHAM	660 BRAND	2.3	54	66	61	60	1.8	31	24-Sep	55	64	48	56	1.5	30	25-Sep
LATHAM	662 BRAND	2.3	49	66	59	58	2.3	30	26-Sep							
LATHAM	590 BRAND	2.2	* 57	* 71	57	62	1.8	33	23-Sep	58	66	48	57	1.7	31	24-Sep
LATHAM	621 BRAND	2.3	55	69	64	* 63	1.7	32	27-Sep							
LATHAM	EX-640	2.4	* 59	70	58	62	1.9	32	29-Sep							
MARK	MRK 9825	2.4	* 61	70	* 66	* 66	1.9	33	29-Sep	* 64	* 68	* 51	* 61	1.7	30	29-Sep
MARK	MRK 9727-5	2.6	* 58	69	* 70	* 66	2.3	33	30-Sep	* 62	66	* 52	* 60	2.0	32	01-Oct
MARK	MRK 9826	2.6	* 56	66	62	61	2.1	31	28-Sep	* 61	63	* 49	58	1.9	30	27-Sep
MARK	MRK 9827	2.7	55	70	61	62	1.3	31	01-Oct							
MIDWEST	G 2112	2.1	49	62	61	57	2.8	34	23-Sep							
MIDWEST	G 2440	2.4	54	70	59	61	1.9	31	26-Sep	59	* 69	46	58	1.5	30	26-Sep
MYCOGEN	251	2.5	54	* 71	57	61	1.8	30	26-Sep	57	* 69	44	57	1.6	29	25-Sep
NORTHRUP-KING	S19-90	1.9	49	62	56	56	1.8	31	22-Sep	53	62	48	54	1.5	30	23-Sep
NORTHRUP-KING	S20-91	2	52	62	59	58	1.8	31	21-Sep	53	64	48	55	1.8	30	22-Sep
NORTHRUP-KING	S21-A1	2.1	52	64	61	59	2.3	30	19-Sep							
NORTHRUP-KING	S24-12	2.4	53	66	57	59	2.2	33	25-Sep							
NORTHRUP-KING	S24-92	2.4	52	64	* 65	60	2.0	32	24-Sep	55	66	* 50	57	1.8	31	24-Sep
PIONEER	9233	2.3	48	64	62	58	2.8	32	22-Sep							
PIONEER	92B52	2.5	46	68	63	59	2.3	32	24-Sep							
PROFISEED	PS 2055	1.9	48	60	58	55	1.3	30	25-Sep	53	61	47	54	1.2	29	23-Sep
RAMYLA CROSSE	1993	1.9	52	64	56	57	1.6	32	19-Sep							
RAMYLA CROSSE	1995	1.9	55	68	61	61	1.5	30	22-Sep							
RAMYLA CROSSE	2195	2	52	65	64	60	2.6	33	24-Sep	59	65	* 50	58	2.1	32	24-Sep
RAMYLA CROSSE	2220	2.4	53	66	61	60	1.8	30	25-Sep	57	64	46	56	1.5	29	26-Sep
RAMYLA CROSSE	2500	2.5	45	68	61	58	2.4	37	27-Sep	56	* 68	* 50	58	2.0	35	28-Sep
RAMYLA CROSSE	2650	2.6	54	65	54	58	1.9	30	29-Sep							

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TABLE 6. SOUTHERN REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Southern Wisconsin Locations.
 ARL=ARLINGTON, JAN=JANESVILLE, RAC=RACINE

Originator/Brand	Entry	Maturity ** Group	1997 Yields			1997 3-Test Average			1996-97 6-Test Average							
			ARL	JAN	RAC	Yield	Lod. **	Height	Maturity	ARL	JAN	RAC	Yield	Lod. **	Height	Maturity
			----- Bu/A-----						----- Bu/A-----							
			1-5	In	Date				1-5	In	Date					
RENK	RS 1896	1.8	51	65	57	58	1.6	29	18-Sep	57	63	47	56	1.3	29	21-Sep
RENK	RS 2394	2.3	50	64	58	57	2.3	33	22-Sep	56	63	47	55	2.0	31	23-Sep
RENK	RS 2797	2.7	* 56	70	* 69	* 65	2.1	31	29-Sep							
SPANGLER	SPANSOY 201	2	46	60	56	54	2.1	30	17-Sep	52	62	* 49	54	1.8	30	17-Sep
SPANGLER	SPANSOY 207	2	52	70	59	60	2.3	32	17-Sep							
SPANGLER	SPANSOY 240	2.4	43	61	* 66	57	2.8	30	27-Sep	53	62	* 50	55	2.5	29	27-Sep
SPANGLER	SPANSOY 250	2.5	* 57	* 73	* 66	* 65	2.0	40	02-Oct	* 62	* 70	46	* 59	1.8	38	01-Oct
STINE	2500	2	52	64	* 70	62	2.2	30	18-Sep							
STINE	2488	2.4	* 60	* 75	62	* 66	1.8	32	29-Sep							
STINE	2686	2.6	55	70	* 65	* 63	2.1	31	28-Sep	59	66	* 52	* 59	1.8	30	28-Sep
STINE	2788	2.7	54	* 71	64	* 63	1.8	32	30-Sep							
TERRA	TS 174	1.7	53	62	54	56	1.8	29	19-Sep							
TERRA	TS 194	1.9	50	68	63	60	2.0	31	21-Sep							
TERRA	TS 200	2	49	69	60	59	1.7	28	22-Sep	54	65	47	55	1.5	28	23-Sep
TERRA	TS 253	2.5	55	66	63	61	1.8	31	28-Sep	58	* 67	* 49	58	1.5	30	27-Sep
TERRA	E 267	2.6	* 58	68	59	62	2.1	31	28-Sep							
TOPFARM	TF 6227	2.2	55	66	60	60	1.9	31	23-Sep							
TRELAY	207	2	53	64	57	58	2.3	30	20-Sep							
TRELAY	226	2.2	53	64	61	59	2.1	34	25-Sep							
TRELAY	246	2.4	43	60	62	55	2.8	30	28-Sep							
UAP	DYNA-GRO 3195	1.9	52	62	* 65	60	2.6	33	23-Sep	55	61	* 50	55	2.4	32	23-Sep
UAP	DYNA-GRO 3196	1.9	* 56	66	61	61	1.6	30	21-Sep	56	64	47	56	1.3	29	22-Sep
UAP	DYNA-GRO 3256	2.5	53	68	60	60	1.8	31	28-Sep	58	* 67	* 50	58	1.6	31	27-Sep
UAP	DYNA-GRO 3258	2.5	48	62	64	58	2.3	30	28-Sep							
Mean			52	65	59	59	2.1	32	23-Sep	56	64	48	56	1.8	31	24-Sep
LSD(0.10)**			5	4	5	3				4	3	4	2			
LSD(0.30)**			3	2	3	2				2	2	2	1			

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

** See Text For Further Explanation.

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

TABLE 7. CENTRAL REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Group	1997 Yields			1997 2 and 3-Test Average ***				Matur-ity	1996-97 Yields ***			1996-97 4 and 6-Test Average ***					
			Matur-ity **	FON	GAL	HAN	Yield	White Mold	Lod. **		Height	FON	GAL	HAN	Yield	White Mold	Lod. **	Height	Matur-ity
			----- Bu/A -----			%			----- Bu/A -----			%							
PUBLIC	MN 0301		0.3	50	35	46	44	32	3.3	38	03-Sep								
PUBLIC	LAMBERT		0.8	37	43	50	43	16	3.0	36	06-Sep	34	46	56	45	9	2.4	32	08-Sep
PUBLIC	DASSEL		0.9	56	38	50	48	8	2.8	35	08-Sep	51	43	55	50	11	2.4	33	14-Sep
PUBLIC	MN 1301		1.3	59 *	44 *	57	* 53	8	2.7	42	09-Sep								
PUBLIC	HODGSON 78		1.4	54	31 *	56	47	18	3.3	42	10-Sep	50	39	* 63	51	17	3.5	39	17-Sep
PUBLIC	MN 1401		1.4	59	40 *	54	51	13	2.9	44	13-Sep								
PUBLIC	PARKER		1.5	56	40	51	49	31	3.9	43	11-Sep	54	46	58	53	35	3.9	41	19-Sep
PUBLIC	GRANITE		1.8	59	40 *	56	52	10	3.7	41	16-Sep	53	47	59	53	25	3.4	39	24-Sep
PUBLIC	HARDIN		1.9	56	39 *	56	50	18	3.5	42	13-Sep	55	47	* 67	56	17	3.7	40	21-Sep
PUBLIC	BSR 101		1.9	56	32	42	43	32	3.2	43	15-Sep	50	40	50	47	39	3.3	40	24-Sep
PUBLIC	STURDY		2.0	58	34 *	53	48	25	3.6	42	16-Sep	54	41	60	52	37	3.7	40	25-Sep
PUBLIC	CORSOY 79		2.1	58	35 *	55	49	15	3.9	44	16-Sep	54	40	62	52	16	4.1	41	25-Sep
ASGROW	A 1553		1.5	63	34	42	46	37	3.5	38	09-Sep								
ASGROW	A 1900		1.9	* 68	40 *	56	* 55	15	3.3	38	12-Sep	62	48	* 63	* 58	15	2.9	37	20-Sep
CENEXL'O'L	L1475		1.4	57	42 *	55	51	12	3.9	40	10-Sep								
CROW	19001		1.9	* 66	31	43	47	41	3.4	40	13-Sep								
DAHLCO	DS 9140		1.4	62 *	44	49	52	13	2.8	38	09-Sep								
DAHLCO	DS 9141		1.4	61 *	44	47	51	19	3.3	41	09-Sep								
DAHLCO	DS 9150		1.5	64	32	49	48	30	4.1	39	11-Sep								
DAHLCO	DS 9190		1.9	* 67	37	47	50	22	1.8	36	12-Sep								
DAIRYLAND	DSR-158		1.5	57	38	50	48	21	3.0	38	10-Sep								
DAIRYLAND	DSR-180/STS		1.7	58	40	46	48	26	3.6	40	12-Sep								
DAIRYLAND	DSR-195		1.9	58	29	45	44	36	3.5	41	14-Sep	55	39	53	49	43	3.3	40	23-Sep
DEKALB	CX 121		1.2	53	39 *	54	49	15	2.6	44	09-Sep								
DEKALB	CX 132		1.3	59	38	47	48	31	3.8	39	08-Sep								
DEKALB	CX 145		1.4	56 *	48	49	51	19	2.8	37	06-Sep	55	* 52	56	54	22	2.2	35	14-Sep
DEKALB	CX 173		1.7	62 *	44	51	52	27	2.5	42	10-Sep	59	51	60	* 57	22	2.4	39	18-Sep
DEKALB	CX 205		2.0	* 68	40	47	52	34	3.5	43	13-Sep								
GARST	D174		1.7	56	38	41	45	33	3.6	43	09-Sep								
GARST	D180		1.8	61	37	34	44	42	2.3	38	12-Sep	59	45	48	51	43	2.3	36	22-Sep
GARST	D205		2.0	* 67	37	43	49	23	2.3	38	12-Sep								
GOLDEN HARVEST	H-1184		1.8	* 68 *	44	47	* 53	21	2.5	40	13-Sep	* 64	51	56	* 57	23	2.5	37	22-Sep
GOLDEN HARVEST	H-1190		1.9	65	37	39	47	26	2.3	38	13-Sep	59	44	51	51	24	2.0	35	22-Sep
GOLDEN HARVEST	H-1211		2.0	64	30	43	46	34	2.6	40	14-Sep	60	41	48	50	42	2.5	37	24-Sep

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TABLE 7. CENTRAL REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Group	1997 Yields			1997 2 and 3-Test Average ***				Matur-ity	1996-97 Yields ***			1996-97 4 and 6-Test Average ***					
			Matur-ity **	FON	GAL	HAN	Yield	White	Lod.		Height	FON	GAL	HAN	Yield	White	Lod.	Height	Matur-ity
				Bu/A	%	1-5		In	Date		%					1-5	In	Date	
GROWMARK	FS HISOY 1452		1.4	58 *	48	50	52	16	3.1	42	08-Sep	57	* 54	58	56	13	2.5	39	13-Sep
GROWMARK	FS HISOY HS 1771		1.7	59	32	47	46	21	3.7	39	11-Sep								
GROWMARK	FS HISOY HS 2171		2.1	* 67	43	49	* 53	11	2.9	39	13-Sep								
GUTWEIN	7200		2.0	54	40	49	48	7	2.8	42	15-Sep	53	46	55	51	14	2.6	39	24-Sep
GUTWEIN	7242		2.4	65	33	38	45	27	2.7	40	16-Sep	56	38	49	48	28	2.3	37	25-Sep
JUNG	TNT 144		1.5	59	38	45	47	18	2.9	39	12-Sep	55	46	59	53	18	2.3	36	18-Sep
JUNG	1170		1.7	60	30	38	43	27	1.9	36	10-Sep	59	41	50	50	26	1.7	33	18-Sep
KALTENBERG	KB 095		0.9	58	27	30	38	50	3.3	36	06-Sep								
KALTENBERG	KB 106		1.0	57 *	44	39	47	19	2.6	40	08-Sep								
KALTENBERG	KB 128		1.2	64	43	47	51	16	2.9	36	08-Sep								
KALTENBERG	KB 145		1.4	59	43	45	49	21	2.9	41	09-Sep	59	48	52	53	23	2.7	40	20-Sep
KALTENBERG	KB 168		1.6	62	40	46	49	25	3.3	41	12-Sep								
KALTENBERG	KB 184		1.8	* 66 *	48	48	* 54	18	2.7	40	12-Sep	61	* 53	56	* 57	23	2.6	38	21-Sep
KALTENBERG	KB 186		1.8	62	39	37	46	31	2.1	37	12-Sep	59	49	51	53	29	1.9	34	22-Sep
KALTENBERG	KB 195		1.9	62	26	34	41	46	3.3	40	14-Sep								
KALTENBERG	KB 208		2.0	* 67	26	32	42	65	3.5	40	14-Sep								
KALTENBERG	KB 216		2.1	63	39	41	48	40	2.8	39	12-Sep	59	48	57	55	30	2.3	37	20-Sep
LG SEED	LG 6192		1.9	64	31	44	46	42	3.1	41	13-Sep								
LATHAM	150 BRAND		1.2	59	39	44	47	15	2.8	34	06-Sep	55	47	53	52	18	2.2	32	11-Sep
LATHAM	EX-160		1.4	59	42	47	49	24	3.6	43	11-Sep								
LATHAM	250 BRAND		1.8	* 70 *	48	48	* 55	18	2.7	40	13-Sep	* 65	* 55	56	* 59	27	2.5	37	22-Sep
MIDWEST	G 1885		1.8	* 68 *	47 *	52	* 56	19	2.6	39	13-Sep	* 63	* 53	57	* 58	19	2.6	37	22-Sep
MYCOGEN	5205		2.0	* 66	27	48	47	33	2.8	40	13-Sep	61	39	48	49	43	2.8	38	25-Sep
MYCOGEN	200		2.0	* 70	38	34	47	35	2.1	38	12-Sep	* 65	47	50	54	31	2.0	35	23-Sep
NORTHRUP-KING	S12-49		1.2	61 *	46	44	50	15	2.6	39	09-Sep								
NORTHRUP-KING	S13-J6		1.3	61	39	39	46	30	3.2	37	09-Sep								
NORTHRUP-KING	S19-90		1.9	* 67 *	47 *	55	* 56	5	2.1	42	12-Sep	60	* 53	60	* 58	8	2.0	38	23-Sep
PATRIOT	188		1.8	* 66	27	41	45	48	3.9	38	09-Sep								
PATRIOT	192		1.9	61	31	41	44	51	3.3	40	13-Sep								
PATRIOT	196		2.0	* 66	28	47	47	33	3.0	41	14-Sep								
PIONEER	9172		1.7	60	35	37	44	33	3.0	40	10-Sep	55	44	54	51	26	2.5	37	17-Sep

CONTINUED

TABLE 7. CENTRAL REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Three Central Wisconsin Locations.

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

Originator/Brand	Entry	Group	1997 Yields			1997 2 and 3-Test Average ***				Matur-ity	1996-97 Yields ***			1996-97 4 and 6-Test Average ***					
			Matur-ity **	FON	GAL	HAN	Yield	White Mold	Lod. **		Height	FON	GAL	HAN	Yield	White Mold	Lod. **	Height	Matur-ity
			----- Bu/A -----			%			----- Bu/A -----			%							
RAMYLA CROSSE	1525		1.5	56 *	45	49	50	18	3.3	41	12-Sep								
RAMYLA CROSSE	1800		1.8	62	39	40	47	26	2.3	37	13-Sep	57	46	52	52	31	2.5	34	23-Sep
RAMYLA CROSSE	1995		1.9	64	40	41	48	23	2.3	38	13-Sep	61	47	53	54	22	2.2	35	23-Sep
RAMYLA CROSSE	2195		2.0	62	34	30	42	49	3.0	40	13-Sep								
RENK	RS 0995		0.9	57 *	44	46	49	24	3.1	39	08-Sep	51	48	55	51	17	2.4	35	15-Sep
RENK	RS 1493		1.4	58 *	44	47	50	10	2.6	38	09-Sep	53	48	56	52	11	2.1	35	16-Sep
RENK	RS 1896		1.8	64	39	45	49	18	2.1	37	13-Sep	59	47	54	53	20	1.8	34	22-Sep
RENK	RS 1994		1.9	62 *	45	48	52	15	3.3	40	13-Sep								
SPANGLER	SPANSOY 133		1.3	55	39	41	45	39	3.8	41	09-Sep								
SPANGLER	SPANSOY 176		1.7	61	37	47	48	13	2.4	37	15-Sep	58	43	53	51	22	2.0	34	23-Sep
SPANGLER	SPANSOY 201		2.0	59	34	39	44	38	2.5	41	11-Sep	59	48	54	54	30	2.4	38	20-Sep
STINE	1386		1.2	64 *	46	50	* 53	18	2.5	38	10-Sep								
STINE	1980		1.9	65	38	42	48	26	2.7	37	13-Sep	61	44	52	52	30	2.1	34	22-Sep
STINE	2500		2.0	65 *	46	46	52	28	2.8	40	13-Sep								
TERRA	TS 084		0.8	58	27	36	40	60	3.3	34	06-Sep								
TERRA	E 147		1.4	61 *	46	46	51	20	2.7	37	09-Sep								
TERRA	TS 174		1.7	60	26	28	38	61	2.8	36	12-Sep	57	34	37	43	71	2.5	34	23-Sep
TERRA	TS 194		1.9	64 *	45	46	52	20	2.7	39	13-Sep								
TERRA	TS 200		2.0	65	41	41	49	19	2.3	39	13-Sep	62	47	54	54	23	2.1	36	23-Sep
TOPFARM	TF 6147		1.4	59	36	38	44	41	3.6	40	09-Sep								
TOPFARM	TF 6175		1.7	60	34	40	45	28	1.8	36	10-Sep								
TOPFARM	TF E188		1.8	61	30	40	44	47	3.3	40	14-Sep								
TRELAY	156		1.5	55	37	49	47	26	3.2	40	12-Sep								
TRELAY	196		1.9	57	34	43	45	36	2.6	40	10-Sep								
UAP	DYNA-GRO 3188		1.8	64 *	44	47	52	23	2.3	40	14-Sep								
UAP	DYNA-GRO 3195		1.9	65	29	38	44	49	3.3	40	13-Sep	62	39	50	50	42	3.6	39	23-Sep
UAP	DYNA-GRO 3196		1.9	* 67	42	39	49	26	2.1	38	13-Sep	* 63	49	55	56	26	2.0	36	21-Sep
UAP	DYNA-GRO 3210		2.1	63	28	51	47	18	2.7	40	15-Sep	59	38	52	50	31	2.5	38	25-Sep
MEAN				61	38	45	48	27	2.9	39	11-Sep	57	46	55	53	26	2.6	37	20-Sep
LSD(0.10)**				4	5	5	3					3	3	4	2				
LSD(0.30)**				3	3	3	2					2	2	3	2				

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

** See Text For Further Explanation.

*** Galesville and Hancock sites were infected by Sclerotinia disease(White Mold) again in 1997 with the ratings presented as % of plants infected prior to maturity.

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

TABLE 8. NORTH-CENTRAL REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Four North Central Wisconsin Locations.

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

		Matur-	1997 Yields				1997 4-Test Average				1996-97 Yields			1996-97 7-Test Ave.				
Originator/Brand Entry		ity ** Group	CHP	MAR	SEY	VAL	Yield	Lod. **	Height In	Matur- ity	CHP	SEY	VAL	Yield	Lod. **	Height In	Matur- ity	Date
			-----Bu/A-----						In		-----Bu/A-----					In		Date
PUBLIC	GLACIER	0.8	39	24	50	37	38	3.1	29	07-Sep	40 *	43	38	38	2.3	27	08-Sep	
PUBLIC	MN 0301	0.3	50	30	57	30	42	3.1	32	13-Sep								
PUBLIC	AGASSIZ	0.4	46	30	49	18	36	2.6	32	08-Sep	42 *	42	31	37	1.8	29	08-Sep	
PUBLIC	LAMBERT	0.8	51	40	60	25	44	3.0	34	16-Sep	44 *	44	35	41	2.4	30	18-Sep	
PUBLIC	DASSEL	0.9	43	45	56	41	46	2.8	31	19-Sep								
PUBLIC	MN 1301	1.3	44	51	59	48	51	2.3	38	18-Sep								
PUBLIC	MN 1401	1.4	50	51	62	50	53	2.7	39	25-Sep								
PUBLIC	PARKER	1.5	51	45	64 *	53	53	3.5	39	23-Sep	50 *	59 *	51	52	3.1	37	24-Sep	
PUBLIC	GRANITE	1.8	53	47	62 *	53	54	3.2	38	28-Sep	50 *	58	50	52	2.7	36	29-Sep	
PUBLIC	HARDIN	1.9	52	49	65	49	54	2.9	38	25-Sep	48 *	57 *	52	52	2.6	36	25-Sep	
PUBLIC	BSR 101	1.9	58	48	64	45	54	3.0	37	28-Sep								
ASGROW	A 1553	1.5	51	53	62 *	56	56	2.6	32	27-Sep								
CENEXL'O'L	L1083	1.0	52	49	64	47	53	2.7	33	22-Sep								
CENEXL'O'L	L1187	1.1	56	46	62 *	54	55	3.2	35	22-Sep								
DAHLCO	DS 9040	0.4	44	34	54	36	42	2.8	32	15-Sep								
DAHLCO	DS 9120	1.2	60	46	58	45	52	2.4	33	24-Sep								
DAHLCO	DS 9140	1.4	56	50	64	52	56	2.4	33	24-Sep								
DAHLCO	DS 9141	1.4	58	51	65 *	54	57	2.6	39	24-Sep								
DAHLCO	DS 9150	1.5	55	50	66 *	58	57	2.8	34	29-Sep								
DAIRYLAND	DSR-065	0.6	56	39	62	46	51	2.5	31	20-Sep								
DAIRYLAND	DST 0907	0.7	52	44	60	49	51	2.8	33	20-Sep								
DAIRYLAND	DSR-133	1.3	55	42	60 *	53	53	3.1	37	23-Sep	52 *	56 *	51	51	2.6	35	23-Sep	
DAIRYLAND	DSR-158	1.5	* 64	50	58	47	55	2.8	35	27-Sep								
DEKALB	CX 132	1.3	50	50	65 *	55	55	3.4	34	24-Sep								
DEKALB	CX 145	1.4	55	53	63	44	54	2.5	33	21-Sep	* 55 *	59	48	* 54	2.0	32	21-Sep	
DEKALB	CX 173	1.7	57 *	58	64 *	54	58	2.2	39	25-Sep	52 *	60	50	* 54	2.1	36	25-Sep	
GARST	D061	0.6	48	46	55	41	48	2.8	35	19-Sep								
GARST	EX 7173	1.4	* 65	46 *	69 *	55	* 59	2.9	37	28-Sep								

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TABLE 8. NORTH-CENTRAL REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Four North Central Wisconsin Locations.

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

Originator/Brand Entry	Matur-ity **	1997 Yields				1997 4-Test Average				1996-97 Yields			1996-97 7-Test Ave.			
		CHP	MAR	SEY	VAL	Yield	Lod. **	Height	Matur-ity	CHP	SEY	VAL	Yield	Lod. **	Height	Matur-ity
		-----Bu/A-----				1-5	In	-----Bu/A-----				1-5	In	Date		
GOLDEN HARVH-1082	0.8	52	45	55	37	47	2.4	32	20-Sep	50 *	50	42	47	1.8	30	20-Sep
GOLDEN HARVH-1162	1.6	60	52	66	48	57	2.1	34	26-Sep							
GOLDEN HARVH-1184	1.8	59	55	65	51	58	2.3	35	30-Sep	* 54 *	* 61 *	52	* 55	1.9	34	30-Sep
GOLDEN HARVH-1190	1.9	55	57 *	72	51	* 59	1.9	33	01-Oct	52 *	* 63 *	51	* 55	1.6	32	01-Oct
GROWMARK FS HISOY 1071	1.0	50	54	61	41	52	2.4	32	23-Sep							
GROWMARK FS HISOY 1331	1.3	60	50	59 *	57	57	2.8	37	29-Sep	* 56 *	* 57 *	54	* 55	2.5	36	29-Sep
GROWMARK FS HISOY 1452	1.4	56	50	65	47	55	2.5	38	22-Sep	48 *	59	49	52	2.0	37	23-Sep
GROWMARK FS HISOY HS 17	1.7	57	55 *	69 *	55	* 59	3.1	34	29-Sep							
JUNG 1086	0.9	* 61	50	62	47	55	2.4	36	22-Sep	* 55 *	55	50	53	2.1	33	22-Sep
JUNG 1126	1.2	59	52	62	48	55	3.1	37	25-Sep							
JUNG 1138	1.4	57	46	61 *	58	56	3.0	36	26-Sep	51 *	* 58 *	54	* 53	2.6	34	26-Sep
JUNG TNT 144	1.5	60	54	63	51	57	2.3	36	27-Sep	* 55 *	* 58 *	51	* 54	1.7	34	28-Sep
KALTENBERG KB 076	0.7	52	50	61	41	51	2.1	34	20-Sep							
KALTENBERG KB 095	0.9	55	45	53	40	48	2.8	31	20-Sep							
KALTENBERG KB 106	1.0	58	50	61	52	55	2.4	36	22-Sep	52 *	* 56 *	53	* 53	2.2	33	22-Sep
KALTENBERG KB 128	1.2	51	48	62 *	53	54	2.5	33	26-Sep							
LG SEED LG 6091	0.9	55	51	61	50	54	2.6	36	23-Sep	50 *	* 54 *	52	52	2.4	32	23-Sep
LG SEED LG 6145	1.4	57	53	67	51	57	2.7	36	26-Sep	* 54 *	59	49	* 54	2.1	34	26-Sep
MIDWEST G 1400	1.4	56	46	60 *	55	54	2.8	37	27-Sep							
MIDWEST G 1502	1.5	55	50	64 *	53	56	2.5	36	27-Sep							
NORTHRUP-KIN S08-80	0.8	53	45	63	50	53	2.9	37	23-Sep	51 *	* 57 *	51	52	2.1	33	23-Sep
NORTHRUP-KIN S12-49	1.2	51	49	61	48	52	2.4	35	24-Sep	50 *	56	50	51	1.9	32	24-Sep
NORTHRUP-KIN S13-J6	1.3	49	51	66 *	58	56	2.4	33	28-Sep							
PATRIOT 148	1.4	57	51	64	51	56	3.1	36	27-Sep							
PIONEER 9071	0.7	53	50	54	47	51	2.9	33	20-Sep	49 *	50	49	49	2.1	31	20-Sep
PIONEER 9132	1.3	57	49	59	51	54	2.1	32	25-Sep	50 *	* 55 *	51	51	1.6	31	24-Sep
RAMYLA CROS 990	0.9	53	48	52	48	50	2.8	32	19-Sep	49 *	50	48	49	2.0	30	19-Sep
RAMYLA CROS 1525	1.5	59	50	62	49	55	2.7	37	01-Oct	52 *	55	48	51	2.4	36	01-Oct

CONTINUED

TABLE 8. NORTH-CENTRAL REGION SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Four North Central Wisconsin Locations.

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

Originator/Brand Entry	Matur-ity **	Group	1997 Yields				1997 4-Test Average				1996-97 Yields			1996-97 7-Test Ave.			
			CHP	MAR	SEY	VAL	Yield	Lod. **	Height	Matur-ity	CHP	SEY	VAL	Yield	Lod. **	Height	Matur-ity
			-----Bu/A-----				1-5	In	-----Bu/A-----			1-5	In	Date			
RENK RS 0995	0.9		58	51	63	51	56	2.7	36	24-Sep	* 54 *	* 57 *	* 53	* 54	2.4	33	23-Sep
SPANGLER SPANSOY 077	0.7		52	48	64 *	54	55	2.9	35	20-Sep							
SPANGLER SPANSOY 088	0.8		54	50	66	48	55	2.3	36	23-Sep	49 *	* 59 *	* 51	52	2.0	34	22-Sep
SPANGLER SPANSOY 133	1.3		59	48	66 *	56	57	2.9	37	25-Sep							
STINE 1073	1.0		56	53	62	48	55	2.9	34	23-Sep	51 *	* 55	50	52	2.0	30	23-Sep
STINE 1386	1.2		58 *	58	65 *	56	* 59	2.3	36	29-Sep							
STINE 1680	1.5		* 64	52	66	51	58	2.7	35	30-Sep							
TERRA TS 084	0.8		55	45	56	48	51	2.6	31	20-Sep	51 *	* 52	49	50	1.9	29	20-Sep
TERRA TS 174	1.7		* 61	51 *	70	49	58	2.3	33	01-Oct							
TERRA TS 194	1.9		59 *	63 *	70 *	59	* 63	2.1	36	01-Oct							
TERRA E 147	1.4		56	53	62	48	55	2.4	34	26-Sep							
TOPFARM TF 6056	0.5		46	44	50	46	47	2.9	33	18-Sep							
TOPFARM TF 6096	0.9		51	45	54	44	49	2.2	33	25-Sep							
TRELAY 095	0.9		55	52	66	46	55	2.5	35	24-Sep							
UAP DYNA-GRO 307	0.7		54	44	55	42	49	2.6	32	20-Sep							
UAP DYNA-GRO 309	1.2		49	39	59 *	53	50	2.9	36	23-Sep	51 *	* 53	50	49	2.1	35	23-Sep
UAP DYNA-GRO 312	1.2		53	43	57	52	51	2.9	32	21-Sep	51 *	* 54	50	50	2.2	30	21-Sep
UAP DYNA-GRO 318	1.8		* 61	49	66 *	59	* 59	2.4	36	01-Oct							
UAP DYNA-GRO 319	1.9		55	53 *	72 *	58	* 60	2.6	36	01-Oct	* 53 *	* 64 *	* 53	* 56	2.4	36	01-Oct
UAP DYNA-GRO 319	1.9		54	56 *	68 *	58	* 59	2.1	33	02-Oct	* 53 *	* 60 *	* 53	* 55	1.7	32	02-Oct
MEAN			54	48	62	49	53	2.7	35	23-Sep	50	55	49	51	2.2	33	23-Sep
LSD(0.10)**			5	5	4	7	4				4	3	4	3			
LSD(0.30)**			3	3	3	4	3				2	2	3	2			

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

** See Text For Further Explanation

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

TABLE 9. NORTHERN REGION SOYBEAN TEST
1997 Performance of Public and Commercial Entries at a North Wisconsin Location.
SPOONER

Originator/Brand	Entry	Matur- ity ** Group	1997			
			Yield	Lod- ing	Height	Maturity
			bu/a	**	in.	Date
PUBLIC	GLACIER	0.8	23	1.5	27	06-Sep
PUBLIC	MN 0301	0.3	32	1.0	33	13-Sep
PUBLIC	AGASSIZ	0.4	27	1.0	29	10-Sep
PUBLIC	LAMBERT	0.8	31	1.5	30	14-Sep
PUBLIC	DASSEL	0.9	30	1.0	30	19-Sep
PUBLIC	MN 1301	1.3	* 38	1.0	37	22-Sep
PUBLIC	HODGSON 78	1.4	30	1.3	37	26-Sep
DAIRYLAND	DSR-065	0.6	27	1.0	30	18-Sep
DAIRYLAND	DST 0907	0.7	* 34	1.0	30	18-Sep
GARST	D061	0.6	31	1.0	33	18-Sep
GOLDEN HARVEST	H-1082	0.8	27	1.0	27	17-Sep
JUNG	1086	0.9	* 35	1.0	34	18-Sep
KALTENBERG	KB 076	0.7	24	1.0	29	16-Sep
KALTENBERG	KB 095	0.9	28	1.0	27	16-Sep
LG SEED	LG 6091	0.9	* 35	1.0	33	17-Sep
NORTHRUP-KING	S08-80	0.8	* 35	1.0	34	19-Sep
PIONEER	9071	0.7	25	1.0	28	16-Sep
RAMYLA CROSSE	990	0.9	29	1.0	28	16-Sep
RENK	RS 0995	0.9	* 38	1.0	34	19-Sep
SPANGLER	SPANSOY 077	0.7	* 35	1.0	34	19-Sep
SPANGLER	SPANSOY 088	0.8	* 35	1.0	33	18-Sep
TRELAY	095	0.9	* 38	1.0	36	19-Sep
UAP	DYNA-GRO 3075	0.7	26	1.0	21	16-Sep
Mean			32	1	31	17-Sep
LSD (0.10)			4			

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

** See Text For Further Explanation

TABLE 10. BROWN STEM ROT SOYBEAN TEST
1997 Performance of Varieties in Brown Stem Rot Disease Environments at Janesville and Arlington with two Tillages.

Originator/Brand	Entry	Matur- ity ** Group	Yield					BSR Disease Severity				
			Janesville	Arlington		1997 Mean	1996-97 6-Test Ave.	Janesville	Arlington		1997 Mean	1996-97 6-Test Ave.
				Conv. Tillage	No- Tillage				Conv. Tillage	No- Tillage		
			-----Bu/a-----					-----AUDPC ***-----				
PUBLIC	PARKER	1.5	54	48	38	47		48	81	87	72	
PUBLIC	GRANITE	1.8	* 61	52	48	* 54	52	23	18	16	19	36
PUBLIC	ARCHER	1.9	56	50	48	51	51	22	25	* 9	18	25
PUBLIC	HARDIN	1.9	* 63	47	41	50	49	35	90	77	67	67
PUBLIC	BSR 101	1.9	54	52	* 53	* 53	51	* 14	17	* 4	12	26
PUBLIC	STURDY	2.0	52	44	41	46	47	40	67	68	58	66
PUBLIC	CORSOY 79	2.1	53	42	38	44		37	90	88	71	
PUBLIC	DAWSON	2.2	52	36	35	41		50	57	103	70	
DAIRYLAND	DSR-250/STS	2.5	37	50	45	44		* 14	* 6	* 0	* 7	
DAIRYLAND	DSR-277	2.7	55	* 56	* 54	* 55	* 54	* 9	* 2	* 1	* 4	* 19
DEKALB	CX 145	1.4	* 59	52	44	52		28	38	47	38	
DEKALB	CX 197	1.9	55	49	52	52		18	25	17	20	
GUTWEIN	7200	2.0	56	53	50	* 53	51	22	25	* 12	19	28
GUTWEIN	7266	2.6	55	* 55	* 55	* 55		18	* 7	* 9	11	
GUTWEIN	7277	2.7	52	54	* 53	* 53	* 55	* 11	* 4	* 3	* 6	* 18
KALTENBERG	KB 208	2.0	43	48	47	46		20	44	45	36	
KALTENBERG	KB 214	2.1	47	53	47	49		19	22	17	19	
KALTENBERG	KB 241	2.4	49	49	52	50	52	18	28	* 9	18	36
KALTENBERG	KB 245	2.4	47	53	* 53	51		17	* 12	* 1	* 10	
KALTENBERG	KB 259	2.5	43	51	52	49		15	18	* 3	12	
KALTENBERG	KB 274	2.7	44	* 55	52	50	50	* 14	* 1	* 2	* 6	* 17
KALTENBERG	KB 298	2.9	44	* 57	50	50		* 11	* 9	* 6	* 9	
MARK	MRK 9825	2.4	45	54	50	50		17	* 13	* 14	15	
MARK	MRK 9225	2.5	48	53	48	50	52	20	21	16	19	30
MARK	MRK 9827	2.7	41	53	* 57	50		* 13	* 4	* 0	* 6	
STINE	2488	2.4	52	* 59	* 53	* 55		18	* 5	* 4	* 9	
TERRA	TS 174	1.7	40	53	50	48	49	17	21	* 11	16	37
TERRA	TS 200	2.0	55	50	49	51		18	29	* 13	20	
TERRA	E 147	1.4	* 64	47	50	* 54		18	29	44	30	
TERRA	E 267	2.6	51	53	* 54	* 53		17	16	* 10	14	
Means			51	51	49	50	51	21	27	24	24	34
LSD (.10)			7	4	4	3	3	6	14	14	7	6

* Yields and disease ratings preceded by a "*" are not significantly different (0.10 level) than the best performing cultivar in this test.

** See Test for Further Explanation.

***AUDPC=Area Under Disease Progress Curve is a unitless number which indicates total Brown Stem Rot disease present throughout the season.

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

TABLE 11. WHITE MOLD (SCLEROTINIA) SOYBEAN TEST

1997 Performance of Varieties in a White Mold Disease Environment at Galesville and Arlington in Wide and Narrow rows. **

Originator/Brand	Entry	Matur- ity *** Group	Yield						White Mold Severity					
			Galesville		Arlington		1997 Mean	1996-97 ** 6-Test Ave.	Galesville		Arlington		1997 Mean	1996-97 ** 6-Test Ave.
			Wide	Narrow	Wide	Narrow			Wide	Narrow	Wide	Narrow		
			Bu/a						% Incidence					
PUBLIC	LAMBERT	0.8	39	* 43	33	44	40	35	14	33	1	9	14	* 9
PUBLIC	DASSEL	0.9	34	36	37	39	37	36	12	28	1	3	* 11	* 8
PUBLIC	MN 1301	1.3	46	40	40	44	43		5	12	3	10	* 7	
PUBLIC	HODGSON 78	1.4	45	35	38	35	38	38	4	31	1	28	16	* 13
PUBLIC	PARKER	1.5	* 48	34	42	41	41	42	6	48	28	38	30	28
PUBLIC	HARDIN	1.9	45	37	45	46	43	43	5	30	7	16	14	* 12
PUBLIC	BSR 101	1.9	46	34	40	48	42	42	2	20	52	35	27	25
PUBLIC	MN 1401	1.4	45	42	48	* 54	* 47		3	15	16	9	* 11	
PUBLIC	STURDY	2.0	45	33	40	40	40	39	11	29	50	53	36	34
PUBLIC	CORSOY	2.1	* 50	33	40	29	38	37	4	19	32	65	30	21
PUBLIC	CORSOY 79	2.1	47	36	39	34	39	38	4	11	20	38	18	15
PUBLIC	DAWSON	2.2	39	36	45	35	39	39	24	43	2	1	17	18
PUBLIC	E 93147		38	38	51	* 50	44		1	21	12	32	16	
PUBLIC	E 93424		40	40	47	* 51	* 45		2	14	20	28	16	
ASGROW	A 1900	1.9	40	40	48	48	44		12	12	40	43	27	
ASGROW	A 2247	2.2	41	36	50	38	41		8	24	55	80	42	
ASGROW	AG 2501	2.5	38	* 45	* 55	* 55	* 48		1	3	6	15	* 6	
CENEXL'O'L	L1984	1.9	41	42	47	* 52	* 46		2	9	48	25	21	
DAIRYLAND	DSR-173	1.6	43	* 46	45	45	* 45	* 45	2	6	7	28	* 11	* 10
DAIRYLAND	DSR-195	1.9	41	30	46	40	39		25	40	45	67	44	
DAIRYLAND	DSR-220/STS	2.2	41	34	42	36	38	40	8	19	45	57	32	29
DAIRYLAND	DSR-277	2.7	43	36	51	46	44	42	22	11	43	40	29	30
DEKALB	CX 197	1.9	40	41	45	43	42		2	15	33	55	26	
DEKALB	CX 205	2.0	44	38	39	38	40		6	13	58	85	40	
DEKALB	CX 228	2.2	44	* 45	45	41	44		4	5	43	43	24	
GOLDEN HARVEST	H-1162	1.6	36	39	41	34	38		21	15	62	78	44	
GOLDEN HARVEST	H-1184	1.8	40	* 45	49	43	44	* 46	1	3	48	68	30	25
GOLDEN HARVEST	H-1190	1.9	37	38	48	42	41	42	11	23	25	35	23	21
GROWMARK	FS HISOY 215	2.1	* 52	* 44	49	47	* 48		3	4	17	30	* 13	
GROWMARK	FS HISOY HT 221	2.2	42	* 43	44	45	44		7	10	57	47	30	

CONTINUED

TABLE 11. WHITE MOLD (SCLEROTINIA) SOYBEAN TEST

1997 Performance of Varieties in a White Mold Disease Environment at Galesville and Arlington in Wide and Narrow rows. **

Originator/Brand	Entry	Matur-ity *** Group	Yield						White Mold Severity					
			Galesville		Arlington		1997	1996-97 **	Galesville		Arlington		1997	1996-97 **
			Wide	Narrow	Wide	Narrow	Mean	6-Test Ave.	Wide	Narrow	Wide	Narrow	Mean	6-Test Ave.
			Bu/a						% Incidence					
GUTWEIN	7200	2.0	43	* 44	45	* 55	* 47	* 46	3	4	20	18	* 11	* 12
GUTWEIN	7277	2.7	41	38	47	* 54	* 45	42	19	13	70	33	34	32
JUNG	TNT 144	1.5	38	34	* 59	* 54	* 46	* 45	3	15	23	18	15	* 11
KALTENBERG	KB 145	1.4	44	39	44	* 50	44	43	10	16	18	43	22	18
KALTENBERG	KB 168	1.6	41	40	42	44	42	43	6	14	37	48	26	26
KALTENBERG	KB 184	1.8	37	* 43	45	49	44	* 44	4	8	53	40	26	22
KALTENBERG	KB 186	1.8	38	40	47	40	41	43	11	20	22	65	29	29
MARK	MRK 9519	1.9	39	* 47	42	* 56	* 46	* 46	3	8	38	37	22	19
MARK	MRK 9721	2.1	39	30	41	42	38	43	18	39	72	42	42	42
MARK	MRK EX 921	2.1	36	22	30	41	32	43	48	64	88	78	69	69
MIDWEST	G 1885	1.8	41	41	50	45	44	43	2	11	35	63	28	28
NORTHRUP-KING	S19-90	1.9	42	41	50	45	* 45	* 45	1	4	12	23	* 10	* 9
NORTHRUP-KING	S20-B9	2.0	40	41	50	43	44	43	1	5	12	33	* 13	13
NORTHRUP-KING	S22-N2	2.2	40	36	49	45	43	43	4	17	45	43	27	27
PIONEER	9163	1.6	43	* 45	45	47	* 45	45	3	8	8	28	* 12	12
RAMYLA CROSSE	1993	1.9	43	42	45	* 50	* 45	45	2	10	32	25	17	17
RAMYLA CROSSE	2097	2.0	41	* 43	51	* 57	* 48	48	1	10	25	15	* 13	13
TERRA	TS 084	0.8	33	31	42	46	38	38	29	38	2	10	20	20
TERRA	TS 194	1.9	41	* 43	46	* 51	* 45	45	6	11	25	32	18	18
TERRA	E 147	1.4	37	* 44	46	46	43	43	3	11	10	14	* 9	9
TERRA	E 267	2.6	40	38	38	46	41	41	49	22	75	43	47	47
UAP	DYNA-GRO 3188	1.8	41	* 48	48	* 50	* 47	47	1	4	37	38	20	20
Mean			41	39	45	45	43	41	9	18	31	38	24	19
LSD (.10)			5	6	7	8	3	2	9	12	16	22	7	5

* Yields and disease ratings preceded by a "*" are not significantly different (0.10 level) than the best performing cultivar in this test.

** Row widths are 7.5 inches for narrow and 30 inches for wide and the White Mold Incidence is % of plants infected prior to maturity and two year means are for Galesville in 1996 and both Arlington and Galesville sites in 1997.

*** See Text for Further Explanation.

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

TABLE 12. NO-TILL vs. CONVENTIONAL TILLAGE SOYBEAN TEST

1997 Performance of Public and Commercial Entries at Southern WI Locations Under No-Till and Conv.-Till in 7.5" rows.

ARL = Arlington, LAN = Lancaster

Originator/Brand	Entry	Matur-ity ** Group	NO-TILLAGE									CONVENTIONAL-TILLAGE								
			1997 Yields		1997 Average			1996-97 Ave.		1997 Yields		1997 Average			1996-97 Ave.					
			ARL	LAN	Yield	Rank	Lod. **	Height	Matur-ity	Yield	Rank	1/	ARL	LAN	Yield	Rank	Lod. **	Height	Matur-ity	Yield
			----- Bu/A-----			1-5	In	Date	--Bu/A--			----- Bu/A-----			1-5	In	Date	--Bu/A--		
PUBLIC	DASSEL	0.9	33	53	43	32	1.9	29	20-Sep	39	21	39	52	46	32	3.1	31	17-Sep	44	21
PUBLIC	MIN 1401	1.4	41	58	50	29	2.0	37	26-Sep			47	59	53	31	2.5	40	23-Sep		
PUBLIC	PARKER	1.5	44	63	54	24	3.5	38	27-Sep	48	20	49	62	56	27	3.8	40	23-Sep	54	19
PUBLIC	HARDIN	1.9	42	62	52	27	2.5	31	28-Sep	50	17	44	69	57	25	4.0	39	23-Sep	57	15
PUBLIC	HARDIN 91	1.9	43	68	56	23	2.6	34	30-Sep	53	15	47	62	55	29	4.4	37	25-Sep	54	19
PUBLIC	BSK 101	1.9	52	66	59	15	1.9	36	02-Oct	55	11	52	67	60	23	3.0	38	28-Sep	58	14
PUBLIC	SIUKDY	2.0	35	61	48	30	2.8	35	30-Sep	50	17	44	67	56	27	4.0	40	26-Sep	57	15
PUBLIC	CORSOY 79	2.1	32	64	48	30	2.4	38	26-Sep	50	17	45	64	55	29	3.9	42	25-Sep	55	18
DAIRYLAND	DSR-220S1S	2.2	48	67	58	18	1.6	34	04-Oct	55	11	56	65	61	19	3.5	38	30-Sep	59	12
DAIRYLAND	DSR-246S1S	2.4	41	66	54	24	1.9	32	05-Oct	54	14	47	66	57	25	2.1	34	03-Oct	56	17
DAIRYLAND	DSR-271/RK	2.7	47	66	57	21	2.1	38	05-Oct			51	64	58	24	2.8	41	04-Oct		
DAIRYLAND	DSR-277	2.7	60	67	64	2	1.5	34	08-Oct	60	2	61	74	68	1	1.9	36	08-Oct	65	1
DAIRYLAND	DSR-293/RK	2.9	47	72	60	12	2.0	37	06-Oct			53	80	67	4	2.4	38	04-Oct		
DEKALB	CX 229	2.2	36	71	54	24	2.4	33	01-Oct	51	16	47	75	61	19	3.3	36	28-Sep	59	12
GOLDEN HARVEST	H-1190	1.9	49	71	60	12	1.6	33	01-Oct	55	11	51	73	62	17	1.9	35	27-Sep	60	11
GOLDEN HARVEST	H-1263	2.6	49	72	61	7	1.5	35	03-Oct	57	6	54	74	64	13	1.9	34	01-Oct	62	6
GUIWEIN	7242	2.4	47	71	59	15	1.8	33	03-Oct	56	7	50	72	61	19	2.5	37	04-Oct	61	8
GUIWEIN	7266	2.6	50	70	60	12	1.9	34	06-Oct			56	75	66	6	2.1	36	03-Oct		
GUIWEIN	7277	2.7	49	66	58	18	1.8	35	07-Oct	58	5	58	73	66	6	2.8	40	05-Oct	64	3
KALLENBERG	KB 195	1.9	39	65	52	27	2.1	33	04-Oct			52	70	61	19	3.3	35	29-Sep		
KALLENBERG	KB 214	2.1	49	72	61	7	1.5	32	30-Sep	56	7	51	72	62	17	1.9	35	25-Sep	61	8
KALLENBERG	KB 241	2.4	47	70	59	15	1.6	33	03-Oct	56	7	55	75	65	9	2.1	34	30-Sep	61	8
KALLENBERG	KB 259	2.5	48	73	61	7	2.0	33	05-Oct			54	73	64	13	2.5	34	01-Oct		
KALLENBERG	KB 274	2.7	53	72	63	4	1.5	34	08-Oct	62	1	57	74	66	6	1.9	34	04-Oct	62	6
KALLENBERG	KB 298	2.9	50	74	62	5	2.0	35	08-Oct			57	78	68	1	2.0	35	05-Oct		
MAKK	MKK 9825	2.4	50	73	62	5	2.1	35	05-Oct	59	3	61	72	67	4	2.4	36	02-Oct	65	1
MAKK	MKK 9826	2.6	48	68	58	18	2.1	35	04-Oct	56	7	56	72	64	13	2.5	34	02-Oct	63	5
MAKK	MKK 9827	2.7	55	75	65	1	1.5	34	08-Oct			55	75	65	9	2.0	35	05-Oct		
SIINE	2488	2.4	58	70	64	2	1.6	35	06-Oct			60	70	65	9	2.5	38	03-Oct		
SIINE	2686	2.6	49	72	61	7	1.9	34	05-Oct	59	3	55	80	68	1	2.4	36	01-Oct	64	3
FERRA	1S 174	1.7	48	65	57	21	1.9	32	29-Sep			53	72	63	16	2.5	33	26-Sep		
FERRA	E 267	2.6	53	69	61	7	2.0	34	07-Oct			58	72	65	9	2.4	36	03-Oct		
Mean			47	68	58		2	34	02-Oct	54		52	70	62		3	36	29-Sep	59	
LSD(0.10)**			4	5	3					2		5	5	3					2	
LSD(0.30)**			3	3	2					1		3	3	2					1	

1/ Yield rank of 32 varieties included in this test in 1997 and 21 varieties in 1996-97.

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

** See text for further explanation.

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

TABLE 13. "ROUNDUP READY" SOYBEAN VARIETY TEST

**1997 Performance of Commercial Entries resistant to "Roundup" at three Southern Wisconsin Locations treated with one application of 1qt./acre "Roundup Ultra".
 ARL=ARLINGTON, JAN=JANESVILLE, RAC=RACINE**

Originator/Brand	Entry	Matur- ity ** Group	1997 Yields			1997 3-Test Average			Matur- ity Date
			ARL	JAN	RAC	Yield	Lod. **	Height In	
							1-5		
		Bu/A-----							
AGRIPRO	AP 1702RR	1.7	49	* 70	54	58	2.4	34	17-Sep
AGRIPRO	AP 2002RR	2.0	47	* 72	56	58	2.8	36	19-Sep
ASGROW	AG 1901	1.9	* 54	63	55	57	2.3	37	19-Sep
ASGROW	AG 2101	2.1	* 57	67	* 61	* 62	1.4	32	22-Sep
ASGROW	AG 2301	2.3	* 57	* 72	59	* 63	1.6	34	25-Sep
ASGROW	AG 2401	2.4	50	* 69	59	59	2.2	33	25-Sep
ASGROW	AG 2501	2.5	52	* 70	60	* 61	1.3	31	24-Sep
DAIRYLAND	DSR-215/RR	2.1	* 56	* 69	53	59	1.3	35	22-Sep
DAIRYLAND	DSR-241/RR	2.4	50	67	* 63	60	1.3	31	26-Sep
DAIRYLAND	DSR-271/RR	2.7	51	65	60	59	1.6	36	29-Sep
DAIRYLAND	DSR-293/RR	2.9	52	* 68	60	60	1.9	38	01-Oct
GOLDEN HARVEST	X 176RR	1.9	48	60	56	55	1.9	35	18-Sep
GOLDEN HARVEST	X 258RR	2.5	51	* 68	* 63	* 61	1.3	35	28-Sep
NK BRAND	S14-M7	1.4	46	58	51	52	2.0	31	15-Sep
NK BRAND	S20-B9	2.0	48	61	56	55	1.6	33	22-Sep
NK BRAND	S22-N2	2.2	52	* 70	57	60	1.6	33	23-Sep
PIONEER	92B21	2.2	51	66	56	58	1.5	32	25-Sep
STINE	EX 21RRtm	2.4	* 53	* 70	60	* 61	2.5	34	24-Sep
STINE	EX 26RRtm	2.5	49	* 68	* 64	60	1.5	35	27-Sep
THOMPSON	T-3233RR	2.3	46	63	* 63	57	1.9	33	17-Sep
Mean			51	67	58	59	1.8	34	22-Sep
LSD(0.10)**			4	4	3	2			
LSD(0.30)**			2	2	2	1			

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

** See Text For Further Explanation.

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