

Soybean

1994 Missouri Crop Performance

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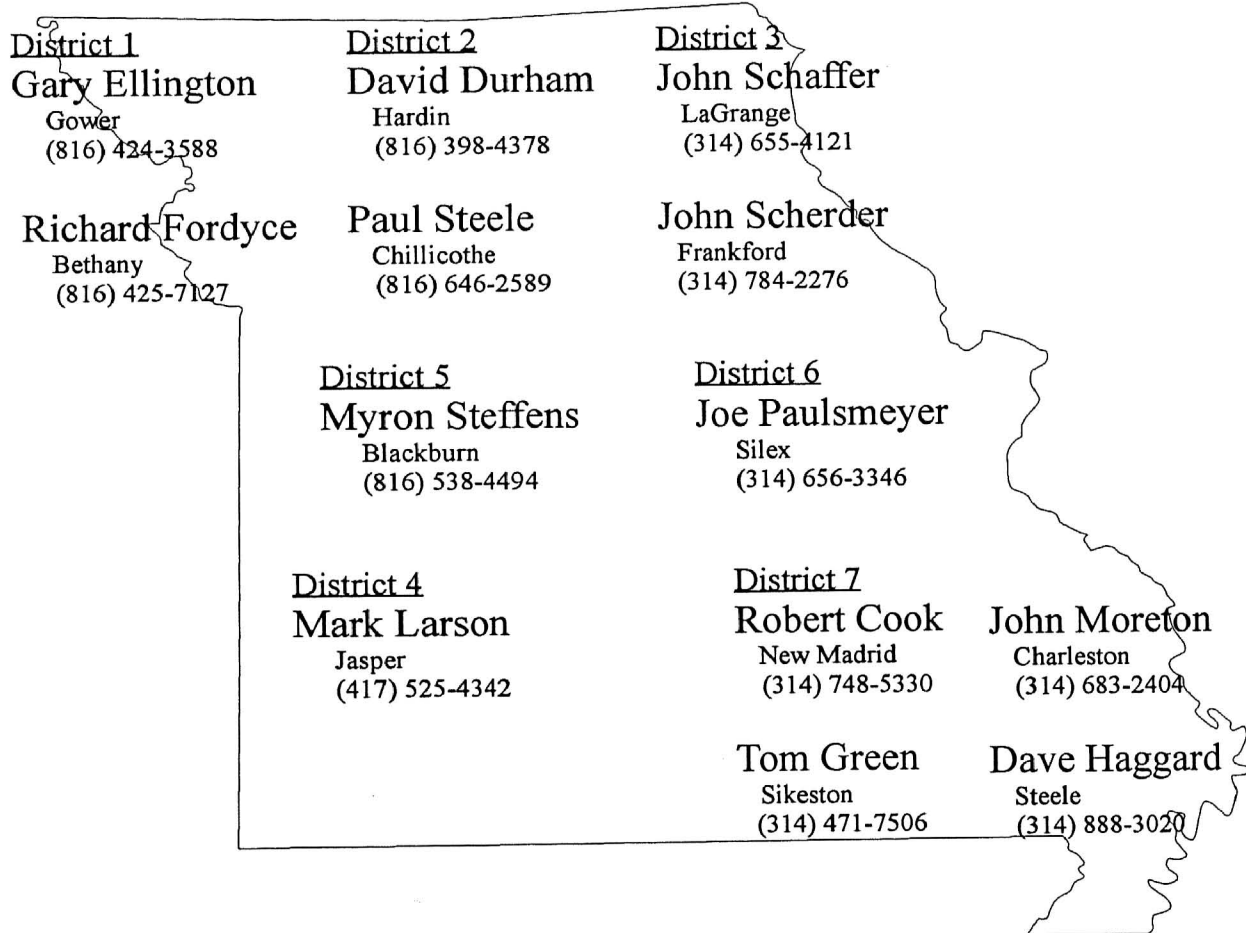
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in cooperation with
Missouri Soybean Merchandising Council



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MISSOURI CROP PERFORMANCE

1994

SOYBEAN

This report is a contribution of the Department of Agronomy, University of Missouri Agricultural Experiment Station. The work was supported in part by fees from companies and organizations submitting varieties for evaluation. Soybeans were first included in the University of Missouri's variety testing program in 1973. The number of entries in the program increased from 51 in 1973 to 382 in 1989. There were 369 varieties in the program in 1994.

The large number of varieties available makes selection of a superior variety difficult. To select intelligently, producers need a reliable, unbiased, up-to-date source of information that will permit valid comparisons among available varieties. The objective of the University of Missouri's performance testing program is to provide this information. The tests are conducted under as uniform conditions as possible. Small plots are used to reduce the chance of soil and climatic variations occurring between one variety plot and another. Results obtained should aid the individual grower to judge the relative merits of many of the commercial soybean varieties available in Missouri today.

COMPARING VARIETIES

The performance of a variety cannot be measured with absolute precision. Uncontrollable variability is involved in the determination of each yield average. This variability sometimes occurs because the soil is not uniform, but many other conditions may contribute to it. Because variability exists in all field experimentation, statistics are used as a tool to assist in making decisions. The statistical tool used in these trials is the test of least significant difference (LSD). The LSD is quite simple to apply. When two entries are compared and the difference between them is greater than the LSD, the entries are judged to be significantly different. Differences smaller than the LSD may have occurred by chance and are judged to be not significant.

Variety performance may seem inconsistent from location to location and from year to year because of differences in rainfall, temperature, soil fertility, diseases, insects, and other factors. To obtain an improved estimate of relative variety performance, readers should consider results from more than one location or year. In this publication, the authors have tried to facilitate comparisons across years and locations.

In each trial, the "top yielding" varieties in each maturity group have been identified. These varieties are those that did not yield significantly less than the highest yielding variety in the same maturity group. They are denoted in the tables by an asterisk (*) next to their yields. Thus, by going down a column, readers can readily identify the highest yielding varieties. By going across the page, readers can evaluate the relative performance of a variety during several years or at several locations. From the standpoint of yield, the most desirable varieties will be those which rank among the "top yielding" varieties (that is, have an asterisk) the greatest number of times.

Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a soybean variety. Standability, maturity and disease resistance are among the characteristics that deserve careful consideration. Several diseases prevalent in Missouri can be devastating to susceptible varieties. Lodging may reduce yields and slow harvest. Poor seed quality is often associated with varieties which mature while temperatures are still high. Late maturing varieties are occasionally killed by frost. Selection of varieties from several maturity groups can be helpful in spreading harvest

dates. Therefore, information presented on disease reaction, lodging, and maturity should also be considered when selecting a variety.

The Missouri Agricultural Experiment Station does not recommend specific varieties. Farmers growing a new variety for the first time should consider all the information contained in this report and then grow a small acreage to determine adaptability. This should be the practice for all new varieties regardless of origin.

EXPERIMENTAL PROCEDURES

Entries. Three types of tests were conducted. "Standard" full-season tests evaluated experimental lines and released varieties, brands, and blends currently marketed in Missouri. "Double crop" tests evaluated the same range of materials when planted after harvest of wheat. The "Cyst Nematode" tests evaluated experimental lines and released varieties, brands, and blends on sites heavily infested with cyst nematodes. All producers of soybean seed were eligible to submit entries for evaluation in 1994. Participation was voluntary, and no control was exercised by the program over which, or how many, varieties were entered. However, to help finance the evaluation program, a fee of \$90 per location was charged for each entry.

Plot Management. All tests were planted with commercial equipment modified for small plot work. Fertilizer was applied at each site at the discretion of the farmer or the station manager. Herbicides, cultivation, and hand weeding, if necessary, were used for weed control. All plots were end trimmed prior to harvest. Management details varied from location to location and are listed on individual tables.

Data Recorded. Maturity group classification was provided by the entry sponsor. Maturity data were recorded when approximately 75 percent of the pods had turned color. Maturity group check varieties were; 3.0 Jack, 4.0 Fayette, 5.0 Hill, and 6.0 Bedford. Lodging and height were determined immediately before harvest. A scale of 1 to 5 was used to score lodging. Interpretation of the scale is as follows:

- 1 = all plants erect;
- 2 = all plants leaning slightly or a few plants down;
- 3 = all plants leaning moderately or 20 to 50% down;
- 4 = all plants leaning considerably or 50 to 80% down;
- 5 = all plants down.

For each entry and location, data on maturity, plant height, lodging and yield are given. Yield was measured in bushels (60 pounds) per acre at a moisture content of 13.0 percent. An electronic moisture tester was used for all moisture readings.

Cyst Nematode Screening. Soil naturally infested with soybean cyst nematodes (SCN) was collected from several Missouri locations. The screening isolates used in testing were Race 1, Race 3, and Race 14. All entries submitted to the program as SCN resistant were tested for reaction in these soils.

Electronic Accessibility of Data. Results of the Missouri Crop Performance Trials are now available in two forms: the printed Special Report and Missouri's Agricultural Electronic Bulletin Board. Variety test information is accessible from the MAIN MENU under "CROP PERFORMANCE TESTING" of the AgEBB. The system number for the AgEBB is 314/882-8289. If you need assistance call 314/882-4827 for help from the system staff.

PART I
STANDARD SOYBEAN TRIALS

EXPERIMENTAL PROCEDURES

Field Plot Design. A lattice design with three replications was used. Individual plots were four rows wide and 20 feet long. The center two rows of each plot were harvested to determine yield.

Locations. On the basis of geographical characteristics, the state was divided into regions. Soybean variety evaluation trials were located in the norther, central, southwestern and south-eastern regions of the state. Trial locations are shown on adjacent map. In 1994, the locations for these trials were on (1) the Bill and Gary Meyer farm near Barnard in Nodaway Co.; (2) the Greenley Memorial Center near Novelty in Knox Co.; (3) the Frank Swisher farm near Marshall in Saline Co.; (4) the John Cobb farm near High Hill in Montgomery Co.; (5) the Bill Cook farm near Garden City in Cass Co.; (6) the Wally Norton farm near Lamar in Barton Co.; (7) the Glenn Nothdurft farm near Oran in Scott Co.; and (8) the Delta Research Center near Portageville in Pemiscott Co.



SUMMARY OF RESULTS

Soybean varieties and blends were evaluated in nine standard studies in 1994. Data from these tests are presented in Tables 2 through 14. Management practices applied at each location are given on the individual tables.

Average yields and ranges observed at each location are summarized below in Table 1. The ranges give the values for the lowest and highest yielding entries in each test. They provide an indication of the wide variation in yield potential among soybean varieties available on the market in Missouri. The use of data presented in the individual location tables of this Special Report should increase the probability of selecting varieties that combine high yield potential with other agronomic characteristics appropriate to specific farming situations.

TABLE 1. YIELD SUMMARY FOR STANDARD SOYBEAN TESTS

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Barnard	165	44-67	58	2
Novelty	165	37-62	52	3
Marshall	128	40-71	55	5
High Hill	128	22-41	30	6
Garden City	95	39-57	49	8
Lamar	95	37-57	46	9
Oran	87	28-65	46	11
Portageville Loam	87	28-59	46	12
Portageville Clay	87	37-60	48	13

TABLE 2. Performance of Soybean Varieties evaluated near Barnard (Nodaway County) on the Bill and Gary Meyer Farm during 1992-94.

Planted: 11 May 1994
 Harvested: 11 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Nodaway Silt Loam
 Soil Test: pH=6.2, OM=3.0%, P=58, K=361

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Lasso + Lorox + Lexone
 Post: Basagran + Poast
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 170 Eggs / 250cc of Soil
 Growing Season Rainfall: May=1.4, June=8.6, July=5.5, Aug.=1.4, Sept.=2.0, TOTAL=18.9 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 2							
COMMERCIAL VARIETIES								
Jack	--	45.5	4.2	53.7*	--	--	--	--
Reeds Brand 222	--	37.2	4.1	53.5*	29.3*	47.5	41.4	43.4
MFA Morsoy 9329	--	40.0	3.5	53.3*	--	--	--	--
Dyna-Gro 3290	--	40.5	3.3	49.0	29.2*	47.5	39.1	41.9
EXPERIMENTAL VARIETIES								
Terra E294	--	41.0	3.5	55.8**	--	--	--	--
AVERAGE	--	40.8	3.7	53.1	29.8	50.8	41.4	44.6
L.S.D. AT .05		3.2	0.5	3.6	5.8	3.5	5.8	3.5
C.V. %		6.4		5.6	15.8	5.7		
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
Merschman Kennedy IV	--	43.2	2.7	67.4**	41.4	61.4*	54.4	56.7
Prairie Brand PB-384	--	40.0	2.3	67.1*	--	--	--	--
Fontanelle 6104	--	42.1	1.3	66.6*	--	--	--	--
MFA Morsoy 9137	--	42.7	2.2	66.5*	39.7	61.1*	53.1	55.8
Ohlde 3580	--	43.7	1.7	66.0*	39.9	--	53.0	--
Merschman Fillmore IV	--	39.7	1.8	65.9*	--	--	--	--
Kruger K3737+	--	38.8	2.2	65.8*	--	--	--	--
Kruger K3727	--	39.2	2.0	65.7*	--	--	--	--
Desoy 3333+	--	43.0	1.7	65.2*	--	--	--	--
Lynks 5373	--	42.4	2.7	65.2*	37.5	--	51.4	--
Dyna-Gro 3303	--	39.7	2.7	65.2*	--	--	--	--
Ciba Seeds 3362	--	42.0	2.7	65.1*	46.3*	60.6*	55.7	57.3
Merschman Eisenhower III	--	44.6	1.8	64.1*	42.1	--	53.1	--
Hyperformer HY 351	--	46.2	1.3	63.8*	--	--	--	--
Desoy 3434+	--	42.4	1.8	63.3*	--	--	--	--
Kruger K3808	--	44.1	2.2	63.3*	47.8*	62.3*	55.6	57.8
McAllister Ruler	--	43.6	2.7	63.2*	45.9*	56.1	54.6	55.1
Stine 3490	--	45.1	1.8	63.2*	--	--	--	--
M/W Genetics G 3550	--	42.3	1.7	63.1*	42.3	62.5*	52.7	56.0
Desoy 3434A	--	44.8	1.5	63.1*	--	--	--	--
Kruger K3939	--	45.3	2.5	63.1*	48.0*	58.1*	55.6	56.4
M/W Genetics G 3880	--	47.3	1.8	62.7*	--	--	--	--
Stine 3660	--	39.6	1.5	62.7*	--	--	--	--
Mycogen AG439	--	43.2	1.8	62.7*	38.5	--	50.6	--
Desoy 3606	--	42.6	1.8	62.6*	--	--	--	--
Terra Torch	--	42.4	2.7	62.6*	38.2	58.6*	50.4	53.1
Kruger K3909	--	46.2	2.5	62.6*	47.7*	--	55.2	--
Dairyland DSR-317	--	43.0	3.3	62.5*	41.4	51.3	52.0	51.7
Willcross 92-A	--	43.7	1.7	62.5*	45.4	52.9	54.0	53.6
NeCo 7392	--	45.0	1.7	62.5*	44.6	53.1	53.6	53.4
ICI D371	--	41.4	2.2	62.5*	46.8*	61.6*	54.7	57.0
Kruger K3838	--	47.0	2.3	62.4*	49.6*	55.1	56.0	55.7
Desoy 3949	--	45.1	2.3	62.2*	--	--	--	--
Ohlde 3900	--	47.0	1.7	62.2*	49.8*	--	56.0	--
NeCo 7384	--	40.8	2.7	62.2*	--	--	--	--
Golden Harvest H-1388	--	44.1	2.7	62.0*	41.7	--	51.9	--
NC+ 3A75	--	47.1	2.2	61.9*	46.4*	--	54.2	--
Northrup King S35-35	--	40.0	1.7	61.9*	44.8	56.6	53.4	54.4
Pioneer Variety 9362	--	41.4	1.3	61.7*	39.1	--	50.4	--
Desoy 3909+	--	43.8	2.5	61.6*	--	--	--	--
ICI D321	--	40.3	2.3	61.5*	--	--	--	--
Desoy 303E	--	38.9	2.5	61.5*	42.7	63.4**	52.1	55.9

TABLE 2. Continued

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
Patriot 355	--	44.2	2.2	61.4*	--	--	--	--
Pioneer Variety 9393	--	42.5	2.0	61.3*	39.7	--	50.5	--
Wilson 3250	--	41.5	1.8	61.2*	40.1	57.9*	50.7	53.1
Fontanelle 5999	--	43.6	2.3	61.2*	35.5	54.7	48.4	50.5
Morning Sun MSS 3300	--	46.1	2.5	61.1*	38.1	48.7	49.6	49.3
Patriot 395	--	44.2	1.2	60.9*	--	--	--	--
Kruger K3769+	--	41.0	2.0	60.9*	43.6	60.8*	52.3	55.1
Kruger K3636+	--	39.3	1.3	60.7	41.8	--	51.3	--
Golden Harvest H-1328	--	39.6	1.3	60.7	41.7	--	51.2	--
Patriot 350	--	44.6	1.3	60.6	--	--	--	--
Asgrow A3431	--	41.1	1.8	60.4	38.8	51.8	49.6	50.3
Kruger K3999	--	40.8	1.7	60.4	--	--	--	--
AgriPro AP 3727	--	41.9	1.7	60.3	37.8	--	49.1	--
Golden Harvest H-1353	--	41.0	1.8	60.3	44.5	59.8*	52.4	54.9
Shissler GR8 397	--	45.1	2.3	60.1	46.0*	50.5	53.1	52.2
Reeds Brand 390	--	42.1	2.3	60.0	45.0	53.9	52.5	53.0
Fontanelle 6100	--	42.4	2.8	59.8	45.6	51.8	52.7	52.4
Terra TS312	--	39.8	1.8	59.6	41.0	60.5*	50.3	53.7
Reeds Brand 333	--	38.5	1.5	59.6	44.7	48.3	52.2	50.9
Shissler GR8 327	--	37.8	2.3	59.6	--	--	--	--
Willcross 9435-B	--	38.8	1.3	59.5	--	--	--	--
MFA Morsoy 9233	--	41.2	1.2	59.4	39.8	54.5	49.6	51.2
Fontanelle 5621	--	43.4	2.8	59.4	43.2	51.9	51.3	51.5
Pioneer Variety 9381	--	40.9	1.7	59.4	39.4	57.8*	49.4	52.2
Asgrow A3237	--	41.2	1.3	59.2	40.0	--	49.6	--
Merschman Truman IV	--	39.2	2.0	59.2	--	--	--	--
Piatt	--	46.6	2.0	59.2	37.9	--	48.6	--
Pioneer Variety 9392	--	43.6	1.2	59.1	41.2	54.6	50.2	51.6
Fontanelle 5304	--	41.4	2.8	59.0	--	--	--	--
Desoy 3777	--	40.2	2.0	58.9	52.7**	--	55.8	--
Stine 3630	--	42.5	2.5	58.8	--	--	--	--
Asgrow A3313	--	40.6	1.8	58.8	--	--	--	--
Morning Sun MSS 3893	--	40.7	1.7	58.8	33.3	59.3*	46.1	50.5
Lewis 370	--	42.1	2.2	58.5	47.0*	--	52.8	--
Hyperformer HSC 317	--	41.5	1.5	58.4	40.7	55.3	49.6	51.5
Pioneer Variety 9342	--	39.9	1.3	58.4	--	--	--	--
Dairyland DSR-305	--	39.1	2.7	58.3	46.7*	--	52.5	--
Willcross 9435-A	--	39.9	1.8	58.3	--	--	--	--
Lewis 362	--	42.3	1.8	58.3	--	--	--	--
Dyna-Gro 3368	--	40.3	2.7	58.2	--	--	--	--
MFA Morsoy 9335SCN	--	43.1	2.0	58.1	--	--	--	--
ICI D396	--	44.9	2.2	58.1	--	--	--	--
Charleston	--	31.9	1.2	58.0	39.5	53.8	48.8	50.4
Vigoro V363	--	40.0	2.0	58.0	39.3	--	48.7	--
NeCo 7354	--	37.3	1.8	57.8	--	--	--	--
Corsica	--	42.8	2.0	57.8	38.8	54.7	48.3	50.4
Golden Harvest H-1358	--	41.8	1.8	57.4	38.4	--	47.9	--
AgriPro AP 3799	--	40.7	1.7	57.4	--	--	--	--
Flyer	--	40.8	2.3	57.4	39.7	56.6	48.6	51.2
Ohlde 3570	--	40.8	1.8	57.1	36.8	--	47.0	--
Morning Sun MSS 3690	--	42.4	2.8	57.1	35.1	54.8	46.1	49.0
Willcross 92-B	--	41.0	2.3	57.0	46.3*	53.6	51.7	52.3
Dekalb CX377	--	44.4	1.7	56.9	--	--	--	--
Lewis 367	--	41.9	2.5	56.8	45.0	52.8	50.9	51.5
Hyperformer HSC 398	--	41.5	2.0	56.8	42.8	53.8	49.8	51.1
Resnik	--	41.7	1.7	56.5	39.6	50.3	48.1	48.8
AgriPro AP 3990	--	42.0	2.3	56.4	43.7	57.3	50.1	52.5
Ohlde 3650	--	41.8	1.7	56.2	39.4	--	47.8	--
Lewis 388	--	44.4	1.7	56.0	42.3	54.3	49.2	50.9
Merschman Roosevelt	--	40.6	1.8	55.7	44.7	54.9	50.2	51.8
Asgrow A3510	--	41.3	1.7	55.7	41.8	--	48.8	--
Hyperformer HSC 373	--	43.9	1.8	55.0	--	--	--	--
Patriot 345	--	40.9	1.8	54.8	--	--	--	--
Lynks 5380	--	42.0	1.5	54.5	--	--	--	--
Shissler GR8 383	--	42.0	2.2	54.4	--	--	--	--
MFA Morsoy 8838	--	45.6	1.5	54.3	39.9	55.1	47.1	49.8
Desoy 3535	--	38.4	1.8	53.9	--	--	--	--
Northrup King S39-11	--	42.4	2.3	53.8	43.9	--	48.8	--
NeCo 7400	--	41.2	2.2	53.4	--	--	--	--
Ohio FG2	--	38.5	3.0	52.2	--	--	--	--

TABLE 2. Continued

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
Hamilton	--	41.4	3.2	51.6	42.0	52.1	46.8	48.6
Williams 82	--	44.4	2.7	48.0	37.9	53.7	43.0	46.5
EXPERIMENTAL VARIETIES								
Kruger K3525	--	39.9	2.0	64.1*	--	--	--	--
C1832	--	43.1	2.3	63.9*	--	--	--	--
Dairyland DST3206	--	41.3	1.8	60.4	--	--	--	--
Kruger K3900	--	43.3	2.8	58.6	--	--	--	--
McAllister Ex 399	--	45.0	2.3	57.4	--	--	--	--
AVERAGE	--	42.1	2.0	60.0	41.2	54.3	50.6	51.9
L.S.D. AT .05		5.2	1.0	6.6	6.8	6.0		
C.V. %		7.6		6.8	10.0	6.8		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
Hyperformer HY 458	--	45.0	2.1	61.4**	--	--	--	--
Wilson 4010	--	43.7	1.5	60.4*	24.8	51.6	42.6	45.6
Merschman Norfolk	--	43.7	2.2	59.8*	37.2	52.6	48.5	49.9
Dekalb CX411	--	41.0	1.0	59.5*	30.8	--	45.2	--
Merschman Atlanta III	--	44.3	3.6	59.5*	30.0	--	44.8	--
Kruger K4101+	--	41.0	1.7	58.3*	--	--	--	--
Northrup King S42-60	--	38.7	2.0	57.3*	--	--	--	--
Asgrow 4138	--	45.3	2.7	56.6*	--	--	--	--
AgriPro AP 4100	--	42.0	1.9	56.5*	34.2	--	45.4	--
Desoy 4141	--	47.3	2.3	56.3*	36.2	--	46.3	--
NC+ 4A10	--	39.3	1.4	55.7*	38.6	--	47.2	--
Hyperformer HY 446	--	47.3	1.5	55.4*	--	--	--	--
Stressland	--	44.3	3.0	55.1*	--	--	--	--
Prairie Brand PB-414	--	45.0	2.5	54.9*	--	--	--	--
Ciba Seeds 3474	--	47.0	3.2	54.7	--	--	--	--
Vigoro V443	--	50.0	2.3	54.5	--	--	--	--
Terra TS402	--	41.7	1.4	54.2	29.8	52.0	42.0	45.3
Ohlde 4040	--	43.0	2.0	53.8	25.2	53.4*	39.5	44.1
Merschman Richmond II	--	44.7	3.8	53.8	--	--	--	--
Dyna-Gro 3400	--	43.3	2.8	53.6	--	--	--	--
Golden Harvest H-1407	--	43.3	2.3	53.4	26.4	52.8*	39.9	44.2
Merschman Dallas	--	56.3	3.0	53.4	24.2	36.8	38.8	38.1
Merschman Houston III	--	51.3	2.5	53.2	--	--	--	--
Merschman Norfolk II	--	42.0	1.0	52.8	26.5	--	39.7	--
Dekalb CX404	--	42.0	1.7	52.7	31.5	51.1	42.1	45.1
MFA Morsoy 9241	--	41.0	1.1	52.5	--	--	--	--
Merschman Cleveland III	--	52.7	1.5	52.4	--	--	--	--
ICI D427	--	41.7	1.0	52.4	--	--	--	--
Desoy 4101	--	41.7	1.7	52.3	25.9	60.2**	39.1	46.1
Calhoun	--	26.0	1.0	51.6	--	--	--	--
Stine 4340	--	49.0	3.7	51.5	32.5	--	42.0	--
Reeds Brand 445	--	49.3	3.2	51.2	30.7	--	41.0	--
ICI D414	--	46.3	2.0	51.2	--	--	--	--
MFA Morsoy 8842	--	42.7	3.0	50.9	44.7**	54.6*	47.8	50.1
Lewis 409	--	42.3	1.6	50.0	37.6	54.1*	43.8	47.2
Merschman Austin II	--	53.0	2.6	48.9	33.5	--	41.2	--
Merschman Dallas II	--	33.0	2.4	43.7	26.5	--	35.1	--
EXPERIMENTAL VARIETIES								
NMSB X4307	--	40.7	3.5	58.4*	--	--	--	--
K1207	--	43.0	2.7	57.1*	--	--	--	--
McAllister Ex 404	--	46.7	1.8	54.1	--	--	--	--
Desoy 4242A	--	49.0	2.4	53.1	--	--	--	--
AVERAGE	--	44.2	2.2	54.3	30.7	52.2	42.5	45.7
L.S.D. AT .05		4.6	1.0	6.6	NS	6.5		
C.V. %		6.3		7.5	18.1	7.6		
TRIAL AVERAGE								
		42.6	2.1	58.4	38.9	53.8	48.6	50.4

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

NS Not significant at the .05 level.

TABLE 3. Performance of Soybean Varieties evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1992-94.

Planted: 16 May 1994
 Harvested: 3 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.7, OM=2.7%, P=58, K=383

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual + Scepter
 Post: Poast Plus
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 1080 Eggs / 250cc of Soil
 Growing Season Rainfall: May=1.5, June=2.3, July=2.3, Aug.=5.6, Sept.=3.0, TOTAL=14.7 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 2							
COMMERCIAL VARIETIES								
2.0 Maturity Group Check##	9-02							
Jack	9-09	40.8	2.1	51.7**	--	--	--	--
Reeds Brand 222	9-03	32.3	1.0	50.1*	37.7**	55.0	43.9	47.6
Dyna-Gro 3290	9-03	30.5	1.0	46.5	29.7	51.7	38.1	42.6
MFA Morsoy 9329	9-03	31.7	1.0	42.9	--	--	--	--
EXPERIMENTAL VARIETIES								
Terra E294	9-03	31.8	1.0	43.8	--	--	--	--
AVERAGE	9-04	33.4	1.2	47.0	33.6	53.6	40.3	44.7
L.S.D. AT .05	2	2.0	0.1	3.5	6.0	NS		
C.V. %	1	5.0		6.2	14.5	7.4		
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-10							
Desoy 3606	9-12	33.3	1.2	61.7**	--	--	--	--
Hamilton	9-15	32.0	1.2	59.8*	40.1	59.2	50.0	53.0
Fontanelle 6104	9-20	34.3	1.0	59.5*	--	--	--	--
Asgrow A3431	9-13	31.0	1.2	59.1*	42.7*	57.5	50.9	53.1
Mycogen AG439	9-16	37.3	1.0	58.2*	40.2	--	49.2	--
Willcross 9435-B	9-14	31.3	1.0	58.2*	--	--	--	--
Pioneer Variety 9362	9-14	32.0	1.0	57.9*	36.6	--	47.3	--
Merschman Eisenhower III	9-16	34.7	1.0	57.5*	43.6*	--	50.6	--
Pioneer Variety 9393	9-15	32.0	1.0	57.2*	46.0*	--	51.6	--
Desoy 3333+	9-12	34.7	1.0	56.7*	--	--	--	--
NeCo 7400	9-20	34.0	1.3	56.0*	--	--	--	--
Asgrow A3510	9-14	31.0	1.0	56.0*	39.9	--	48.0	--
Pioneer Variety 9381	9-14	29.3	1.0	55.8*	37.2	65.7*	46.5	52.9
Reeds Brand 390	9-14	32.7	1.0	55.5*	42.7*	56.5	49.1	51.6
M/W Genetics G 3880	9-16	36.0	1.2	55.5*	--	--	--	--
Patriot 395	9-18	33.0	1.0	55.4*	--	--	--	--
Morning Sun MSS 3893	9-13	32.3	1.0	55.4*	38.3	60.9*	46.8	51.5
Ciba Seeds 3362	9-13	31.7	1.2	55.3*	39.0	66.8*	47.2	53.7
AgriPro AP 3799	9-13	32.7	1.0	55.3*	--	--	--	--
Kruger K3808	9-16	36.3	1.3	55.0*	46.0*	65.1*	50.5	55.4
Lewis 362	9-13	33.0	1.0	55.0*	--	--	--	--
Patriot 345	9-14	30.7	1.0	54.9*	--	--	--	--
Kruger K3737+	9-17	29.0	1.0	54.8*	--	--	--	--
Dyna-Gro 3368	9-13	34.3	1.2	54.5*	--	--	--	--
MFA Morsoy 8838	9-14	34.3	1.3	54.5*	41.4	59.4	48.0	51.8
Flyer	9-16	35.7	1.2	54.3	38.1	55.8	46.2	49.4
Ohlde 3900	9-13	33.3	1.0	54.2	41.5	--	47.9	--
Reeds Brand 333	9-14	32.7	1.0	54.2	39.0	54.4	46.6	49.2
Kruger K3909	9-15	33.7	1.0	54.1	42.6*	--	48.4	--
Stine 3630	9-13	31.7	1.0	54.0	--	--	--	--
NeCo 7354	9-13	32.7	1.0	53.9	--	--	--	--
Shissler GR8 383	9-13	32.3	1.2	53.7	--	--	--	--
Kruger K3727	9-11	32.7	1.0	53.7	--	--	--	--
Kruger K3939	9-13	33.0	1.2	53.6	43.4*	60.2	48.5	52.4
Kruger K3838	9-13	35.0	1.0	53.5	45.1*	66.2*	49.3	54.9
Morning Sun MSS 3300	9-12	31.0	1.0	53.4	35.5	58.8	44.5	49.2
McAllister Ruler	9-13	31.7	1.0	53.4	43.9*	64.2*	48.7	53.8
Lynks 5373	9-14	31.7	1.0	53.3	46.3*	--	49.8	--
Prairie Brand PB-384	9-17	28.3	1.2	53.3	--	--	--	--
Patriot 355	9-13	34.3	1.0	53.3	--	--	--	--
Hyperformer HSC 398	9-14	33.0	1.2	53.3	41.8*	62.5*	47.6	52.5
Northrup King S39-11	9-17	36.3	1.3	53.3	38.7	--	46.0	--

TABLE 3. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
NeCo 7384	9-13	32.0	1.2	53.1	--	--	--	--
Willcross 92-A	9-15	32.7	1.0	53.0	38.3	63.6*	45.7	51.6
Patriot 350	9-14	34.0	1.2	52.9	--	--	--	--
Lewis 367	9-14	34.7	1.0	52.9	43.1*	58.8	48.0	51.6
Shissler GR8 397	9-14	31.0	1.0	52.8	42.8*	59.5	47.8	51.7
Piatt	9-14	33.7	1.0	52.6	45.0*	--	48.8	--
Stine 3490	9-15	31.3	1.2	52.6	--	--	--	--
Pioneer Variety 9392	9-14	35.3	1.0	52.6	43.3*	65.0*	48.0	53.6
Ohio FG2	9-10	32.0	1.3	52.6	--	--	--	--
Fontanelle 5999	9-13	32.7	1.2	52.5	39.3	60.5	45.9	50.8
ICI D396	9-15	33.7	1.0	52.3	--	--	--	--
Kruger K3999	9-15	33.7	1.2	52.3	--	--	--	--
Desoy 3777	9-12	33.7	1.3	52.3	49.3**	--	50.8	--
Desoy 3434+	9-13	34.3	1.0	52.2	--	--	--	--
Corsica	9-14	34.0	1.2	52.1	41.4	61.5*	46.8	51.7
AgriPro AP 3727	9-13	32.0	1.0	52.0	42.4*	--	47.2	--
Golden Harvest H-1328	9-13	26.7	1.0	52.0	41.6	--	46.8	--
Williams 82	9-14	35.0	1.3	51.9	43.5*	58.8	47.7	51.4
NC+ 3A75	9-13	31.3	1.0	51.9	44.6*	--	48.3	--
Desoy 3909+	9-13	33.7	1.0	51.9	--	--	--	--
Desoy 3949	9-14	36.3	1.2	51.7	--	--	--	--
Dekalb CX377	9-13	35.0	1.2	51.6	--	--	--	--
Northrup King S35-35	9-13	28.3	1.2	51.6	43.6*	59.1	47.6	51.4
NeCo 7392	9-14	34.0	1.2	51.5	38.7	62.7*	45.1	51.0
Stine 3660	9-15	29.0	1.0	51.4	--	--	--	--
ICI D371	9-14	32.3	1.0	51.3	43.3*	63.7*	47.3	52.8
Dairyland DSR-317	9-13	36.3	1.0	51.3	43.6*	65.1*	47.5	53.3
AgriPro AP 3990	9-13	32.3	1.0	51.1	40.3	58.6	45.7	50.0
Fontanelle 6100	9-13	32.0	1.0	51.0	40.3	58.7	45.7	50.0
Vigoro V363	9-14	33.0	1.0	51.0	42.1*	--	46.6	--
Asgrow A3313	9-14	30.3	1.0	50.7	--	--	--	--
MFA Morsoy 9233	9-13	28.3	1.0	50.7	36.5	59.6	43.6	48.9
Asgrow A3237	9-14	29.0	1.0	50.6	42.6*	--	46.6	--
Merschman Fillmore IV	9-14	29.7	1.0	50.5	--	--	--	--
Hyperformer HY 351	9-14	33.7	1.0	50.4	--	--	--	--
Desoy 3535	9-12	30.0	1.0	50.1	--	--	--	--
Desoy 3434A	9-13	31.7	1.0	50.0	--	--	--	--
Golden Harvest H-1388	9-15	33.0	1.3	49.8	39.3	--	44.6	--
Golden Harvest H-1358	9-13	31.7	1.0	49.8	42.9*	--	46.3	--
Ohlde 3570	9-14	33.0	1.0	49.7	46.6*	--	48.2	--
Fontanelle 5621	9-13	36.7	1.2	49.7	41.1	61.8*	45.4	50.9
Morning Sun MSS 3690	9-12	36.0	1.2	49.5	41.4	58.7	45.5	49.9
Merschman Truman IV	9-13	30.3	1.0	49.1	--	--	--	--
Pioneer Variety 9342	9-12	28.7	1.0	49.0	--	--	--	--
Dairyland DSR-305	9-10	28.7	1.0	49.0	37.6	--	43.3	--
MFA Morsoy 9335SSCN	9-14	32.0	1.0	49.0	--	--	--	--
Golden Harvest H-1353	9-14	32.0	1.0	48.9	41.5	67.4**	45.2	52.6
MFA Morsoy 9137	9-14	33.7	1.0	48.8	41.2	61.7*	45.0	50.6
Lewis 370	9-14	31.0	1.0	48.8	39.7	--	44.3	--
Merschman Kennedy IV	9-13	31.3	1.0	48.8	42.7*	60.7	45.8	50.7
Lewis 388	9-14	31.3	1.0	48.2	37.6	62.3*	42.9	49.4
Merschman Roosevelt	9-14	30.3	1.0	48.2	36.9	54.3	42.6	46.5
Willcross 9435-A	9-14	30.0	1.0	48.1	--	--	--	--
Terra Torch	9-13	35.0	1.0	48.1	41.2	58.3	44.7	49.2
Desoy 303E	9-09	30.7	1.0	47.9	43.2*	59.3	45.6	50.1
Terra TS312	9-04	29.7	1.0	47.7	36.3	57.7	42.0	47.2
Ohlde 3580	9-13	31.0	1.0	47.5	42.2*	--	44.9	--
Resnik	9-13	32.3	1.0	47.5	36.7	56.3	42.1	46.8
Willcross 92-B	9-16	32.3	1.0	46.3	44.3*	60.1	45.3	50.2
Ohlde 3650	9-14	33.3	1.0	45.9	44.4*	--	45.2	--
Lynks 5380	9-14	32.0	1.0	45.8	--	--	--	--
Hyperformer HSC 373	9-14	31.7	1.0	45.7	--	--	--	--
Kruger K3769+	9-13	30.3	1.2	45.2	43.0*	63.7*	44.1	50.6
Charleston	9-13	20.3	1.0	45.0	41.2	55.8	43.1	47.3
M/W Genetics G 3550	9-14	32.3	1.0	44.6	41.2	59.7	42.9	48.5
Fontanelle 5304	9-10	29.7	1.0	44.3	--	--	--	--
Hyperformer HSC 317	9-11	29.3	1.0	44.3	42.3*	64.0*	43.3	50.2
ICI D321	9-08	29.3	1.0	43.9	--	--	--	--
Shissler GR8 327	9-09	31.3	1.0	42.0	--	--	--	--
Dyna-Gro 3303	9-10	27.0	1.0	38.4	--	--	--	--

TABLE 3. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	Kruger K3636+	9-12	30.3	1.0	38.2	41.3	--	39.8
Wilson 3250	9-12	28.0	1.0	36.9	40.4	64.6*	38.7	47.3
EXPERIMENTAL VARIETIES								
Kruger K3525	9-14	31.0	1.2	60.9*	--	--	--	--
C1832	9-14	30.7	1.0	55.3*	--	--	--	--
Dairyland DST3206	9-13	31.7	1.0	54.3	--	--	--	--
Kruger K3900	9-13	35.7	1.2	54.1	--	--	--	--
McAllister Ex 399	9-16	34.0	1.0	52.5	--	--	--	--
AVERAGE	9-14	32.2	1.1	51.7	40.9	59.5	46.3	50.7
L.S.D. AT .05	2	4.2	0.3	7.2	7.5	6.6		
C.V. %	1	8.0		8.6	11.3	6.9		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##								
	9-14							
Reeds Brand 445	9-26	38.3	1.7	61.1**	47.8**	--	54.5	--
Stine 4340	9-24	38.0	1.3	58.2*	43.1	--	50.7	--
Golden Harvest H-1407	9-15	36.0	1.2	58.0*	43.7	60.5*	50.9	54.1
Merschman Atlanta III	9-23	39.3	1.3	58.0*	41.2	--	49.6	--
Northrup King S42-60	9-20	37.0	1.2	57.5*	--	--	--	--
Calhoun	9-26	26.7	1.0	56.6*	--	--	--	--
Desoy 4141	9-19	38.7	1.3	56.1*	40.7	--	48.4	--
Dekalb CX411	9-17	32.7	1.2	55.4*	41.8	--	48.6	--
Vigoro V443	9-22	38.7	1.0	55.4*	--	--	--	--
Merschman Austin II	9-22	43.0	1.7	55.3*	40.3	--	47.8	--
Hyperformer HY 458	9-24	37.7	1.0	55.1*	--	--	--	--
Merschman Norfolk II	9-20	34.3	1.2	55.0*	42.6	--	48.8	--
Merschman Dallas II	10-01	30.3	1.0	54.9*	42.1	--	48.5	--
Merschman Houston III	9-24	41.3	1.3	54.5	--	--	--	--
Dyna-Gro 3400	9-16	33.3	1.2	54.4	--	--	--	--
Merschman Dallas	10-01	48.7	2.3	54.3	45.1	55.7	49.7	51.7
ICI D427	9-18	31.0	1.0	54.1	--	--	--	--
NC+ 4A10	9-16	33.0	1.0	53.9	44.8	--	49.3	--
Merschman Richmond II	9-16	40.3	1.7	53.8	--	--	--	--
Ohlde 4040	9-15	32.0	1.0	53.3	39.5	60.6*	46.4	51.1
Prairie Brand PB-414	9-19	34.0	1.0	53.1	--	--	--	--
Dekalb CX404	9-15	33.3	1.0	53.0	44.1	59.5*	48.6	52.2
Hyperformer HY 446	9-20	40.3	1.3	52.8	--	--	--	--
Merschman Norfolk	9-15	31.3	1.0	51.5	44.6	56.2	48.1	50.8
Wilson 4010	9-16	32.0	1.0	51.4	38.9	59.8*	45.2	50.0
MFA Morsoy 9241	9-18	35.0	1.0	51.3	--	--	--	--
Lewis 409	9-15	32.3	1.0	51.0	39.8	57.1	45.4	49.3
Stressland	9-20	36.3	1.3	50.7	--	--	--	--
MFA Morsoy 8842	9-19	37.0	1.2	50.0	35.9	57.9	43.0	47.9
AgriPro AP 4100	9-15	31.3	1.0	50.0	41.2	--	45.6	--
Terra TS402	9-16	30.0	1.0	49.6	44.1	57.4	46.9	50.4
Merschman Cleveland III	9-21	43.7	1.3	49.5	--	--	--	--
Ciba Seeds 3474	9-25	37.7	1.5	48.4	--	--	--	--
Desoy 4101	9-20	35.0	1.0	48.1	43.2	64.8**	45.7	52.0
Asgrow 4138	9-20	36.0	1.0	47.3	--	--	--	--
ICFD414	9-21	38.7	1.2	47.0	--	--	--	--
Kruger K4101+	9-19	33.0	1.2	46.3	--	--	--	--
EXPERIMENTAL VARIETIES								
McAllister Ex 404	9-19	35.7	1.0	57.7*	--	--	--	--
Desoy 4242A	9-18	37.3	1.2	57.7*	--	--	--	--
K1207	9-16	35.3	1.8	57.0*	--	--	--	--
NMSB X4307	9-19	35.7	1.7	56.7*	--	--	--	--
5.0 Maturity Group Check##								
	9-28							
AVERAGE	9-20	35.9	1.2	53.5	41.4	57.7	47.4	50.9
L.S.D. AT .05	3	5.5	0.4	6.4	NS	5.4		
C.V. %	1	9.3		7.4	9.8	5.8		
TRIAL AVERAGE								
		33.1	1.1	52.0	40.8	59.0	46.4	50.6

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group check as identified on page 4.

NS Not significant at the .05 level.

TABLE 4. Performance of Soybean Varieties evaluated at two Northern Missouri locations (Barnard and Novelty) during 1994.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Barnard	Novelty	Mean	Barnard	Novelty	Mean
COMMERCIAL VARIETIES						
MATURITY GROUP 2						
Jack	4.2	2.1	3.2	53.7*	51.7**	52.7**
Reeds Brand 222	4.1	1.0	2.6	53.5*	50.1*	51.8*
MFA Morsoy 9329	3.5	1.0	2.2	53.3*	42.9	48.1
Dyna-Gro 3290	3.3	1.0	2.2	49.0	46.5	47.8
EXPERIMENTAL VARIETIES						
Terra E294	3.5	1.0	2.2	55.8**	43.8	49.8
AVERAGE	3.7	1.2	2.5	53.1	47.0	50.0
L.S.D. AT .05	0.5	0.1	3.5	3.6	3.5	2.4
C.V. %				5.6	6.2	
COMMERCIAL VARIETIES						
MATURITY GROUP 3						
Fontanelle 6104	1.3	1.0	1.2	66.6*	59.5*	63.0**
Desoy 3606	1.8	1.2	1.5	62.6*	61.7**	62.2*
Desoy 3333+	1.7	1.0	1.4	65.2*	56.7*	61.0*
Merschman Eisenhower III	1.8	1.0	1.4	64.1*	57.5*	60.8*
Mycogen AG439	1.8	1.0	1.4	62.7*	58.2*	60.4*
Kruger K3737+	2.2	1.0	1.6	65.8*	54.8*	60.3*
Ciba Seeds 3362	2.7	1.2	2.0	65.1*	55.3*	60.2*
Prairie Brand PB-384	2.3	1.2	1.8	67.1*	53.3	60.2*
Pioneer Variety 9362	1.3	1.0	1.2	61.7*	57.9*	59.8*
Asgrow A3431	1.8	1.2	1.5	60.4	59.1*	59.8*
Kruger K3727	2.0	1.0	1.5	65.7*	53.7	59.7*
Pioneer Variety 9393	2.0	1.0	1.5	61.3*	57.2*	59.2*
Kruger K3808	2.2	1.3	1.8	63.3*	55.0*	59.2*
Lynks 5373	2.7	1.0	1.8	65.2*	53.3	59.2*
M/W Genetics G 3880	1.8	1.2	1.5	62.7*	55.5*	59.1*
Willcross 9435-B	1.3	1.0	1.2	59.5	58.2*	58.8*
Kruger K3939	2.5	1.2	1.8	63.1*	53.6	58.4*
Kruger K3909	2.5	1.0	1.8	62.6*	54.1	58.4*
McAllister Ruler	2.7	1.0	1.8	63.2*	53.4	58.3*
Merschman Fillmore IV	1.8	1.0	1.4	65.9*	50.5	58.2*
Ohlde 3900	1.7	1.0	1.4	62.2*	54.2	58.2*
Patriot 395	1.2	1.0	1.1	60.9*	55.4*	58.2*
Merschman Kennedy IV	2.7	1.0	1.8	67.4**	48.8	58.1*
Kruger K3838	2.3	1.0	1.6	62.4*	53.5	58.0*
Stine 3490	1.8	1.2	1.5	63.2*	52.6	57.9*
Willcross 92-A	1.7	1.0	1.4	62.5*	53.0	57.8
Reeds Brand 390	2.3	1.0	1.6	60.0	55.5*	57.8
Desoy 3434+	1.8	1.0	1.4	63.3*	52.2	57.8
Pioneer Variety 9381	1.7	1.0	1.4	59.4	55.8*	57.6
NeCo 7384	2.7	1.2	2.0	62.2*	53.1	57.6
MFA Morsoy 9137	2.2	1.0	1.6	66.5*	48.8	57.6
Patriot 355	2.2	1.0	1.6	61.4*	53.3	57.4
Morning Sun MSS 3300	2.5	1.0	1.8	61.1*	53.4	57.2
Hyperformer HY 351	1.3	1.0	1.2	63.8*	50.4	57.1
Morning Sun MSS 3893	1.7	1.0	1.4	58.8	55.4*	57.1
Stine 3660	1.5	1.0	1.2	62.7*	51.4	57.0
NeCo 7392	1.7	1.2	1.4	62.5*	51.5	57.0
Desoy 3949	2.3	1.2	1.8	62.2*	51.7	57.0
ICI D371	2.2	1.0	1.6	62.5*	51.3	56.9
NC+ 3A75	2.2	1.0	1.6	61.9*	51.9	56.9
Dairyland DSR-317	3.3	1.0	2.2	62.5*	51.3	56.9
Reeds Brand 333	1.5	1.0	1.2	59.6	54.2	56.9

TABLE 4. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Barnard	Novelty	Mean	Barnard	Novelty	Mean
Ohlde 3580	1.7	1.0	1.4	66.0*	47.5	56.8
Patriot 350	1.3	1.2	1.2	60.6	52.9	56.8
Ohlde 3580	1.7	1.0	1.4	66.0*	47.5	56.8
Patriot 350	1.3	1.2	1.2	60.6	52.9	56.8
Northrup King S35-35	1.7	1.2	1.4	61.9*	51.6	56.8
Fontanelle 5999	2.3	1.2	1.8	61.2*	52.5	56.8
Desoy 3909+	2.5	1.0	1.8	61.6*	51.9	56.8
Lewis 362	1.8	1.0	1.4	58.3	55.0*	56.6
Desoy 3434A	1.5	1.0	1.2	63.1*	50.0	56.6
Dyna-Gro 3368	2.7	1.2	2.0	58.2	54.5*	56.4
AgriPro AP 3799	1.7	1.0	1.4	57.4	55.3*	56.4
Golden Harvest H-1328	1.3	1.0	1.2	60.7	52.0	56.4
Kruger K3999	1.7	1.2	1.4	60.4	52.3	56.4
Shissler GR8 397	2.3	1.0	1.6	60.1	52.8	56.4
Stine 3630	2.5	1.0	1.8	58.8	54.0	56.4
AgriPro AP 3727	1.7	1.0	1.4	60.3	52.0	56.2
Pratt	2.0	1.0	1.5	59.2	52.6	55.9
Golden Harvest H-1388	2.7	1.3	2.0	62.0*	49.8	55.9
Asgrow A3510	1.7	1.0	1.4	55.7	56.0*	55.8
Flyer	2.3	1.2	1.8	57.4	54.3	55.8
Pioneer Variety 9392	1.2	1.0	1.1	59.1	52.6	55.8
NeCo 7354	1.8	1.0	1.4	57.8	53.9	55.8
Hamilton	3.2	1.2	2.2	51.6	59.8*	55.7
Desoy 3777	2.0	1.3	1.6	58.9	52.3	55.6
Terra Torch	2.7	1.0	1.8	62.6*	48.1	55.4
Fontanelle 6100	2.8	1.0	1.9	59.8	51.0	55.4
ICI D396	2.2	1.0	1.6	58.1	52.3	55.2
MFA Morsoy 9233	1.2	1.0	1.1	59.4	50.7	55.0
Corsica	2.0	1.2	1.6	57.8	52.1	55.0
Hyperperformer HSC 398	2.0	1.2	1.6	56.8	53.3	55.0
Asgrow A3237	1.3	1.0	1.2	59.2	50.6	54.9
Asgrow A3313	1.8	1.0	1.4	58.8	50.7	54.8
Patriot 345	1.8	1.0	1.4	54.8	54.9*	54.8
Lewis 367	2.5	1.0	1.8	56.8	52.9	54.8
Desoy 303E	2.5	1.0	1.8	61.5*	47.9	54.7
NeCo 7400	2.2	1.3	1.8	53.4	56.0*	54.7
Golden Harvest H-1353	1.8	1.0	1.4	60.3	48.9	54.6
Fontanelle 5621	2.8	1.2	2.0	59.4	49.7	54.6
Vigoro V363	2.0	1.0	1.5	58.0	51.0	54.5
MFA Morsoy 8838	1.5	1.3	1.4	54.3	54.5*	54.4
Dekalb CX377	1.7	1.2	1.4	56.9	51.6	54.2
Merschman Truman IV	2.0	1.0	1.5	59.2	49.1	54.2
Shissler GR8 383	2.2	1.2	1.7	54.4	53.7	54.0
AgriPro AP 3990	2.3	1.0	1.6	56.4	51.1	53.8
M/W Genetics G 3550	1.7	1.0	1.4	63.1*	44.6	53.8
Pioneer Variety 9342	1.3	1.0	1.2	58.4	49.0	53.7
Lewis 370	2.2	1.0	1.6	58.5	48.8	53.6
MFA Morsoy 9335SCN	2.0	1.0	1.5	58.1	49.0	53.6
Golden Harvest H-1358	1.8	1.0	1.4	57.4	49.8	53.6
Northrup King S39-11	2.3	1.3	1.8	53.8	53.3	53.6
Terra TS312	1.8	1.0	1.4	59.6	47.7	53.6
Dairyland DSR-305	2.7	1.0	1.8	58.3	49.0	53.6
Ohlde 3570	1.8	1.0	1.4	57.1	49.7	53.4
Morning Sun MSS 3690	2.8	1.2	2.0	57.1	49.5	53.3
Willcross 9435-A	1.8	1.0	1.4	58.3	48.1	53.2
Kruger K3769+	2.0	1.2	1.6	60.9*	45.2	53.0
ICI D321	2.3	1.0	1.6	61.5*	43.9	52.7
Ohio FG2	3.0	1.3	2.2	52.2	52.6	52.4
Lewis 388	1.7	1.0	1.4	56.0	48.2	52.1
Resnik	1.7	1.0	1.4	56.5	47.5	52.0
Merschman Roosevelt	1.8	1.0	1.4	55.7	48.2	52.0
Desoy 3535	1.8	1.0	1.4	53.9	50.1	52.0
Dyna-Gro 3303	2.7	1.0	1.8	65.2*	38.4	51.8
Fontanelle 5304	2.8	1.0	1.9	59.0	44.3	51.6
Willcross 92-B	2.3	1.0	1.6	57.0	46.3	51.6
Charleston	1.2	1.0	1.1	58.0	45.0	51.5
Hyperperformer HSC 317	1.5	1.0	1.2	58.4	44.3	51.4
Ohlde 3650	1.7	1.0	1.4	56.2	45.9	51.0
Shissler GR8 327	2.3	1.0	1.6	59.6	42.0	50.8
Hyperperformer HSC 373	1.8	1.0	1.4	55.0	45.7	50.4

TABLE 4. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Barnard	Novelty	Mean	Barnard	Novelty	Mean
Lynks 5380	1.5	1.0	1.2	54.5	45.8	50.2
Williams 82	2.7	1.3	2.0	48.0	51.9	50.0
Kruger K3636+	1.3	1.0	1.2	60.7	38.2	49.4
Wilson 3250	1.8	1.0	1.4	61.2*	36.9	49.0
EXPERIMENTAL VARIETIES						
Kruger K3525	2.0	1.2	1.6	64.1*	60.9*	62.5*
C1832	2.3	1.0	1.6	63.9*	55.3*	59.6*
Dairyland DST3206	1.8	1.0	1.4	60.4	54.3	57.4
Kruger K3900	2.8	1.2	2.0	58.6	54.1	56.4
McAllister Ex 399	2.3	1.0	1.6	57.4	52.5	55.0
AVERAGE	2.0	1.1	1.5	60.0	51.7	55.9
L.S.D. AT .05	1.0	0.3	7.2	6.6	7.2	5.1
C.V. %				6.8	8.6	
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Merschman Atlanta III	3.6	1.3	2.4	59.5*	58.0*	58.8**
Hyperformer HY 458	2.1	1.0	1.6	61.4**	55.1*	58.2*
Northrup King S42-60	2.0	1.2	1.6	57.3*	57.5*	57.4*
Dekalb CX411	1.0	1.2	1.1	59.5*	55.4*	57.4*
Reeds Brand 445	3.2	1.7	2.4	51.2	61.1**	56.2*
Desoy 4141	2.3	1.3	1.8	56.3*	56.1*	56.2*
Wilson 4010	1.5	1.0	1.2	60.4*	51.4	55.9*
Golden Harvest H-1407	2.3	1.2	1.8	53.4	58.0*	55.7*
Merschman Norfolk	2.2	1.0	1.6	59.8*	51.5	55.6*
Vigoro V443	2.3	1.0	1.6	54.5	55.4*	55.0*
Stine 4340	3.7	1.3	2.5	51.5	58.2*	54.8*
NC+ 4A10	1.4	1.0	1.2	55.7*	53.9	54.8*
Calhoun	1.0	1.0	1.0	51.6	56.6*	54.1*
Hyperformer HY 446	1.5	1.3	1.4	55.4*	52.8	54.1*
Prairie Brand PB-414	2.5	1.0	1.8	54.9*	53.1	54.0*
Dyna-Gro 3400	2.8	1.2	2.0	53.6	54.4	54.0*
Merschman Norfolk II	1.0	1.2	1.1	52.8	55.0*	53.9*
Merschman Houston III	2.5	1.3	1.9	53.2	54.5	53.8*
Merschman Richmond II	3.8	1.7	2.8	53.8	53.8	53.8*
Merschman Dallas	3.0	2.3	2.6	53.4	54.3	53.8*
Ohlde 4040	2.0	1.0	1.5	53.8	53.3	53.6
AgriPro AP 4100	1.9	1.0	1.4	56.5*	50.0	53.2
ICI D427	1.0	1.0	1.0	52.4	54.1	53.2
Stressland	3.0	1.3	2.2	55.1*	50.7	52.9
Dekalb CX404	1.7	1.0	1.4	52.7	53.0	52.8
Kruger K4101+	1.7	1.2	1.4	58.3*	46.3	52.3
Merschman Austin II	2.6	1.7	2.2	48.9	55.3*	52.1
Asgrow 4138	2.7	1.0	1.8	56.6*	47.3	52.0
Terra TS402	1.4	1.0	1.2	54.2	49.6	51.9
MFA Morsoy 9241	1.1	1.0	1.0	52.5	51.3	51.9
Ciba Seeds 3474	3.2	1.5	2.4	54.7	48.4	51.6
Merschman Cleveland III	1.5	1.3	1.4	52.4	49.5	51.0
Lewis 409	1.6	1.0	1.3	50.0	51.0	50.5
MFA Morsoy 8842	3.0	1.2	2.1	50.9	50.0	50.4
Desoy 4101	1.7	1.0	1.4	52.3	48.1	50.2
Merschman Dallas II	2.4	1.0	1.7	43.7	54.9*	49.3
ICI D414	2.0	1.2	1.6	51.2	47.0	49.1
EXPERIMENTAL VARIETIES						
NMSB X4307	3.5	1.7	2.6	58.4*	56.7*	57.6*
K1207	2.7	1.8	2.2	57.1*	57.0*	57.0*
McAllister Ex 404	1.8	1.0	1.4	54.1	57.7*	55.9*
Desoy 4242A	2.4	1.2	1.8	53.1	57.7*	55.4*
AVERAGE	2.2	1.2	1.7	54.3	53.5	53.9
L.S.D. AT .05	1.0	0.4	0.3	6.6	6.4	5.1
C.V. %				7.5	7.4	
TRIAL AVERAGE	2.1	1.1	1.6	58.4	52.0	55.2

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding variety in the same maturity group.

TABLE 5. Performance of Soybean Varieties evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1994, the George Hamilton Farm near Miami during 1992 and the Ryland Utlaut Farm near Grand Pass during 1991.

Planted: 5 May 1994
 Harvested: 7, 21 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=6.3, OM=3.0%, P=130, K=584

Fertilizer: N=0; P₂O₅=100; K₂O=100
 Herbicide: Pre: Scepter
 Post: Pinnacle, Assure II, Blazer
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 1200 Eggs / 250cc of Soil
 Growing Season Rainfall: May=1.9, June=4.1, July=2.6, Aug.=2.5, Sept.=2.3, TOTAL=13.4 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
	MATURITY GROUP 2							
COMMERCIAL VARIETIES								
Reeds Brand 222	9-06	36.6	2.7	51.6	53.6	58.6	52.6	54.6
AVERAGE	9-06	36.6	2.7	51.6	53.6	58.6	52.6	54.6
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-07							
Pioneer Variety 9362	9-06	37.5	1.7	71.3**	--	--	--	--
Kruger K3769+	9-11	38.2	3.0	69.5*	58.5*	--	64.0	--
Golden Harvest H-1353	9-13	38.3	4.1	68.2*	62.8**	--	65.5	--
Lynks 5373	9-14	38.4	3.8	67.2*	--	--	--	--
MFA Morsoy 9137	9-15	38.8	3.1	66.2*	52.6	--	59.4	--
Pioneer Variety 9381	9-13	36.0	2.3	65.7*	53.3	53.6*	59.5	57.5
Vigoro V363	9-08	41.5	3.0	65.3*	--	--	--	--
Willcross 92-A	9-15	38.8	3.4	64.8*	54.0	--	59.4	--
Merschman Eisenhower III	9-16	39.3	2.3	64.4*	--	--	--	--
MFA Morsoy 9335SCN	9-09	43.5	3.1	64.3*	--	--	--	--
Golden Harvest H-1358	9-10	42.9	3.3	63.9*	--	52.9*	--	--
Pioneer Variety 9392	9-14	42.9	1.9	63.9*	52.4	45.8	58.2	54.0
Willcross 9435-A	9-10	37.3	2.6	63.8*	--	--	--	--
Northrup King S39-11	9-15	41.9	3.2	63.6*	--	--	--	--
M/W Genetics G 3880	9-17	42.3	3.1	63.5*	--	--	--	--
NeCo 7392	9-13	37.8	3.4	63.4*	51.7	49.1	57.6	54.7
Asgrow A3431	9-11	38.2	1.7	63.0*	--	--	--	--
Merschman Kennedy IV	9-13	38.5	4.4	62.8*	61.3*	--	62.1	--
AgriPro AP 3799	9-11	36.0	1.9	62.2*	--	--	--	--
Dyna-Gro 3303	9-07	35.3	4.1	61.9*	--	--	--	--
Kruger K3939	9-15	40.4	4.0	61.8	57.2*	--	59.5	--
NeCo 7384	9-14	36.5	2.3	61.5	--	--	--	--
Patriot 373	9-15	39.0	2.6	61.4	--	--	--	--
ICI D371	9-14	37.9	3.2	61.1	60.5*	--	60.8	--
Hubner H400	9-15	38.4	4.0	61.0	--	--	--	--
Lewis 362	9-08	41.8	2.7	61.0	--	--	--	--
Flyer	9-16	38.0	2.6	60.6	51.5	46.4	56.1	52.8
AgriPro AP 3990	9-14	39.0	3.1	59.8	54.1	--	57.0	--
Willcross 9435-B	9-12	36.2	1.8	59.8	--	--	--	--
Hubner H381	9-12	37.0	2.3	59.7	--	--	--	--
Ciba Seeds 3362	9-10	36.8	2.5	59.6	60.8*	--	60.2	--
Reeds Brand 390	9-15	36.4	2.7	59.6	52.8	54.4*	56.2	55.6
Stine 3490	9-15	36.3	1.3	59.5	--	--	--	--
MFA Morsoy 9338SCN	9-12	43.8	2.7	59.4	--	--	--	--
ICI D396	9-15	36.3	2.3	59.1	--	--	--	--
Lynks 5380	9-12	42.7	2.8	59.0	--	--	--	--
NeCo 7354	9-13	35.4	3.0	58.8	--	--	--	--
Willcross 92-B	9-16	37.2	2.1	58.8	52.9	--	55.9	--
Fontanelle 6100	9-14	37.8	2.7	58.7	55.9	--	57.3	--
Corsica	9-14	38.9	3.6	58.2	--	--	--	--
Hartzler Racer	9-18	41.7	2.7	57.6	--	--	--	--
Dyna-Gro 3368	9-13	38.6	2.3	57.6	--	--	--	--

TABLE 5. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
Terra Torch	9-15	38.3	2.8	57.5	56.6	56.3*	57.1	56.8
NeCo 7400	9-16	36.4	3.4	57.0	--	--	--	--
Hubner H360	9-12	41.6	2.9	56.9	--	--	--	--
Charleston	9-13	24.4	1.0	56.7	59.6*	--	58.2	--
Reeds Brand 333	9-12	37.8	2.7	56.5	54.3	52.4*	55.4	54.4
Patriot 395	9-15	39.0	2.6	56.2	--	--	--	--
Dairyland DSR-317	9-13	40.9	3.3	56.2	52.2	--	54.2	--
Golden Harvest H-1388	9-15	38.6	2.4	56.0	--	--	--	--
Asgrow 3510	9-15	36.6	2.6	55.3	--	--	--	--
Heartland HD-318	9-15	39.7	2.0	55.1	--	--	--	--
Piatt	9-09	37.6	1.5	54.5	--	--	--	--
Lewis 388	9-10	39.8	1.7	53.7	53.5	49.8	53.6	52.3
Williams 82	9-16	47.2	3.7	52.9	52.9	42.9	52.9	49.6
Terra TS312	9-07	36.2	3.1	52.9	53.6	--	53.3	--
Heartland HD-318A	9-15	36.8	2.7	52.9	--	--	--	--
Pioneer Variety 9393	9-13	38.4	2.3	52.6	--	--	--	--
Fontanelle 6104	9-14	36.4	1.5	52.6	--	--	--	--
Hamilton	9-14	38.9	3.7	52.6	--	--	--	--
Dekalb CX399	9-11	37.2	2.8	51.7	--	--	--	--
MFA Morsoy 8838	9-14	37.6	4.1	51.4	51.8	49.5	51.6	50.9
Ohio FG2	9-13	36.6	2.8	51.3	--	--	--	--
Edison	9-12	36.4	2.5	50.5	52.3	53.1*	51.4	52.0
Resnik	9-08	35.5	2.0	49.0	44.9	44.3	47.0	46.1
Bergmann-Taylor BT 385STS	9-09	35.1	2.5	46.1	--	--	--	--
EXPERIMENTAL VARIETIES								
C1832	9-09	36.4	3.7	59.6	--	--	--	--
AVERAGE	9-13	38.3	2.8	59.0	53.4	48.6	56.1	53.6
L.S.D. AT .05	4	4.2	1.2	9.4	5.9	8.0		
C.V.%	0.8	6.8		9.7	6.8	10.0		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-17							
Vigoro V443	9-22	48.4	2.0	56.3**	--	--	--	--
AgriPro AP 4100	9-14	39.5	1.6	56.2*	--	--	--	--
Dekalb CX411	9-19	40.4	2.3	56.0*	--	--	--	--
Stine 4650	9-25	45.6	2.9	56.0*	--	--	--	--
JMS 4240	9-17	47.5	2.9	55.7*	--	--	--	--
Asgrow A4539	9-22	43.0	2.5	55.1*	--	--	--	--
Pioneer Variety 9444	9-16	41.9	3.4	55.0*	--	--	--	--
Willcross 9447-B	9-28	48.4	3.5	54.5*	--	--	--	--
Lewis 472	9-27	45.2	3.7	54.4*	--	--	--	--
Willcross 9447-A	10-01	47.6	4.5	54.1*	--	--	--	--
Merschman Atlanta III	9-27	47.4	3.5	54.1*	--	--	--	--
JMS 4788	9-28	48.3	3.8	53.9*	--	--	--	--
Reeds Brand 445	9-29	48.0	3.7	53.6*	--	--	--	--
Hyperformer HY 458	9-28	48.7	2.3	53.3*	--	--	--	--
Merschman Houston III	9-25	45.3	4.6	53.2*	--	--	--	--
Lynks 5451	9-19	47.4	2.6	53.0*	--	--	--	--
Pioneer Variety 9452	9-18	38.2	1.3	52.9*	--	--	--	--
Lewis 409	9-16	37.2	3.1	52.7*	53.1	54.9*	52.9	53.6
Golden Harvest H-1407	9-20	42.1	3.2	52.6*	53.9	54.0*	53.3	53.5
Patriot 488	9-27	47.5	3.4	52.6*	--	--	--	--
Northrup King S42-60	9-18	39.2	3.4	52.0*	--	--	--	--
Patriot 410	9-18	47.8	3.6	51.9*	--	--	--	--
Northrup King S46-44	9-24	47.3	3.3	51.8*	--	--	--	--
MFA Morsoy 8944	9-21	44.8	4.5	51.0*	57.7*	51.0*	54.4	53.2
MFA Morsoy 9245SCN	9-19	43.8	2.8	50.9*	--	--	--	--
ICI D427	9-16	42.2	2.0	50.2*	58.8*	--	54.5	--
Pioneer Variety 9451	9-19	43.9	3.4	50.2*	--	--	--	--
ICI D414	9-22	45.9	3.5	50.2*	--	--	--	--
Bergmann-Taylor BT 484	9-27	45.2	3.1	50.0*	--	--	--	--

TABLE 5. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
	Mycogen 470	9-26	51.1	4.3	49.5*	--	--	--
Dekalb CX404	9-17	44.3	3.5	49.5*	58.9*	--	54.2	--
Willcross 9345	9-21	46.4	3.2	48.8*	--	--	--	--
MFA Morsoy 8842	9-17	43.5	2.8	48.7*	53.2	54.5*	51.0	52.1
Stressland	9-21	43.1	3.3	48.4	--	--	--	--
MFA Morsoy 9241	9-18	37.5	1.7	48.3	--	--	--	--
MFA Morsoy 9345SCN	9-26	47.0	5.0	48.2	50.4	50.9*	49.3	49.8
Asgrow A4138	9-16	44.8	4.1	48.1	--	--	--	--
Merschman Norfolk II	9-17	36.8	2.3	47.9	--	--	--	--
Patriot 422	9-20	45.2	3.4	47.9	--	--	--	--
KS4694	9-27	43.1	2.6	47.4	--	--	--	--
NeCo 7484	9-28	43.7	3.0	47.4	--	--	--	--
Merschman Richmond II	9-17	42.0	5.0	47.3	--	--	--	--
Merschman Cleveland III	9-20	43.8	2.0	47.3	--	--	--	--
Merschman Norfolk	9-16	38.1	2.8	47.3	52.4	55.2*	49.8	51.6
Hyperformer HY 446	9-19	49.5	2.0	46.8	--	--	--	--
Terra TS402	9-16	36.6	3.7	46.8	57.2*	--	52.0	--
Hartzler Dependable	9-25	49.6	3.5	46.6	--	--	--	--
Merschman Dallas II	9-28	33.3	1.9	46.5	58.8*	--	52.7	--
MFA Morsoy 9348	9-25	40.2	3.2	45.8	--	--	--	--
Dyna-Gro 3400	9-15	38.6	2.3	45.7	--	--	--	--
Merschman Austin II	9-22	49.2	3.5	44.7	61.4*	--	53.1	--
Merschman Dallas	9-29	51.2	4.2	44.7	49.5	49.7	47.1	48.0
NeCo 1300	9-20	42.8	3.3	44.1	58.6*	56.3*	51.4	53.0
Calhoun	9-21	30.6	1.4	43.8	--	--	--	--
Stine 4340	9-26	45.3	4.7	42.6	--	--	--	--
Kruger K4101+	9-18	36.1	2.5	41.6	--	--	--	--
Hyperformer HY 498	10-03	52.6	4.7	39.7	--	--	--	--
EXPERIMENTAL VARIETIES								
McAllister Ex 404	9-20	44.5	3.2	51.3*	--	--	--	--
NMSB X4307	9-22	43.8	4.1	50.4*	--	--	--	--
K1207	9-21	41.5	4.0	48.0	--	--	--	--
5.0 Maturity group Check##	10-05							
AVERAGE	9-22	43.9	3.2	49.9	54.3	51.6	52.1	51.9
L.S.D. AT .05	4	5.1	1.2	7.6	6.8	8.3		
C.V.%	0.8	7.1		9.4	7.8	10.0		
TRIAL AVERAGE		41.0	3.0	54.8	53.7	49.8	54.2	52.8

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group check as identified on page 4.

TABLE 6. Performance of Soybean Varieties evaluated near High Hill (Montgomery County) on the John Cobb Farm during 1994 and near McKittrick on the Terry Loehning farm 1991-92.

Planted: 13 May 1994
 Harvested: 20 September, 3 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.3, OM=2.5%, P=39, K=204

Fertilizer: N=18; P₂O₅=46; K₂O=60
 Herbicide: Pre: Lasso + Scepter
 Post: Basagran, Poast
 Irrigation: 0.00 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=1.9, June=5.4, July=0.8, Aug.=4.2, Sept.=0.9, TOTAL=13.2 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
	MATURITY GROUP 2							
COMMERCIAL VARIETIES								
2.0 Maturity Group Check##	8-14							
Reeds Brand 222	8-28	26.2	1.0	26.0	53.9	32.3	40.0	37.4
Average	8-28	26.2	1.0	26.0	53.9	32.3	40.0	37.4
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	8-28							
Pioneer Variety 9362	9-01	27.5	1.0	33.2**	--	--	--	--
NeCo 7354	9-02	27.6	1.0	33.2**	--	--	--	--
Pioneer Variety 9392	9-03	29.8	1.0	32.4*	56.8	42.8	44.6	44.0
Willcross 9435-B	9-03	24.9	1.0	30.4*	--	--	--	--
MFA Morsoy 9137	9-01	27.1	1.0	30.0*	58.1*	--	44.1	--
Asgrow A3431	9-04	27.0	1.0	29.9*	--	--	--	--
Willcross 9435-A	9-01	25.8	1.0	29.2*	--	--	--	--
ICI D371	9-01	25.0	1.0	29.2*	59.7*	--	44.5	--
Willcross 92-A	9-07	27.3	1.0	29.0*	56.5	--	42.8	--
Pioneer Variety 9381	8-28	27.1	1.0	28.8	61.7*	39.9	45.3	43.5
Kruger K3769+	9-01	26.7	1.0	28.8	59.8*	--	44.3	--
MFA Morsoy 8838	9-05	30.0	1.0	28.7	52.0	48.0*	40.4	42.9
Ciba Seeds 3362	8-30	28.3	1.0	28.5	58.7*	--	43.6	--
Dyna-Gro 3368	9-01	26.4	1.0	28.3	--	--	--	--
NeCo 7392	9-06	28.5	1.0	28.3	54.8	40.4	41.6	41.2
Asgrow 3510	9-02	24.5	1.0	28.0	--	--	--	--
Fontanelle 6100	9-04	29.0	1.0	27.9	60.4*	--	44.2	--
AgriPro AP 3799	9-02	24.7	1.0	27.6	--	--	--	--
MFA Morsoy 9338SCN	9-07	32.3	1.0	27.5	--	--	--	--
Hubner H360	9-02	33.6	1.0	27.4	--	--	--	--
Vigoro V363	9-01	29.5	1.0	27.4	--	--	--	--
Lynks 5373	9-01	26.8	1.0	27.3	--	--	--	--
Hamilton	9-04	27.4	1.0	27.1	56.5	49.4*	41.8	44.3
Northrup King S39-11	9-09	33.4	1.0	26.8	--	--	--	--
Lynks 5380	9-03	30.2	1.0	26.8	--	--	--	--
Golden Harvest H-1353	8-30	26.1	1.0	26.8	62.3*	--	44.6	--
Lewis 362	9-01	29.1	1.0	26.6	--	--	--	--
Heartland HD-318A	9-06	30.0	1.0	26.6	--	--	--	--
Terra Torch	8-30	25.8	1.0	26.5	61.5*	41.3	44.0	43.1
Hubner H400	9-05	28.6	1.0	26.4	--	--	--	--
Piatt	8-30	27.7	1.0	26.3	--	--	--	--
Lewis 388	9-01	29.3	1.0	26.3	56.9	49.8*	41.6	44.3
Heartland HD-318	9-08	28.5	1.0	26.3	--	--	--	--
Dekalb CX399	9-01	29.7	1.0	26.1	--	--	--	--
M/W Genetics G 3880	9-04	28.9	1.0	26.1	--	--	--	--
AgriPro AP 3990	9-03	25.2	1.0	25.9	60.8*	--	43.3	--
Terra TS312	8-28	23.1	1.0	25.8	55.2	--	40.5	--
Hubner H381	9-04	26.1	1.0	25.7	--	--	--	--
ICI D396	9-03	28.1	1.0	25.6	--	--	--	--
Merschman Kennedy IV	8-30	27.6	1.0	25.4	58.0*	--	41.7	--

TABLE 6. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
	Reeds Brand 333	9-01	26.0	1.0	25.4	53.4	41.8	39.4
Merschman Eisenhower III	9-06	30.5	1.0	25.3	--	--	--	--
Williams 82	9-07	30.8	1.0	25.2	49.9	40.1	37.6	38.4
Kruger K3939	9-01	29.1	1.0	25.2	60.3*	--	42.8	--
Willcross 92-B	9-09	27.3	1.0	25.2	53.4	--	39.3	--
Hartzler Racer	9-02	28.2	1.0	25.1	--	--	--	--
Resnik	9-01	28.0	1.0	25.1	50.3	38.3	37.7	37.9
Dyna-Gro 3303	8-28	25.1	1.0	24.8	--	--	--	--
NeCo 7400	9-09	24.8	1.0	24.8	--	--	--	--
NeCo 7384	9-04	25.2	1.0	24.6	--	--	--	--
Stine 3490	9-04	29.5	1.0	24.4	--	--	--	--
Corsica	9-02	28.7	1.0	24.2	59.0*	--	41.6	--
Charleston	8-28	20.6	1.0	24.0	63.5**	--	43.8	--
Fontanelle 6104	9-05	27.5	1.0	23.9	--	--	--	--
Pioneer Variety 9393	9-06	24.9	1.0	23.9	--	--	--	--
Ohio FG2	8-28	27.4	1.0	23.9	--	--	--	--
Reeds Brand 390	9-09	28.9	1.0	23.8	57.2	44.7*	40.5	41.9
Golden Harvest H-1358	9-01	28.8	1.0	23.7	--	45.2*	--	--
Flyer	9-06	28.4	1.0	23.7	56.9	39.8	40.3	40.1
Dairyland DSR-317	9-01	31.4	1.0	23.7	54.7	--	39.2	--
MFA Morsoy 9335SCN	9-02	28.2	1.0	23.5	--	--	--	--
Patriot 373	9-02	29.4	1.0	22.8	--	--	--	--
Patriot 395	9-06	24.8	1.0	22.4	--	--	--	--
Bergmann-Taylor BT 385STS	8-28	26.4	1.0	22.2	--	--	--	--
Edison	9-02	23.6	1.0	22.0	56.7	38.7	39.4	39.1
Golden Harvest H-1388	9-04	29.1	1.0	21.6	--	--	--	--
EXPERIMENTAL VARIETIES								
C1832	8-30	26.5	1.0	26.6	--	--	--	--
AVERAGE	9- 2	27.6	1.0	26.3	56.5	42.8	41.4	41.9
L.S.D. AT .05	3	2.9	NS	4.2	5.9	6.4		
C.V.%	0.8	6.4		9.7	6.5	10.2		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-04							
Merschman Dallas II	9-18	24.4	1.0	41.0**	57.1	--	49.1	--
Pioneer Variety 9451	9-14	34.5	1.3	40.3*	--	--	--	--
Stine 4340	9-17	32.2	1.3	40.2*	--	--	--	--
Patriot 422	9-15	29.6	1.0	39.6*	--	--	--	--
Calhoun	9-17	22.6	1.0	39.6*	--	--	--	--
Northrup King S46-44	9-17	32.6	1.3	39.3*	--	--	--	--
KS4694	9-16	28.1	1.0	38.7*	--	--	--	--
Willcross 9447-B	9-16	31.5	1.3	38.4*	--	--	--	--
Lewis 409	9-06	29.6	1.0	38.0*	58.6	47.2*	48.3	47.9
Vigoro V443	9-15	33.3	1.0	37.7*	--	--	--	--
Stine 4650	9-16	29.8	1.3	37.6*	--	--	--	--
Lynks 5451	9-14	30.9	1.0	37.5*	--	--	--	--
Merschman Dallas	9-18	36.9	1.3	37.4*	58.6	41.7	48.0	45.9
Bergmann-Taylor BT 484	9-17	32.3	1.0	37.1*	--	--	--	--
Reeds Brand 445	9-17	31.4	1.0	36.9*	--	--	--	--
MFA Morsoy 9245SCN	9-15	31.9	1.0	36.8*	--	--	--	--
Mycogen 470	9-16	31.1	1.3	36.8*	--	--	--	--
JMS 4240	9-13	32.2	1.0	36.6*	--	--	--	--
Golden Harvest H-1407	9-09	28.2	1.0	36.2*	60.8	45.4*	48.5	47.5
Lewis 472	9-17	32.0	1.7	36.0*	--	--	--	--
Hyperformer HY 458	9-13	32.8	1.0	35.4*	--	--	--	--
Merschman Norfolk	9-07	31.1	1.0	35.2*	56.7	43.3*	46.0	45.1
Pioneer Variety 9452	9-14	23.8	1.0	35.2*	--	--	--	--
Merschman Austin II	9-10	35.3	1.7	34.8	51.9	--	43.3	--
MFA Morsoy 9348	9-17	33.3	1.0	34.8	--	--	--	--

TABLE 6. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
Willcross 9447-A	9-17	32.5	1.0	34.7	--	--	--	--
Merschman Houston III	9-18	33.4	1.0	34.7	--	--	--	--
Stressland	9-11	33.0	1.0	34.5	--	--	--	--
AgriPro AP 4100	9-04	28.6	1.0	34.4	--	--	--	--
Dyna-Gro 3400	9-05	28.2	1.0	34.2	--	--	--	--
Asgrow A4138	9-12	28.9	1.3	34.0	--	--	--	--
MFA Morsoy 8944	9-17	30.0	1.0	33.8	59.8	45.5*	46.8	46.4
Merschman Cleveland III	9-11	33.8	1.3	33.6	--	--	--	--
Hyperformer HY 446	9-12	35.1	1.0	33.6	--	--	--	--
Merschman Norfolk II	9-08	26.3	1.0	33.5	--	--	--	--
Dekalb CX404	9-10	27.0	1.0	33.5	62.0	--	47.8	--
NeCo 1300	9-14	31.4	1.0	33.4	59.4	41.1	46.4	44.6
NeCo 7484	9-16	34.0	1.0	33.3	--	--	--	--
MFA Morsoy 9345SCN	9-16	32.0	1.3	33.2	50.3	37.5	41.8	40.3
ICI D414	9-09	29.4	1.0	33.2	--	--	--	--
Kruger K4101+	9-08	27.3	1.0	33.1	--	--	--	--
Asgrow A4539	9-11	25.5	1.0	33.0	--	--	--	--
Terra TS402	9-05	28.7	1.0	32.9	57.8	--	45.3	--
Patriot 488	9-16	31.9	1.0	32.5	--	--	--	--
Merschman Atlanta III	9-18	33.0	2.0	32.3	--	--	--	--
Pioneer Variety 9444	9-07	26.1	1.0	32.3	--	--	--	--
Merschman Richmond II	9-04	32.5	1.3	32.2	--	--	--	--
Willcross 9345	9-13	32.5	1.3	31.9	--	--	--	--
JMS 4788	9-14	34.0	1.0	31.9	--	--	--	--
MFA Morsoy 8842	9-09	34.2	1.3	31.8	60.2	37.6	46.0	43.2
MFA Morsoy 9241	9-10	26.5	1.0	31.0	--	--	--	--
Hyperformer HY 498	10-03	33.1	1.0	30.9	--	--	--	--
ICI D427	9-09	28.7	1.0	30.3	59.1	--	44.7	--
Patriot 410	9-13	27.9	1.0	30.1	--	--	--	--
Hartzler Dependable	9-16	31.1	1.3	27.8	--	--	--	--
Northrup King S42-60	9-06	29.7	1.0	27.7	--	--	--	--
Dekalb CX411	9-05	23.3	1.0	26.1	--	--	--	--
EXPERIMENTAL VARIETIES								
NMSB X4307	9-04	31.2	1.3	38.3*	--	--	--	--
K1207	9-05	31.9	1.3	37.8*	--	--	--	--
McAllister Ex 404	9-12	28.5	1.0	37.7*	--	--	--	--
5.0 Maturity group Check##	10-03							
AVERAGE	9-13	30.5	1.1	34.8	56.9	42.4	45.8	44.7
L.S.D. AT .05	4	3.3	0.5	5.9	7.4	6.7		
C.V.%	0.9	6.7		10.4	8.0	10.0		
TRIAL AVERAGE		29.0	1.1	30.3	56.7	42.6	43.5	43.2

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group check as identified on page 4.

NS Not significant at the .05 level.

TABLE 7. Performance of Soybean Varieties evaluated at two Central Missouri locations (Marshall and High Hill) during 1994.

Marshall
 Planted: 5 May 1994
 Harvested: 7, 21 October 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

High Hill
 Planted: 13 May 1994
 Harvested: 20 Sept., 3 Oct. 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

Soil Type: Monona Silt Loam
 Previous Crop: Corn
 SCN Population at Planting: 1200 Eggs
 Growing Season Moisture: 13.4 Inches

Soil Type: Mexico Silt Loam
 Previous Crop: Wheat
 SCN Population at Planting: 0 Eggs
 Growing Season Moisture: 13.2 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	High Hill	Mean	Marshall	High Hill	Mean
MATURITY GROUP 2						
COMMERCIAL VARIETIES						
Reeds Brand 222	2.7	1.0	1.8	51.6	26.0	38.8
AVERAGE	2.7	1.0	1.8	51.6	26.0	38.8
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Pioneer Variety 9362	1.7	1.0	1.4	71.3**	33.2**	52.2**
Kruger K3769+	3.0	1.0	2.0	69.5*	28.8	49.2*
Pioneer Variety 9392	1.9	1.0	1.4	63.9*	32.4*	48.2*
MFA Morsoy 9137	3.1	1.0	2.0	66.2*	30.0*	48.1*
Golden Harvest H-1353	4.1	1.0	2.6	68.2*	26.8	47.5*
Pioneer Variety 9381	2.3	1.0	1.6	65.7*	28.8	47.2*
Lynks 5373	3.8	1.0	2.4	67.2*	27.3	47.2*
Willcross 92-A	3.4	1.0	2.2	64.8*	29.0*	46.9*
Willcross 9435-A	2.6	1.0	1.8	63.8*	29.2*	46.5
Asgrow A3431	1.7	1.0	1.4	63.0*	29.9*	46.4
Vigoro V363	3.0	1.0	2.0	65.3*	27.4	46.4
NeCo 7354	3.0	1.0	2.0	58.8	33.2**	46.0
NeCo 7392	3.4	1.0	2.2	63.4*	28.3	45.8
ICI D371	3.2	1.0	2.1	61.1	29.2*	45.2
Northrup King S39-11	3.2	1.0	2.1	63.6*	26.8	45.2
Willcross 9435-B	1.8	1.0	1.4	59.8	30.4*	45.1
AgriPro AP 3799	1.9	1.0	1.4	62.2*	27.6	44.9
M/W Genetics G 3880	3.1	1.0	2.0	63.5*	26.1	44.8
Merschman Eisenhower III	2.3	1.0	1.6	64.4*	25.3	44.8
Merschman Kennedy IV	4.4	1.0	2.7	62.8*	25.4	44.1
Ciba Seeds 3362	2.5	1.0	1.8	59.6	28.5	44.0
MFA Morsoy 9335SCN	3.1	1.0	2.0	64.3*	23.5	43.9
Golden Harvest H-1358	3.3	1.0	2.2	63.9*	23.7	43.8
Lewis 362	2.7	1.0	1.8	61.0	26.6	43.8
Hubner H400	4.0	1.0	2.5	61.0	26.4	43.7
Kruger K3939	4.0	1.0	2.5	61.8	25.2	43.5
Dyna-Gro 3303	4.1	1.0	2.6	61.9*	24.8	43.4
MFA Morsoy 9338SCN	2.7	1.0	1.8	59.4	27.5	43.4
Fontanelle 6100	2.7	1.0	1.8	58.7	27.9	43.3
NeCo 7384	2.3	1.0	1.6	61.5	24.6	43.0
Dyna-Gro 3368	2.3	1.0	1.6	57.6	28.3	43.0
Lynks 5380	2.8	1.0	1.9	59.0	26.8	42.9
AgriPro AP 3990	3.1	1.0	2.0	59.8	25.9	42.8
Hubner H381	2.3	1.0	1.6	59.7	25.7	42.7
ICI D396	2.3	1.0	1.6	59.1	25.6	42.4
Hubner H360	2.9	1.0	2.0	56.9	27.4	42.2
Flyer	2.6	1.0	1.8	60.6	23.7	42.2
Patriot 373	2.6	1.0	1.8	61.4	22.8	42.1
Willcross 92-B	2.1	1.0	1.6	58.8	25.2	42.0
Stine 3490	1.3	1.0	1.2	59.5	24.4	42.0
Terra Torch	2.8	1.0	1.9	57.5	26.5	42.0
Reeds Brand 390	2.7	1.0	1.8	59.6	23.8	41.7
Asgrow 3510	2.6	1.0	1.8	55.3	28.0	41.6
Hartzler Racer	2.7	1.0	1.8	57.6	25.1	41.4
Corsica	3.6	1.0	2.3	58.2	24.2	41.2

TABLE 7. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	High Hill	Mean	Marshall	High Hill	Mean
Reeds Brand 333	2.7	1.0	1.8	56.5	25.4	41.0
NeCo 7400	3.4	1.0	2.2	57.0	24.8	40.9
Heartland HD-318	2.0	1.0	1.5	55.1	26.3	40.7
Piatt	1.5	1.0	1.2	54.5	26.3	40.4
Charleston	1.0	1.0	1.0	56.7	24.0	40.4
Lewis 388	1.7	1.0	1.4	53.7	26.3	40.0
MFA Morsoy 8838	4.1	1.0	2.6	51.4	28.7	40.0
Dairyland DSR-317	3.3	1.0	2.2	56.2	23.7	40.0
Heartland HD-318A	2.7	1.0	1.8	52.9	26.6	39.8
Hamilton	3.7	1.0	2.4	52.6	27.1	39.8
Terra TS312	3.1	1.0	2.0	52.9	25.8	39.4
Patriot 395	2.6	1.0	1.8	56.2	22.4	39.3
Williams 82	3.7	1.0	2.4	52.9	25.2	39.0
Dekalb CX399	2.8	1.0	1.9	51.7	26.1	38.9
Golden Harvest H-1388	2.4	1.0	1.7	56.0	21.6	38.8
Pioneer Variety 9393	2.3	1.0	1.6	52.6	23.9	38.2
Fontanelle 6104	1.5	1.0	1.2	52.6	23.9	38.2
Ohio FG2	2.8	1.0	1.9	51.3	23.9	37.6
Resnik	2.0	1.0	1.5	49.0	25.1	37.0
Edison	2.5	1.0	1.8	50.5	22.0	36.2
Bergmann-Taylor BT 385STS	2.5	1.0	1.8	46.1	22.2	34.2
EXPERIMENTAL VARIETIES						
C1832	3.7	1.0	2.4	59.6	26.6	43.1
AVERAGE	2.8	1.0	1.9	59.0	26.3	42.7
L.S.D. AT .05	1.2	NS	0.4	9.4	4.2	5.6
C.V. %				9.7	9.7	
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Vigoro V443	2.0	1.0	1.5	56.3**	37.7*	47.0**
Stine 4650	2.9	1.3	2.1	56.0*	37.6*	46.8*
Willcross 9447-B	3.5	1.3	2.4	54.5*	38.4*	46.4*
JMS 4240	2.9	1.0	2.0	55.7*	36.6*	46.2*
Northrup King S46-44	3.3	1.3	2.3	51.8*	39.3*	45.6*
Lewis 409	3.1	1.0	2.0	52.7*	38.0*	45.4*
AgriPro AP 4100	1.6	1.0	1.3	56.2*	34.4	45.3*
Lewis 472	3.7	1.7	2.7	54.4*	36.0*	45.2*
Pioneer Variety 9451	3.4	1.3	2.4	50.2*	40.3*	45.2*
Lynks 5451	2.6	1.0	1.8	53.0*	37.5*	45.2*
Reeds Brand 445	3.7	1.0	2.4	53.6*	36.9*	45.2*
Golden Harvest H-1407	3.2	1.0	2.1	52.6*	36.2*	44.4*
Willcross 9447-A	4.5	1.0	2.8	54.1*	34.7	44.4*
Hyperformer HY 458	2.3	1.0	1.6	53.3*	35.4*	44.4*
Pioneer Variety 9452	1.3	1.0	1.2	52.9*	35.2*	44.0*
Asgrow A4539	2.5	1.0	1.8	55.1*	33.0	44.0*
Merschman Houston III	4.6	1.0	2.8	53.2*	34.7	44.0*
Merschman Dallas II	1.9	1.0	1.4	46.5	41.0**	43.8*
Patriot 422	3.4	1.0	2.2	47.9	39.6*	43.8*
MFA Morsoy 9245SCN	2.8	1.0	1.9	50.9*	36.8*	43.8*
Pioneer Variety 9444	3.4	1.0	2.2	55.0*	32.3	43.6*
Bergmann-Taylor BT 484	3.1	1.0	2.0	50.0*	37.1*	43.6*
Merschman Atlanta III	3.5	2.0	2.8	54.1*	32.3	43.2*
Mycogen 470	4.3	1.3	2.8	49.5*	36.8*	43.2*
KS4694	2.6	1.0	1.8	47.4	38.7*	43.0*
JMS 4788	3.8	1.0	2.4	53.9*	31.9	42.9*
Patriot 488	3.4	1.0	2.2	52.6*	32.5	42.6*
MFA Morsoy 8944	4.5	1.0	2.8	51.0*	33.8	42.4*
Calhoun	1.4	1.0	1.2	43.8	39.6*	41.7
ICI D414	3.5	1.0	2.2	50.2*	33.2	41.7
Dekalb CX404	3.5	1.0	2.2	49.5*	33.5	41.5
Stine 4340	4.7	1.3	3.0	42.6	40.2*	41.4
Stressland	3.3	1.0	2.2	48.4	34.5	41.4

TABLE 7. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Marshall	High Hill	Mean	Marshall	High Hill	Mean
Merschman Norfolk	2.8	1.0	1.9	47.3	35.2*	41.2
Asgrow A4138	4.1	1.3	2.7	48.1	34.0	41.0
Patriot 410	3.6	1.0	2.3	51.9*	30.1	41.0
Merschman Dallas	4.2	1.3	2.8	44.7	37.4*	41.0
Dekalb CX411	2.3	1.0	1.6	56.0*	26.1	41.0
Merschman Norfolk II	2.3	1.0	1.6	47.9	33.5	40.7
MFA Morsoy 9345SCN	5.0	1.3	3.2	48.2	33.2	40.7
Merschman Cleveland III	2.0	1.3	1.6	47.3	33.6	40.4
NeCo 7484	3.0	1.0	2.0	47.4	33.3	40.4
Willcross 9345	3.2	1.3	2.2	48.8*	31.9	40.4
MFA Morsoy 9348	3.2	1.0	2.1	45.8	34.8	40.3
Hyperformer HY 446	2.0	1.0	1.5	46.8	33.6	40.2
MFA Morsoy 8842	2.8	1.3	2.0	48.7*	31.8	40.2
ICI D427	2.0	1.0	1.5	50.2*	30.3	40.2
Dyna-Gro 3400	2.3	1.0	1.6	45.7	34.2	40.0
Merschman Richmond II	5.0	1.3	3.2	47.3	32.2	39.8
Merschman Austin II	3.5	1.7	2.6	44.7	34.8	39.8
Terra TS402	3.7	1.0	2.4	46.8	32.9	39.8
Northrup King S42-60	3.4	1.0	2.2	52.0*	27.7	39.8
MFA Morsoy 9241	1.7	1.0	1.4	48.3	31.0	39.6
NeCo 1300	3.3	1.0	2.2	44.1	33.4	38.8
Kruger K4101+	2.5	1.0	1.8	41.6	33.1	37.4
Hartzler Dependable	3.5	1.3	2.4	46.6	27.8	37.2
Hyperformer HY 498	4.7	1.0	2.8	39.7	30.9	35.3
EXPERIMENTAL VARIETIES						
McAllister Ex 404	3.2	1.0	2.1	51.3*	37.7*	44.5*
NMSB X4307	4.1	1.3	2.7	50.4*	38.3*	44.4*
K1207	4.0	1.3	2.6	48.0	37.8*	42.9*
AVERAGE	3.2	1.1	2.2	49.9	34.8	42.3
L.S.D. AT .05	1.2	0.5	0.5	7.6	5.9	4.8
C.V.%				9.4	10.4	
TRIAL AVERAGE	3.0	1.1	2.0	54.8	30.3	42.5

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding variety in the same maturity group.

NS Not significant at the .05 level.

TABLE 8. Performance of Soybean Varieties evaluated near Garden City (Cass County) on the Bill Cook Farm During 1994 and near Nevada (Vernon County) on the Gilbert Wilson Farm during 1992-93.

Planted: 17 May 1994
 Harvested: 30 Sept., 20 Oct. 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Haig Silt Loam
 Soil Test: pH=6.2, OM=2.9%, P=52, K=230

Fertilizer: N=18; P₂O₅=46; K₂O=60
 Herbicide: Pre: Squadron
 Post: Galaxy
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 140 Eggs / 250cc of Soil
 Growing Season Rainfall: May=1.5, June=5.3, July=2.7, Aug.=3.7, Sept.=5.3, TOTAL=18.5 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-01							
Lynks 5373	9-11	34.9	1.0	48.2**	--	--	--	--
Midland Seeds 8393	9-16	43.4	2.0	47.8	--	--	--	--
Willcross 92-A	9-15	36.7	1.0	47.7	33.1*	55.4*	40.4	45.4
Flyer	9-15	38.2	1.3	47.7	--	55.0*	--	--
Hamilton	9-13	36.5	1.3	47.7	33.8*	51.2	40.8	44.2
Dyna-Gro 3368	9-14	36.2	1.7	47.6	--	--	--	--
Reeds 390	9-15	37.0	1.0	47.2	34.0*	56.3*	40.6	45.8
Pioneer Variety 9392	9-09	37.8	1.0	46.9	29.9	56.8*	38.4	44.5
Corsica	9-13	38.1	1.7	46.5	31.0*	51.4	38.8	43.0
NeCo 7400	9-15	38.0	1.0	46.5	--	--	--	--
Northrup King S39-11	9-15	41.9	1.0	46.4	34.8*	--	40.6	--
Willcross 92-B	9-16	35.4	1.0	46.4	32.7*	53.1*	39.6	44.1
MFA Morsoy 8838	9-13	38.6	1.3	45.8	--	--	--	--
Patriot 395	9-15	36.4	1.0	44.9	--	--	--	--
Golden Harvest H-1388	9-14	37.2	1.3	44.3	32.2*	--	38.3	--
Ciba 3362	9-12	36.5	1.0	43.1	--	--	--	--
Golden Harvest H-1353	9-14	36.6	1.0	42.8	30.9*	57.5*	36.8	43.7
Pioneer Variety 9381	9-07	35.7	1.0	42.7	26.9	57.7**	34.8	42.4
Edison	9-14	35.5	1.0	42.1	32.0*	51.8	37.1	42.0
Hartzler Racer	9-15	42.6	1.3	41.2	--	--	--	--
Charleston	9-08	22.9	1.0	40.7	25.4	56.5*	33.1	40.9
NeCo 7392	9-14	36.5	1.3	39.9	36.3**	--	38.1	--
Terra Torch	9-12	35.3	1.3	39.9	29.4	57.1*	34.7	42.1
Ohio FG2	9-09	35.4	1.3	39.2	--	--	--	--

EXPERIMENTAL VARIETIES

C1832	9-08	37.0	1.7	38.6	--	--	--	--
AVERAGE	9-13	36.8	1.2	44.5	30.9	54.5	37.7	43.3
L.S.D. AT .05	2	2.8	NS	NS	5.5	5.4		
C.V.%	0.4	4.7		11.5	11.0	5.9		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-14							
Stine 4680	9-20	39.2	2.0	57.2**	--	--	--	--
Patriot 410	9-15	41.9	1.2	57.1*	--	--	--	--
HyPerformer HY 446	9-16	45.5	1.5	56.3*	34.0	--	45.2	--
Patriot 488	9-19	42.4	1.4	56.1*	--	--	--	--
Reeds 445	9-18	40.7	1.4	55.6*	37.8*	--	46.7	--
KS4694	9-19	37.5	1.8	55.0*	36.0	--	45.5	--
Lewis 472	9-18	44.6	1.6	54.7*	--	--	--	--
NeCo 1300	9-17	46.9	1.9	54.6*	--	52.1*	--	--
HyPerformer HY 498	10-01	46.2	2.5	53.9*	--	--	--	--
Merschman Norfolk II	9-15	34.8	1.2	53.6*	34.7	--	44.2	--
Stine 4340	9-18	45.0	4.1	53.1*	--	--	--	--
MFA Morsoy 9348	9-18	41.5	1.5	52.8*	--	--	--	--

TABLE 8. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	Dekalb CX445	9-17	44.1	2.7	52.6*	--	--	--
Northrup King S42-60	9-15	38.6	1.0	52.6*	--	--	--	--
Mycogen AG545	9-18	43.4	2.2	52.5*	--	--	--	--
Pioneer Variety 9452	9-17	35.3	1.0	52.4*	--	--	--	--
Asgrow A4415	9-17	46.7	1.0	52.3*	32.4	--	42.3	--
Midland Seeds 8413	9-16	35.3	1.0	52.3*	--	--	--	--
MFA Morsoy 8944	9-18	40.5	1.7	52.0*	34.0	50.3	43.0	45.4
Stressland	9-16	42.7	1.9	51.8*	--	--	--	--
Midland Seeds 8410	9-15	37.2	1.0	51.8*	--	--	--	--
Pioneer Variety 9491	9-22	36.1	1.0	51.8*	39.2*	--	45.5	--
Merschman Dallas II	9-20	31.1	1.0	51.6*	37.9*	--	44.8	--
Dekalb CX404	9-15	36.5	1.0	51.5*	34.9	53.2*	43.2	46.5
Northrup King S46-44	9-19	45.2	1.5	51.2*	35.7	--	43.5	--
Dyna-Gro 3400	9-14	35.7	1.1	51.0*	34.8	--	42.9	--
NeCo 7484	9-17	39.7	1.3	51.0*	--	--	--	--
Patriot 422	9-16	43.7	1.0	50.9*	--	--	--	--
Pioneer Variety 9472	9-18	45.8	2.0	50.4*	--	--	--	--
HyPerformer HY 458	9-15	42.6	1.2	50.2*	--	--	--	--
MFA Morsoy 9345SCN	9-19	45.9	1.7	50.0*	--	53.7*	--	--
Ciba 3474	9-19	40.2	1.6	49.9*	--	--	--	--
Willcross 9447-A	9-19	44.3	1.9	49.8*	--	--	--	--
Pioneer Variety 9451	9-15	42.9	1.3	49.5	35.2	--	42.4	--
Merschman Austin II	9-16	45.9	2.1	49.4	32.3	--	40.8	--
Merschman Atlanta III	9-21	40.3	1.6	49.4	35.4	--	42.4	--
Chesapeake	9-20	41.3	1.8	49.1	33.5	45.9	41.3	42.8
MFA Morsoy 8842	9-15	41.3	1.0	49.1	34.6	53.9*	41.9	45.9
Merschman Houston III	9-19	43.2	2.3	49.0	--	--	--	--
Willcross 9447-B	9-18	43.1	1.7	48.5	--	--	--	--
Terra TS 402	9-13	36.1	1.0	48.3	35.3	52.8*	41.8	45.5
MFA Morsoy 9241	9-15	35.7	1.0	48.1	--	--	--	--
Asgrow A4715	9-18	40.3	1.2	48.1	--	--	--	--
Willcross 9345-A	9-17	43.0	1.7	47.8	--	--	--	--
Crawford	9-20	50.5	3.6	47.8	28.8	46.6	38.3	41.1
Calhoun	9-16	24.9	1.0	47.8	--	--	--	--
MFA Morsoy 9245SCN	9-16	39.9	1.5	47.7	--	--	--	--
NC+ 4A10	9-14	40.3	1.4	47.6	35.1	55.7*	41.4	46.1
Dyna-Gro 3410	9-16	37.1	1.2	47.0	--	--	--	--
Golden Harvest H-1407	9-14	36.1	1.0	46.7	36.1*	56.6**	41.4	46.5
Buckshot 44	10-01	49.0	2.3	45.5	--	--	--	--
Merschman Dallas	9-18	48.2	3.3	45.3	32.0	51.7*	38.7	43.0
Merschman Richmond II	9-12	44.1	2.4	43.4	--	--	--	--
Hartzler Dependable	9-19	40.5	1.1	43.1	--	--	--	--
EXPERIMENTAL VARIETIES								
Terra E474	9-18	40.5	1.5	54.8*	--	--	--	--
NMSB X4017	9-16	37.3	1.5	52.7*	--	--	--	--
KY88-5037	9-18	44.6	2.2	51.0*	--	--	--	--
NMSB X4307	9-15	40.9	2.1	50.9*	--	--	--	--
K1207	9-15	40.5	2.2	49.3	--	--	--	--
AVERAGE	9-17	41.1	1.6	50.4	34.2	51.4	42.3	45.3
L.S.D. AT .05	2	4.6	1.0	7.6	4.4	5.3		
C.V.%	0.4	6.9		9.2	8.0	6.3		
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-29							
Holladay	9-28	36.7	1.3	52.4*	32.7	--	42.6	--
Clifford	10-03	36.3	1.7	49.7*	27.7	--	38.7	--
Essex	10-02	38.3	1.7	47.8*	28.0	48.4	37.9	41.4
Buckshot 55	10-06	45.0	3.0	46.7	--	--	--	--
Northrup King S52-25	9-28	42.0	2.7	45.3	--	--	--	--

TABLE 8. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	Asgrow A5403	9-29	43.3	2.0	45.0	34.1	52.0	39.6
Hufcheson	10-04	37.3	2.3	44.7	33.1	50.1	38.9	42.6
NC+ 5H61	10-03	44.7	1.3	44.0	27.8	46.8	35.9	39.5
HvPerformer HSC 501 Br	9-24	39.0	2.3	42.9	31.7	--	37.3	--
MFA Morsoy 9152SCN	9-29	36.0	1.3	41.5	31.1	58.0*	36.3	43.5
EXPERIMENTAL VARIETIES								
KY88-4080	9-27	39.0	2.7	55.2**	--	--	--	--
6.0 Maturity group Check##	10-07							
AVERAGE	9-30	40.8	2.1	46.6	29.9	51.8	38.4	42.8
L.S.D. AT .05	3	6.1	NS	7.7	3.3	7.0		
C.V.%	0.6	9.4		10.1	6.8	7.4		
TRIAL AVERAGE		39.8	1.6	48.6	32.3	52.3	40.4	44.4

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group check as identified on page 4.

NS Not significant at the .05 level.

TABLE 9. Performance of Soybean Varieties evaluated near Lamar (Barton County) on the Wally Norton Farm during 1992-94.

Planted: 18 May 1994
 Harvested: 29 Sept., 20 Oct. 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=5.7, OM=1.5%, P=71, K=201

Fertilizer: N=150; P₂O₅=75; K₂O=75
 Herbicide: Pre: Lasso + Sencor + Lorox
 Post: Poast
 Irrigation: 0.00 Inches
 Previous Crop: Grain Sorghum

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=2.8, June=3.4, July=6.9, Aug.=7.8, Sept.=7.2, TOTAL=28.1 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-11							
NeCo 7392	9-16	34.5	1.7	47.9**	41.4*	--	44.7	--
Northrup King S39-11	9-16	40.4	2.6	47.5**	39.7	--	43.6	--
Midland Seeds 8393	9-16	40.6	4.8	47.3*	--	--	--	--
Dyna-Gro 3368	9-15	34.5	1.4	47.0*	--	--	--	--
Willcross 92-A	9-16	31.0	1.4	46.8*	40.4*	45.1*	43.6	44.1
Ciba 3362	9-16	34.6	1.5	46.7*	--	--	--	--
MFA Morsoy 8838	9-14	38.7	2.1	46.6*	--	--	--	--
Hamilton	9-18	35.9	2.4	46.6*	39.8*	42.4	43.2	42.9
Golden Harvest H-1353	9-15	35.4	1.3	46.0*	33.5	45.1*	39.8	41.5
Golden Harvest H-1388	9-16	37.5	2.1	45.4*	39.2	--	42.3	--
Reeds 390	9-16	35.6	1.4	45.3*	40.5*	40.3	42.9	42.0
Terra Torch	9-16	35.4	1.2	44.6*	37.3	49.1*	41.0	43.7
Pioneer Variety 9392	9-15	34.8	1.1	44.3*	43.7*	38.8	44.0	42.3
Willcross 92-B	9-16	31.9	1.3	43.5*	37.2	52.8**	40.4	44.5
NeCo 7400	9-15	34.5	2.0	43.3*	--	--	--	--
Lynks 5373	9-15	35.6	1.7	43.0*	--	--	--	--
Flyer	9-15	35.9	1.6	42.9*	--	35.1	--	--
Hartzler Racer	9-16	42.2	2.0	42.7	--	--	--	--
Patriot 395	9-14	33.0	1.2	41.9	--	--	--	--
Corsica	9-16	35.7	2.0	40.8	39.7	45.2*	40.3	41.9
Edison	9-15	33.9	1.2	40.4	33.9	42.1	37.2	38.8
Pioneer Variety 9381	9-16	32.4	1.4	39.7	38.9	42.2	39.3	40.3
Charleston	9-15	17.1	1.0	39.3	34.3	28.1	36.8	33.9
Ohio FG2	9-12	33.6	2.0	36.6	--	--	--	--
EXPERIMENTAL VARIETIES								
C1832	9-15	34.5	1.2	42.7	--	--	--	--
AVERAGE	9-15	34.8	1.7	44.0	38.6	42.6	41.3	41.7
L.S.D. AT .05	2	3.4	0.9	5.0	4.5	8.0		
C.V.%	0.5	6.0		7.0	7.3	11.2		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-21							
Northrup King S46-44	9-25	43.1	4.2	56.7**	45.5*	--	51.1	--
Willcross 9447-A	9-28	41.1	4.2	55.2*	--	--	--	--
Patriot 488	9-27	42.9	3.9	55.0*	--	--	--	--
Asgrow A4715	9-23	39.8	2.2	54.6*	--	--	--	--
Merschman Houston III	9-27	40.1	3.9	54.1*	--	--	--	--
Dyna-Gro 3410	9-24	36.3	1.3	53.5*	--	--	--	--
Reeds 445	9-27	43.0	4.2	52.9*	44.6*	--	48.8	--
HyPerformer HY 458	9-23	43.1	1.7	52.9*	--	--	--	--
MFA Morsoy 9345SCN	9-27	47.7	5.0	52.7*	--	41.6*	--	--
MFA Morsoy 9348	9-26	41.5	4.7	52.6*	--	--	--	--
Ciba 3474	9-25	42.2	4.6	52.6*	--	--	--	--
Stine 4680	10-01	42.0	5.0	52.4*	--	--	--	--
Willcross 9447-B	9-28	43.3	4.0	52.0*	--	--	--	--

TABLE 9. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
NeCo 7484	9-28	43.5	4.6	51.7*	--	--	--	--
Midland Seeds 8413	9-25	35.1	1.0	51.3*	--	--	--	--
Northrup King S42-60	9-24	37.0	2.5	50.7*	--	--	--	--
Lewis 472	9-27	41.7	2.8	50.0*	--	--	--	--
Merschman Atlanta III	9-29	42.1	4.9	49.6*	36.2	--	42.9	--
Dyna-Gro 3400	9-23	34.0	1.0	49.6*	45.8**	--	47.7	--
Mycogen AG545	9-26	41.2	4.7	49.5	--	--	--	--
Willcross 9345-A	9-25	38.4	3.5	49.4	--	--	--	--
Pioneer Variety 9451	9-25	41.8	4.9	49.0	39.8	--	44.4	--
Merschman Austin II	9-24	45.2	4.4	48.8	37.5	--	43.2	--
Stine 4340	9-25	37.7	3.5	48.3	--	--	--	--
MFA Morsoy 9245SCN	9-26	40.6	2.8	48.3	--	--	--	--
Pioneer Variety 9452	9-24	31.3	1.2	47.3	--	--	--	--
Patriot 422	9-25	38.3	1.9	46.8	--	--	--	--
MFA Morsoy 8944	9-25	38.4	3.1	46.8	35.0	45.2*	40.9	42.3
Terra TS402	9-24	32.1	1.3	46.7	40.8*	39.4	43.8	42.3
Merschman Dallas II	9-26	26.1	1.0	46.6	23.6	--	35.1	--
KS4694	9-24	33.8	2.3	46.6	40.1	--	43.4	--
Dekalb CX445	9-24	40.9	2.4	46.5	--	--	--	--
Merschman Dallas	9-27	47.3	3.8	46.4	38.7	49.3*	42.6	44.8
MFA Morsoy 8842	9-25	41.6	2.9	46.0	45.4*	44.5*	45.7	45.3
Pioneer Variety 9491	9-26	31.0	1.1	46.0	32.9	--	39.5	--
Hartzler Dependable	9-25	37.4	2.7	45.7	--	--	--	--
Pioneer Variety 9472	9-26	39.0	4.8	45.5	--	--	--	--
Merschman Richmond II	9-24	38.8	4.4	45.3	--	--	--	--
Midland Seeds 8410	9-24	35.0	1.4	45.0	--	--	--	--
NeCo 1300	9-27	44.0	3.4	44.9	--	43.9*	--	--
Dekalb CX404	9-24	35.2	1.3	44.4	40.9*	41.3*	42.7	42.2
Asgrow A4415	9-24	43.2	1.3	44.2	42.0*	--	43.1	--
Stressland	9-24	39.5	1.8	44.0	--	--	--	--
NC+ 4A10	9-24	32.1	1.6	43.7	42.1*	45.2*	42.9	43.7
HyPerformer HY 446	9-26	40.9	2.2	43.6	39.7	--	41.7	--
Crawford	9-26	43.5	4.4	42.8	32.5	48.1*	37.7	41.1
Calhoun	9-24	25.1	1.0	42.6	--	--	--	--
Golden Harvest H-1407	9-24	35.5	1.1	42.5	38.5	37.7	40.5	39.6
Patriot 410	9-25	41.5	1.6	42.5	--	--	--	--
MFA Morsoy 9241	9-24	32.9	1.4	42.4	--	--	--	--
Merschman Norfolk II	9-24	32.9	1.1	41.1	44.7*	--	42.9	--
Chesapeake	9-27	38.9	3.8	41.0	35.9	36.7	38.5	37.9
Buckshot 44	10-02	47.5	4.2	39.1	--	--	--	--
HyPerformer HY 498	10-01	43.7	3.9	38.1	--	--	--	--
EXPERIMENTAL VARIETIES								
Terra E474	9-27	36.7	4.1	50.0*	--	--	--	--
K1207	9-25	40.9	4.3	48.5	--	--	--	--
NMSB X4017	9-24	35.7	3.1	46.5	--	--	--	--
NMSB X4307	9-24	39.0	4.4	46.0	--	--	--	--
KY88-5037	9-26	43.4	3.1	45.9	--	--	--	--
AVERAGE	9-26	39.1	3.0	47.7	38.6	42.0	43.2	42.8
L.S.D. AT .05	2	4.1	1.4	7.1	5.3	8.1		
C.V. %	0.4	6.4		9.2	8.5	11.6		

MATURITY GROUP 5**COMMERCIAL VARIETIES**

5.0 Maturity Group Check##	10-01							
HyPerformer HSC 501 Br	10-04	32.7	1.7	48.0**	42.2*	--	45.1	--
Asgrow A5403	10-07	35.0	2.4	46.9*	42.6*	54.7**	44.8	48.1
MFA Morsoy 9152SCN	10-07	31.3	1.7	45.3*	43.9**	50.4*	44.6	46.5
Northrup King S52-25	10-05	34.7	2.3	44.3*	--	--	--	--
Hutcheson	10-07	38.7	2.9	43.2	41.7*	43.6	42.5	42.8
Holladay	10-06	33.3	1.4	43.0	39.6*	--	41.3	--
Buckshot 55	10-06	33.0	4.3	41.9	--	--	--	--

TABLE 9. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	Essex	10-06	33.7	1.7	39.3	34.7	40.0	37.0
Clifford	10-06	34.7	2.9	39.0	36.9	--	38.0	--
NC+ 5H61	10-07	35.7	2.3	38.1	39.4*	46.2	38.8	41.2
EXPERIMENTAL VARIETIES								
KY88-4080	10-03	27.0	1.0	45.3*	--	--	--	--
6.0 Maturity Group Check##	10-09							
AVERAGE	10-06	34.0	2.2	43.1	38.2	47.7	40.7	43.0
L.S.D. AT .05	2	4.1	1.0	4.5	6.4	6.7		
C.V.%	0.4	7.4		6.4	10.2	8.1		
TRIAL AVERAGE		37.3	2.6	46.2	38.5	43.1	42.4	42.6

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group check as identified on page 4.

TABLE 10. Performance of Soybean Varieties evaluated at two Southwest Missouri locations (Garden City and Lamar) during 1994.

Garden City
 Planted: 17 May 1994
 Harvested: 30 Sept., 20 Oct. 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.
 Soil Type: Haig Silt Loam
 Previous Crop: Soybeans
 SCN Population at Planting: 140 Eggs
 Growing Season Moisture: 18.5 Inches

Lamar
 Planted: 18 May 1994
 Harvested: 29 Sept., 20 Oct. 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.
 Soil Type: Parsons Silt Loam
 Previous Crop: Grain Sorghum
 SCN Population at Planting: 0 Eggs
 Growing Season Moisture: 28.1 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Gardn Cty	Lamar	Mean

MATURITY GROUP 3

COMMERCIAL VARIETIES

Midland Seeds 8393	2.0	4.8	3.4	47.8	47.3*	47.6**
Dyna-Gro 3368	1.7	1.4	1.6	47.6	47.0*	47.3*
Hamilton	1.3	2.4	1.8	47.7	46.6*	47.2*
Willcross 92-A	1.0	1.4	1.2	47.7	46.8*	47.2*
Northrup King S39-11	1.0	2.6	1.8	46.4	47.5*	47.0*
MFA Morsoy 8838	1.3	2.1	1.7	45.8	46.6*	46.2*
Reeds 390	1.0	1.4	1.2	47.2	45.3*	46.2*
Lynks 5373	1.0	1.7	1.4	48.2**	43.0*	45.6*
Pioneer Variety 9392	1.0	1.1	1.0	46.9	44.3*	45.6*
Flyer	1.3	1.6	1.4	47.7	42.9*	45.3*
Willcross 92-B	1.0	1.3	1.2	46.4	43.5*	45.0*
Ciba 3362	1.0	1.5	1.2	43.1	46.7*	44.9*
NeCo 7400	1.0	2.0	1.5	46.5	43.3*	44.9*
Golden Harvest H-1388	1.3	2.1	1.7	44.3	45.4*	44.8*
Golden Harvest H-1353	1.0	1.3	1.2	42.8	46.0*	44.4*
NeCo 7392	1.3	1.7	1.5	39.9	47.9**	43.9*
Corsica	1.7	2.0	1.8	46.5	40.8	43.6*
Patriot 395	1.0	1.2	1.1	44.9	41.9	43.4*
Terra Torch	1.3	1.2	1.2	39.9	44.6*	42.2*
Hartzler Racer	1.3	2.0	1.6	41.2	42.7	42.0
Edison	1.0	1.2	1.1	42.1	40.4	41.2
Pioneer Variety 9381	1.0	1.4	1.2	42.7	39.7	41.2
Charleston	1.0	1.0	1.0	40.7	39.3	40.0
Ohio FG2	1.3	2.0	1.6	39.2	36.6	37.9

EXPERIMENTAL VARIETIES

C1832	1.7	1.2	1.4	38.6	42.7	40.6
AVERAGE	1.2	1.7	1.5	44.5	44.0	44.2
L.S.D. AT .05	NS	0.9	0.4	NS	5.0	3.9
C.V.%				11.5	7.0	

MATURITY GROUP 4

COMMERCIAL VARIETIES

Patriot 488	1.4	3.9	2.6	56.1*	55.0*	55.6**
Stine 4680	2.0	5.0	3.5	57.2**	52.4*	54.8*
Reeds 445	1.4	4.2	2.8	55.6*	52.9*	54.2*
Northrup King S46-44	1.5	4.2	2.8	51.2*	56.7**	54.0*
MFA Morsoy 9348	1.5	4.7	3.1	52.8*	52.6*	52.7*
Willcross 9447-A	1.9	4.2	3.0	49.8*	55.2*	52.5*
Lewis 472	1.6	2.8	2.2	54.7*	50.0*	52.4*
Midland Seeds 8413	1.0	1.0	1.0	52.3*	51.3*	51.8*
Merschman Houston III	2.3	3.9	3.1	49.0	54.1*	51.6*
HyPerformer HY 458	1.2	1.7	1.4	50.2*	52.9*	51.6*
Northrup King S42-60	1.0	2.5	1.8	52.6*	50.7*	51.6*
Asgrow A4713	1.2	2.2	1.7	48.1	54.6*	51.4*

TABLE 10. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Gardn Cty	Lamar	Mean
MFA Morsoy 9345SCN	1.7	5.0	3.4	50.0*	52.7*	51.4*
Ciba 3474	1.6	4.6	3.1	49.9*	52.6*	51.2*
Mycogen AG545	2.2	4.7	3.4	52.5*	49.5	51.0*
KS4694	1.8	2.3	2.0	55.0*	46.6	50.8*
Stine 4340	4.1	3.5	3.8	53.1*	48.3	50.7*
Dyna-Gro 3400	1.1	1.0	1.0	51.0*	49.6*	50.3*
Willcross 9447-B	1.7	4.0	2.8	48.5	52.0*	50.2*
Dyna-Gro 3410	1.2	1.3	1.2	47.0	53.5*	50.2*
HyPerformer HY 446	1.5	2.2	1.8	56.3*	43.6	50.0
Pioneer Variety 9452	1.0	1.2	1.1	52.4*	47.3	49.8
NeCo 1300	1.9	3.4	2.6	54.6*	44.9	49.8
Patriot 410	1.2	1.6	1.4	57.1*	42.5	49.8
Dekalb CX445	2.7	2.4	2.6	52.6*	46.5	49.6
Merschman Atlanta III	1.6	4.9	3.2	49.4	49.6*	49.5
MFA Morsoy 8944	1.7	3.1	2.4	52.0*	46.8	49.4
Pioneer Variety 9451	1.3	4.9	3.1	49.5	49.0	49.2
Merschman Dallas II	1.0	1.0	1.0	51.6*	46.6	49.1
Merschman Austin II	2.1	4.4	3.2	49.4	48.8	49.1
Pioneer Variety 9491	1.0	1.1	1.0	51.8*	46.0	48.9
Patriot 422	1.0	1.9	1.4	50.9*	46.8	48.8
Willcross 9345-A	1.7	3.5	2.6	47.8	49.4	48.6
Midland Seeds 8410	1.0	1.4	1.2	51.8*	45.0	48.4
Asgrow A4415	1.0	1.3	1.2	52.3*	44.2	48.2
MFA Morsoy 9245SCN	1.5	2.8	2.2	47.7	48.3	48.0
Dekalb CX404	1.0	1.3	1.2	51.5*	44.4	48.0
Pioneer Variety 9472	2.0	4.8	3.4	50.4*	45.5	48.0
Stressland	1.9	1.8	1.8	51.8*	44.0	47.9
MFA Morsoy 8842	1.0	2.9	2.0	49.1	46.0	47.6
Terra TS402	1.0	1.3	1.2	48.3	46.7	47.5
Merschman Norfolk II	1.2	1.1	1.2	53.6*	41.1	47.4
NeCo 7484	1.3	2.0	1.6	51.0*	43.3	47.2
HyPerformer HY 498	2.5	3.9	3.2	53.9*	38.1	46.0
Merschman Dallas	3.3	3.8	3.6	45.3	46.4	45.8
NC+ 4A10	1.4	1.6	1.5	47.6	43.7	45.6
Crawford	3.6	4.4	4.0	47.8	42.8	45.3
Calhoun	1.0	1.0	1.0	47.8	42.6	45.2
MFA Morsoy 9241	1.0	1.4	1.2	48.1	42.4	45.2
Chesapeake	1.8	3.8	2.8	49.1	41.0	45.0
Golden Harvest H-1407	1.0	1.1	1.0	46.7	42.5	44.6
Merschman Richmond II	2.4	4.4	3.4	43.4	45.3	44.4
Hartzler Dependable	1.1	2.7	1.9	43.1	45.7	44.4
Buckshot 44	2.3	4.2	3.2	45.5	39.1	42.3
EXPERIMENTAL VARIETIES						
Terra E474	1.5	4.1	2.8	54.8*	50.0*	52.4*
NMSB X4017	1.5	3.1	2.3	52.7*	46.5	49.6
K1207	2.2	4.3	3.2	49.3	48.5	48.9
NMSB X4307	2.1	4.4	3.2	50.9*	46.0	48.4
KY88-5037	2.2	3.1	2.6	51.0*	45.9	48.4
AVERAGE	1.6	3.0	2.3	50.8	47.6	49.2
L.S.D. AT .05	1.0	1.4	0.3	7.6	7.1	5.5
C.V. %				9.2	9.2	
MATURITY GROUP 5						
COMMERCIAL VARIETIES						
Holladay	1.3	1.4	1.4	52.4*	43.0	47.7*
Asgrow A5403	2.0	2.4	2.2	45.0	46.9*	46.0*
HyPerformer HSC 501 Br	2.3	1.7	2.0	42.9	48.0**	45.4*
Northrup King S52-25	2.7	2.3	2.5	45.3	44.3*	44.8
Clifford	1.7	2.9	2.3	49.7*	39.0	44.4
Buckshot 55	3.0	4.3	3.6	46.7	41.9	44.3
Hutcheson	2.3	2.9	2.6	44.7	43.2	44.0

TABLE 10. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Gardn Cty	Lamar	Mean
Essex	1.7	1.7	1.7	47.8*	39.3	43.6
MFA Morsoy 9152SCN	1.3	1.7	1.5	41.5	45.3*	43.4
NC+ 5H61	1.3	2.3	1.8	44.0	38.1	41.0
EXPERIMENTAL VARIETIES						
KY88-4080	2.7	1.0	1.8	55.2**	45.3*	50.2**
AVERAGE	2.1	2.2	2.1	46.8	43.1	45.0
L.S.D. AT .05	NS	1.0	0.4	7.7	4.5	4.9
C.V. %				10.1	6.4	
TRIAL AVERAGE	1.6	2.6	2.0	48.6	46.2	47.4

** Highest yielding hybrid in the test.

* Yield not significantly less than the highest yielding variety in the same maturity group.

NS Not significant at the .05 level.

TABLE 11. Performance of Soybean Varieties evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1992-94.

Planted: 18 May 1994
 Harvested: 26 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=5.6, OM=1.8%, P=73, K=245

Fertilizer: N=0; P₂O₅=46; K₂O=90
 Herbicide: Pre: Squadron
 Post: None
 Irrigation: 2.0 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: May=2.6, June=5.5, July=3.0, Aug.=3.7, Sept.=2.5, TOTAL=15.3 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-07							
Dekalb CX411	9-16	34.9	3.2	65.2**	--	--	--	--
Southern Cross Joshua	9-23	42.6	4.3	63.7*	--	--	--	--
Dekalb CX434	9-15	39.2	3.0	63.1*	--	--	--	--
Jader 4730	9-20	44.1	4.0	62.5*	50.9*	--	56.7	--
Calhoun	9-12	24.7	1.3	61.1*	--	--	--	--
Lynks 5482	9-23	41.4	3.7	61.1*	--	--	--	--
Hartz Variety H4994	10-04	32.6	3.3	58.8*	--	--	--	--
Asgrow A4539	9-22	39.8	2.3	56.2*	49.6*	--	52.9	--
Deltapine DP 3456	9-23	41.8	2.8	55.8*	46.8	55.7	51.3	52.8
Dekalb CX445	9-20	41.7	4.0	55.1	--	--	--	--
Northrup King S42-60	9-12	32.7	4.3	54.6	--	--	--	--
Pioneer Variety 9442	9-17	42.2	3.8	51.8	51.6*	58.1	51.7	53.8
Terra TS402	9-15	32.1	4.2	51.7	47.7*	--	49.7	--
MFA Morsoy 9348	9-19	40.0	4.3	51.6	--	--	--	--
Deltapine DP 3478	9-23	41.9	4.3	51.0	50.6*	67.3**	50.8	56.3
KS4694	9-23	40.2	2.3	50.8	51.8*	--	51.3	--
Pioneer Variety 9472	9-15	43.5	5.0	50.8	--	--	--	--
Pioneer Variety 9444	9-12	35.7	3.2	50.3	--	--	--	--
AgraTech FFR 493	9-23	40.2	3.3	49.9	54.0*	--	52.0	--
Northrup King S46-44	9-16	43.1	4.5	49.4	54.8**	53.8	52.1	52.7
HyPerformer HY 458	9-11	41.9	2.8	49.4	--	--	--	--
Stressland	9-12	37.1	5.0	47.1	--	--	--	--
Asgrow A4715	9-22	43.8	2.3	46.8	48.0*	62.3*	47.4	52.4
Pioneer Variety 9452	9-16	35.7	4.2	46.2	--	--	--	--
Pioneer Variety 9451	9-16	44.9	5.0	45.3	51.1*	--	48.2	--
Dekalb CX478	9-16	39.5	4.7	45.1	--	--	--	--
Chesapeake	9-22	36.6	3.8	43.6	46.4	--	45.0	--
HyPerformer HY 498	10-04	47.4	4.2	42.2	41.8	--	42.0	--
Buckshot 44	10-04	43.9	3.8	41.2	--	--	--	--
MFA Morsoy 9345SCN	9-22	37.9	5.0	39.4	--	56.3	--	--
AgraTech FFR 474	9-19	44.0	5.0	36.2	--	--	--	--
Hartz Variety H4464	9-19	40.0	4.7	35.1	34.2	57.6	34.7	42.3
Dyna-Gro 3495	10-04	44.3	4.7	29.1	36.8	--	33.0	--
EXPERIMENTAL VARIETIES								
Terra E474	9-22	43.7	4.7	59.9*	--	--	--	--
KY88-5037	9-25	41.2	3.7	56.1*	--	--	--	--
Jader JEX 3431	9-23	41.5	4.3	48.8	--	--	--	--
HyPerformer HB4-X497	9-22	39.7	4.7	44.8	--	--	--	--
HyPerformer HB4-X434	9-22	44.5	3.0	44.6	--	--	--	--
HyPerformer HB4-X463	9-22	44.4	4.7	44.5	--	--	--	--
K1207	9-15	39.7	5.0	42.8	--	--	--	--
Riverside 91-46	10-04	37.3	3.5	40.2	42.7	54.8	41.5	45.9
HyPerformer HB4-X485	9-23	45.8	5.0	36.4	--	--	--	--
AVERAGE	9-21	40.2	3.9	49.5	45.8	53.6	47.6	49.6
L.S.D. AT .05	6	7.4	1.4	9.9	7.4	5.8		
C.V. %	1.4	11.3		12.4	10.0	6.6		

TABLE 11. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 5							
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-24							
Asgrow A5843	10-10	40.3	2.5	50.9*	--	--	--	--
Clifford	10-07	37.3	3.3	50.8*	46.9*	--	48.8	--
Asgrow A5885	10-08	37.0	4.0	50.4*	--	--	--	--
Pioneer Variety 9584	10-08	36.3	4.3	49.9*	48.7*	61.5*	49.3	53.4
MFA Morsoy 9152SCN	10-07	31.7	2.3	49.4*	41.9	61.6**	45.7	51.0
Delta King 5475	10-06	35.3	4.0	48.5*	--	--	--	--
Jader 5131	10-07	36.7	3.3	48.5*	47.0*	--	47.8	--
Essex	10-06	34.0	3.3	47.3*	35.9	47.3	41.6	43.5
Holladay	10-06	32.7	3.5	46.9*	52.2**	--	49.6	--
Pioneer Variety 9551	10-07	40.0	3.5	45.8*	50.2*	59.8*	48.0	51.9
Hartz Variety H5218	10-08	40.3	4.0	44.9*	--	--	--	--
Hartz Variety H5042	10-08	46.3	4.0	44.8*	39.7	--	42.3	--
HyPerformer HSC 501 Br	9-27	37.7	2.8	44.7*	42.4	57.6*	43.6	48.2
Hutcheson	10-08	39.7	3.2	44.6*	42.8*	52.3	43.7	46.6
Deltapine 415	10-07	40.3	3.3	44.2*	45.5*	58.5*	44.9	49.4
Asgrow A5560	10-07	35.7	4.0	43.7*	46.5*	61.2*	45.1	50.5
Delta King 5850	10-06	35.0	4.0	43.1*	--	--	--	--
Hartz 5164	10-09	37.7	4.0	42.7	41.4	57.5*	42.1	47.2
AgraTech FFR 563	10-09	41.7	4.0	42.1	41.7	--	41.9	--
HyPerformer HY 574	10-08	37.0	3.1	41.8	--	--	--	--
Northrup King S57-11	10-07	38.3	4.0	41.6	--	--	--	--
AgraTech AT 555	10-08	40.3	3.2	41.5	42.9*	55.0*	42.2	46.5
Pioneer Variety 9592	10-11	42.0	3.7	41.5	43.0*	60.5*	42.3	48.3
Buckshot 55	10-09	32.3	4.3	41.5	--	--	--	--
Hartz Variety H5566	10-07	32.7	4.0	41.4	39.9	58.9*	40.7	46.7
Hartz Variety H5350	10-07	36.7	4.0	41.3	43.2*	57.2*	42.3	47.2
Asgrow A5112	9-26	30.0	2.0	40.9	42.3	--	41.6	--
Pioneer Variety 9521	9-26	39.7	4.3	40.1	45.7*	54.3*	42.9	46.7
Terra-Vig 5452	10-07	40.7	4.3	40.1	--	56.6*	--	--
AgraTech FFR 542	10-09	41.3	3.7	38.6	--	--	--	--
Capehart Stone	10-08	40.7	3.8	38.4	37.4	45.6	37.9	40.5
Riverside Robin-5	10-11	36.3	3.7	38.3	--	--	--	--
Terra-Vig 5693	10-11	39.0	3.8	37.9	40.9	--	39.4	--
Hartz Variety H5810	10-08	37.7	4.0	37.5	50.4*	57.6*	44.0	48.5
Hartz Variety H5545	10-08	34.7	4.0	36.8	48.2*	--	42.5	--
Riverside 499	9-29	49.0	4.7	36.7	37.3	45.8	37.0	39.9
Dyna-Gro 3576	10-08	34.0	4.5	36.3	36.2	--	36.3	--
Northrup King S52-25	10-01	38.3	3.0	36.0	--	--	--	--
Terra-Vig 5676	10-08	37.3	4.0	33.7	--	--	--	--
AgraTech FFR 514	9-22	39.0	4.0	28.1	--	--	--	--
EXPERIMENTAL VARIETIES								
KY88-4080	9-23	28.3	1.7	53.3**	--	--	--	--
HyPerformer HB4-X563	10-02	39.7	3.5	40.4	--	--	--	--
HyPerformer HB4-X524	10-04	43.7	3.8	38.9	--	--	--	--
HyPerformer HB4-X521	10-07	33.3	4.0	38.0	--	--	--	--
Northrup King X9459	10-09	40.3	2.2	29.2	--	--	--	--
6.0 Maturity Group Check##	10-12							
AVERAGE	10-05	37.8	3.7	41.5	42.1	53.3	41.8	45.6
L.S.D. AT .05	4	5.7	0.9	10.2	9.5	8.6		
C.V. %	1.0	9.4		15.0	13.8	10.0		
TRIAL AVERAGE		38.9	3.8	45.7	43.8	53.4	44.8	47.6

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group checks as identified on page 4.

TABLE 12. Performance of Soybean Varieties evaluated on a Loam Soil near Portageville (Pemiscott County) on the Delta Research Center during 1992-94.

Planted: 10 May 1994
 Harvested: 10 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tiptonville Silt Loam
 Soil Test: pH=6.5, OM=1.7%, P=84, K=287

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter, Command
 Post: Blazer + Basagran
 Irrigation: 0.0 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 5,600 Eggs / 250cc of Soil
 Growing Season Rainfall: May=3.2, June=6.8, July=2.5, Aug.=0.8, Sept.=3.1, TOTAL=16.4 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 4							
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-06							
Dekalb CX411	9-07	33.0	1.8	50.2**	--	--	--	--
Hartz Variety H4994	9-22	34.3	1.6	48.9*	--	--	--	--
Dekalb CX434	9-08	34.7	1.8	48.0*	--	--	--	--
Deltapine DP 3478	9-16	36.7	1.8	45.7*	45.8	62.4**	45.8	51.3
KS4694	9-11	35.3	1.8	45.2*	47.0	--	46.1	--
Northrup King S42-60	9-07	31.7	1.5	44.8*	--	--	--	--
HyPerformer HY 458	9-07	39.7	2.2	44.7*	--	--	--	--
Stressland	9-07	36.3	1.5	44.4*	--	--	--	--
Jader 4730	9-20	34.3	2.0	44.3*	46.0	--	45.2	--
Asgrow A4539	9-09	35.0	1.5	44.0*	48.7*	--	46.4	--
Pioneer Variety 9444	9-07	32.3	1.5	44.0*	--	--	--	--
Pioneer Variety 9452	9-07	28.0	1.5	43.5*	--	--	--	--
Lynks 5482	9-18	35.0	1.8	42.5	--	--	--	--
Deltapine DP 3456	9-13	36.0	2.2	42.0	45.9	45.3	44.0	44.4
MFA Morsoy 9348	9-14	36.7	1.6	41.9	--	--	--	--
Pioneer Variety 9442	9-07	33.7	1.5	41.9	51.3*	44.1	46.6	45.8
Pioneer Variety 9472	9-08	38.0	2.0	41.7	--	--	--	--
Pioneer Variety 9451	9-07	34.7	1.5	41.5	48.8*	--	45.2	--
Northrup King S46-44	9-08	34.0	1.5	41.3	52.4*	45.3	46.8	46.3
Dekalb CX445	9-07	35.7	1.7	41.0	--	--	--	--
AgraTech FFR 474	9-13	37.7	1.8	40.8	--	--	--	--
Dekalb CX478	9-09	36.7	1.5	40.5	--	--	--	--
AgraTech FFR 493	9-13	36.7	1.4	40.2	53.9*	--	47.1	--
Southern Cross Joshua	9-16	39.0	1.7	40.1	--	--	--	--
Asgrow A4715	9-13	36.0	1.7	39.7	46.0	52.8	42.9	46.2
Terra TS402	9-07	32.3	1.5	38.7	40.3	--	39.5	--
HyPerformer HY 498	10-03	46.0	2.0	38.4	41.0	--	39.7	--
Calhoun	9-01	32.3	1.2	38.3	--	--	--	--
MFA Morsoy 9345SCN	9-13	33.3	1.8	37.9	--	58.7*	--	--
Dyna-Gro 3495	10-03	48.0	2.0	37.6	39.6	--	38.6	--
Chesapeake	9-13	39.3	1.8	37.0	45.7	--	41.4	--
Buckshot 44	9-26	52.3	1.8	33.8	--	--	--	--
Hartz Variety H4464	9-14	43.7	2.0	28.5	40.5	45.0	34.5	38.0
EXPERIMENTAL VARIETIES								
Terra E474	9-13	35.3	1.7	48.8*	--	--	--	--
HyPerformer HB4-X434	9-12	35.3	1.6	43.8*	--	--	--	--
KY88-5037	9-12	38.3	1.5	42.6*	--	--	--	--
Jader JEX 3431	9-11	35.0	1.5	42.1	--	--	--	--
HyPerformer HB4-X497	9-12	33.7	1.5	41.8	--	--	--	--
HyPerformer HB4-X463	9-13	45.3	1.5	39.0	--	--	--	--
K1207	9-07	34.0	1.7	37.7	--	--	--	--
HyPerformer HB4-X485	9-14	41.7	1.6	35.6	--	--	--	--
Riverside 91-46	10-01	41.3	2.2	30.1	38.8	32.4	34.5	33.8
AVERAGE	9-13	36.9	1.7	41.3	45.8	46.9	43.6	44.7
L.S.D. AT .05	4	8.4	0.5	7.6	6.3	8.3		
C.V. %	1.0	13.9		11.3	8.5	21.0		

TABLE 12. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 5							
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-30							
Hartz Variety H5350	10-06	25.3	1.5	58.6*	56.2*	46.7*	57.4	53.8
Riverside Robin-5	10-07	26.0	1.4	56.8*	--	--	--	--
Clifford	9-27	30.0	1.4	56.5*	45.4	--	51.0	--
Asgrow A5885	10-05	38.0	1.5	55.9*	--	--	--	--
Hartz Variety H5218	10-05	33.7	1.3	55.2*	--	--	--	--
Pioneer Variety 9521	9-22	30.7	1.4	53.9*	51.0*	37.7	52.5	47.5
AgraTech FFR 563	10-05	36.3	1.4	53.8*	51.3*	--	52.6	--
Hartz Variety H5042	10-03	39.7	1.5	52.9*	48.2	--	50.6	--
Holladay	9-24	25.7	1.4	52.6*	50.9*	--	51.8	--
Asgrow A5843	10-02	32.7	1.4	52.2*	--	--	--	--
Hartz 5164	10-06	35.0	1.5	51.9*	46.6	54.3**	49.3	50.9
Pioneer Variety 9584	10-05	32.0	1.4	51.8*	47.5	46.9*	49.7	48.7
MFA Morsoy 9152SCN	9-25	28.7	1.5	51.6*	46.0	39.2	48.8	45.6
Asgrow A5560	9-26	30.7	1.4	51.6*	42.2	50.9*	46.9	48.2
Delta King 5475	10-06	28.3	1.4	51.5*	--	--	--	--
Hartz Variety H5566	10-05	34.0	1.5	51.4*	53.3*	35.6	52.4	46.8
HyPerformer HY 574	10-06	37.0	2.1	51.0*	--	--	--	--
Terra-Vig 5676	10-02	30.7	1.6	50.8*	--	--	--	--
Pioneer Variety 9551	9-25	32.0	1.4	50.5	52.1*	43.7	51.3	48.8
Terra-Vig 5693	9-28	27.3	1.4	50.5	49.8	--	50.2	--
AgraTech FFR 514	9-23	35.7	1.4	50.2	--	--	--	--
Hartz Variety H5545	10-05	31.3	1.4	49.8	48.2	--	49.0	--
Dyna-Gro 3576	10-06	28.3	1.4	49.4	50.9*	--	50.2	--
AgraTech FFR 542	10-10	31.3	1.4	49.1	--	--	--	--
Asgrow A5112	9-21	26.3	1.2	48.9	52.9*	--	50.9	--
Northrup King S57-11	10-03	33.7	1.4	48.5	--	--	--	--
Hutcheson	10-06	32.3	1.7	48.3	54.6*	47.3*	51.5	50.1
HyPerformer HSC 501 Br	9-19	26.3	1.3	47.4	59.2**	38.2	53.3	48.3
Buckshot 55	10-06	28.0	1.5	47.2	--	--	--	--
Deltapine 415	10-03	35.7	1.6	46.6	49.0	30.8	47.8	42.1
Terra-Vig 5452	10-05	33.7	1.5	46.5	--	39.9	--	--
AgraTech AT 555	10-06	35.0	1.5	46.2	48.2	50.0*	47.2	48.1
Delta King 5850	10-03	33.3	1.8	46.0	--	--	--	--
Northrup King S52-25	9-27	27.3	1.4	46.0	--	--	--	--
Pioneer Variety 9592	10-07	40.7	1.4	45.7	51.2*	46.4*	48.5	47.8
Jader 5131	9-22	27.3	1.5	44.5	52.8*	--	48.7	--
Hartz Variety H5810	10-06	29.0	1.4	43.4	55.3*	46.0*	49.3	48.2
Capehart Stone	10-07	39.7	1.5	41.5	42.7	31.0	42.1	38.4
Essex	9-22	28.0	1.5	41.1	48.0	34.4	44.6	41.2
Riverside 499	9-25	46.0	2.2	38.9	42.4	34.7	40.7	38.7
EXPERIMENTAL VARIETIES								
Northrup King X9459	10-02	35.3	1.4	58.8**	--	--	--	--
HyPerformer HB4-X563	10-05	28.3	1.4	51.7*	--	--	--	--
HyPerformer HB4-X521	9-23	28.0	1.4	50.3	--	--	--	--
KY88-4080	9-21	22.0	1.0	50.2	--	--	--	--
HyPerformer HB4-X524	9-22	35.3	1.6	38.0	--	--	--	--
6.0 Maturity Group Check##	10-13							
AVERAGE	9-30	31.9	1.5	49.2	49.3	39.8	49.2	46.1
L.S.D. AT .05	7	5.6	0.4	8.1	8.8	9.4		
C.V. %	1.5	10.8		10.1	10.9	12.0		
TRIAL AVERAGE		34.3	1.6	45.6	47.7	42.4	46.7	45.2
--	Data not available.							
**	Highest yielding variety in the maturity group.							
*	Yield not significantly less than the highest yielding variety in the same maturity group.							
##	Maturity group checks as identified on page 4.							

TABLE 13. Performance of Soybean Varieties evaluated on a Clay Soil near Portageville (Pemiscott County) on the Delta Research Center during 1992-94.

Planted: 6 May 1994
 Harvested: 11 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Sharkey Silty Clay
 Soil Test: pH=5.9, OM=3.2%, P=79, K=547

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter
 Post: None
 Irrigation: 4.0 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 56 Eggs / 250cc of Soil
 Growing Season Rainfall: May=3.2, June=6.8, July=2.5, Aug.=0.8, Sept.=3.1, TOTAL=16.4 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 4							
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-07							
AgraTech FFR 493	9-16	29.3	1.2	55.6**	59.1*	--	57.4	--
Hartz Variety H4994	9-25	28.4	1.4	53.9*	--	--	--	--
Asgrow A4715	9-12	30.1	1.2	52.8*	52.9*	58.3**	52.9	54.7
Dekalb CX434	9-10	29.5	1.2	50.9*	--	--	--	--
Dyna-Gro 3495	9-25	41.7	2.7	50.6*	54.7*	--	52.7	--
Deltapine DP 3478	9-18	33.3	1.3	50.4*	51.9*	58.0*	51.2	53.4
HyPerformer HY 458	9-09	27.9	1.4	50.2*	--	--	--	--
KS4694	9-11	25.1	1.2	48.7*	52.9*	--	50.8	--
Northrup King S46-44	9-11	31.2	1.2	47.5*	48.7	48.5*	48.1	48.2
Deltapine DP 3456	9-16	29.6	1.4	46.2	47.3	46.1*	46.8	46.5
MFA Morsoy 9348	9-15	32.8	1.4	46.1	--	--	--	--
Pioneer Variety 9451	9-06	31.1	1.3	44.8	41.2	--	43.0	--
MFA Morsoy 9345SCN	9-13	32.7	1.8	44.6	--	57.7*	--	--
HyPerformer HY 498	9-26	38.9	1.9	43.7	49.3	--	46.5	--
Southern Cross Joshua	9-13	29.4	1.3	43.6	--	--	--	--
Stressland	9-05	31.8	1.3	43.4	--	--	--	--
AgraTech FFR 474	9-13	33.8	1.9	43.0	--	--	--	--
Jader 4730	9-16	28.9	1.2	42.5	54.3*	--	48.4	--
Lynks 5482	9-15	29.8	1.3	42.5	--	--	--	--
Pioneer Variety 9442	9-09	28.5	1.3	42.0	44.7	51.3*	43.4	46.0
Calhoun	9-07	16.7	1.0	42.0	--	--	--	--
Pioneer Variety 9472	9-09	30.5	1.3	41.4	--	--	--	--
Chesapeake	9-12	33.7	1.3	40.2	45.7	--	43.0	--
Hartz Variety H4464	9-16	36.9	2.0	39.7	48.2	42.4	44.0	43.4
Dekalb CX411	9-04	25.0	1.1	39.6	--	--	--	--
Pioneer Variety 9452	9-07	24.5	1.3	39.2	--	--	--	--
Asgrow A4539	9-09	25.9	1.2	39.2	49.7	--	44.5	--
Northrup King S42-60	9-05	28.4	1.2	39.1	--	--	--	--
Pioneer Variety 9444	9-03	24.5	1.2	39.0	--	--	--	--
Terra TS402	9-01	23.7	1.2	38.4	46.9	--	42.7	--
Dekalb CX478	9-10	32.1	1.2	38.1	--	--	--	--
Buckshot 44	9-27	50.0	1.6	37.8	--	--	--	--
Dekalb CX445	9-05	26.4	1.2	37.0	--	--	--	--
EXPERIMENTAL VARIETIES								
HyPerformer HB4-X434	9-14	27.9	1.2	51.4*	--	--	--	--
KY88-5037	9-12	31.0	1.9	46.7	--	--	--	--
Jader JEX 3431	9-13	30.4	1.2	44.9	--	--	--	--
HyPerformer HB4-X485	9-18	41.1	1.4	44.2	--	--	--	--
K1207	9-04	31.6	1.4	44.1	--	--	--	--
HyPerformer HB4-X497	9-13	28.9	1.5	43.1	--	--	--	--
Riverside 91-46	9-26	46.4	1.7	42.2	46.0	59.7*	44.1	49.3
HyPerformer HB4-X463	9-13	35.4	1.3	41.2	--	--	--	--
Terra E474	9-12	25.5	1.3	40.2	--	--	--	--
AVERAGE	9-12	31.0	1.4	43.9	47.6	49.0	45.8	46.8
L.S.D. AT .05	5	4.7	0.5	8.1	9.4	12.4		
C.V. %	1.1	9.2		11.2	12.1	15.4		

TABLE 13. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-21							
Asgrow A5843	10-06	29.7	1.5	60.4**	--	--	--	--
Pioneer Variety 9592	10-09	35.0	1.4	58.6*	57.1*	71.9*	57.9	62.5
AgraTech FFR 514	9-21	24.1	1.2	58.2*	--	--	--	--
Northrup King S52-25	9-24	27.0	1.2	58.1*	--	--	--	--
Hartz Variety H5545	10-06	24.5	1.4	58.0*	61.3**	--	59.7	--
Pioneer Variety 9551	9-26	27.8	1.5	57.6*	45.3	62.1	51.5	55.0
Asgrow A5885	10-06	30.8	1.5	57.3*	--	--	--	--
Pioneer Variety 9584	10-06	33.4	1.4	57.0*	55.3*	60.8	56.2	57.7
AgraTech FFR 563	10-06	30.1	1.5	56.5*	59.0*	--	57.8	--
Hartz 5164	10-06	33.9	1.4	56.5*	51.6	65.4	54.1	57.8
Delta King 5850	10-06	28.4	1.4	56.5*	--	--	--	--
Riverside Robin-5	10-10	27.4	1.4	56.2*	--	--	--	--
Delta King 5475	10-06	23.3	1.2	55.9*	--	--	--	--
Northrup King S57-11	10-06	28.3	1.2	55.3*	--	--	--	--
Hartz Variety H5566	10-06	32.3	1.5	55.2*	54.5*	61.6	54.9	57.1
Buckshot 55	10-06	26.9	1.3	54.8*	--	--	--	--
Hartz Variety H5218	10-03	28.6	1.5	54.7*	--	--	--	--
Holladay	10-06	21.6	1.3	54.5*	48.2	--	51.4	--
AgraTech FFR 542	10-01	27.2	1.4	54.1*	--	--	--	--
Pioneer Variety 9521	9-22	28.1	1.5	54.1*	42.9	56.8	48.5	51.3
AgraTech AT 555	10-07	28.4	1.4	54.0*	56.8*	58.7	55.4	56.5
Dyna-Gro 3576	10-06	27.3	2.3	54.0*	56.6*	--	55.3	--
Hartz Variety H5350	10-06	26.3	1.4	53.9*	56.6*	75.2**	55.3	61.9
MFA Morsoy 9152SCN	10-06	24.2	1.4	53.7*	40.8	59.0	47.3	51.2
Deltapine 415	10-06	31.0	1.5	53.2*	53.2*	59.9	53.2	55.4
Terra-Vig 5676	10-06	27.3	1.5	52.1*	--	--	--	--
HyPerformer HY 574	10-06	32.7	1.6	51.9*	--	--	--	--
Hartz Variety H5810	10-06	30.0	1.4	50.8*	54.8*	61.1	52.8	55.6
Asgrow A5560	10-01	25.1	1.5	50.8*	45.1	61.4	48.0	52.4
Hutcheson	10-06	25.2	1.3	50.2	56.5*	66.6	53.4	57.8
HyPerformer HSC 501 Br	9-23	24.9	1.4	49.8	47.4	64.1	48.6	53.8
Clifford	10-03	26.2	1.4	49.4	59.4*	--	54.4	--
Hartz Variety H5042	10-06	35.4	1.5	48.8	51.9	--	50.3	--
Terra-Vig 5452	10-06	33.4	1.6	47.6	--	58.1	--	--
Terra-Vig 5693	10-08	25.3	1.5	44.5	58.1*	--	51.3	--
Essex	9-25	22.3	1.3	44.5	37.3	59.2	40.9	47.0
Asgrow A5112	9-21	20.0	1.1	43.1	34.5	--	38.8	--
Riverside 499	9-27	36.8	1.5	42.1	48.4	55.5	45.3	48.7
Jader 5131	9-21	20.6	1.4	38.2	44.0	--	41.1	--
Capehart Stone	10-09	30.6	1.6	37.2	47.9	60.5	42.6	48.5
EXPERIMENTAL VARIETIES								
Northrup King X9459	10-06	28.8	1.4	56.7*	--	--	--	--
HyPerformer HB4-X563	10-06	30.4	1.5	55.0*	--	--	--	--
KY88-4080	9-22	20.1	1.4	48.5	--	--	--	--
HyPerformer HB4-X524	9-23	27.6	1.8	48.4	--	--	--	--
HyPerformer HB4-X521	9-27	23.3	1.5	45.0	--	--	--	--
6.0 Maturity Group Check##	10-12							
AVERAGE	10-01	27.8	1.4	51.2	49.4	59.3	50.3	53.3
L.S.D. AT .05	3	6.2	0.3	9.7	8.3	7.2		
C.V.%	0.7	13.7		11.6	10.2	7.5		
TRIAL AVERAGE		29.3	1.4	48.3	48.6	55.5	48.5	50.8

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group check as identified on page 4.

TABLE 14. Performance of Soybean Varieties evaluated at two Southeast Missouri locations (Oran and Portageville) during 1994.

Oran Planted: 18 May 1994 Harvested: 26 October 1994 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A Soil Type: Commerce Silt Loam Previous Crop: Corn SCN Population at Planting: 0 Eggs Growing Season Rainfall: 15.3 Inches	Portageville - Loam Planted: 10 May 1994 Harvested: 10 October 1994 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A Soil Type: Tiptonville Loam Previous Crop: Soybean SCN Population at Planting: 5600 eggs Growing Season Rainfall: 16.4 Inches	Portageville - Clay Planted: 6 May 1994 Harvested: 11 October 1994 Row Spacing: 30 Inches Planted Population: 156,800 Seeds/A Soil Type: Sharkey Clay Previous Crop: Soybean SCN Population at Planting: 56 Eggs Growing Season Rainfall: 16.4 Inches
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Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)			
	Oran	Portageville Loam	Clay	Mean	Oran	Portageville Loam	Clay

MATURITY GROUP 4

COMMERCIAL VARIETIES

Dekalb CX434	3.0	1.8	1.2	2.0	63.1*	48.0*	50.9*	54.0**
Hartz Variety H4994	3.3	1.6	1.4	2.1	58.8*	48.9*	53.9*	53.9*
Dekalb CX411	3.2	1.8	1.1	2.0	65.2**	50.2**	39.6	51.7*
Jader 4730	4.0	2.0	1.2	2.4	62.5*	44.3*	42.5	49.8*
Southern Cross Joshua	4.3	1.7	1.3	2.4	63.7*	40.1	43.6	49.1*
Deltapine DP 3478	4.3	1.8	1.3	2.5	51.0	45.7*	50.4*	49.0*
Lynks 5482	3.7	1.8	1.3	2.3	61.1*	42.5	42.5	48.7*
AgraTech FFR 493	3.3	1.4	1.2	2.0	49.9	40.2	55.6**	48.6*
KS4694	2.3	1.8	1.2	1.8	50.8	45.2*	48.7*	48.2
HyPerformer HY 458	2.8	2.2	1.4	2.1	49.4	44.7*	50.2*	48.1
Deltapine DP 3456	2.8	2.2	1.4	2.1	55.8*	42.0	46.2	48.0
Calhoun	1.3	1.2	1.0	1.2	61.1*	38.3	42.0	47.1
Asgrow A4539	2.3	1.5	1.2	1.7	56.2*	44.0*	39.2	46.5
MFA Morsoy 9348	4.3	1.6	1.4	2.4	51.6	41.9	46.1	46.5
Asgrow A4715	2.3	1.7	1.2	1.7	46.8	39.7	52.8*	46.4
Northrup King S42-60	4.3	1.5	1.2	2.3	54.6	44.8*	39.1	46.2
Northrup King S46-44	4.5	1.5	1.2	2.4	49.4	41.3	47.5*	46.1
Pioneer Variety 9442	3.8	1.5	1.3	2.2	51.8	41.9	42.0	45.2
Stressland	5.0	1.5	1.3	2.6	47.1	44.4*	43.4	45.0
Pioneer Variety 9472	5.0	2.0	1.3	2.8	50.8	41.7	41.4	44.6
Pioneer Variety 9444	3.2	1.5	1.2	2.0	50.3	44.0*	39.0	44.4
Dekalb CX445	4.0	1.7	1.2	2.3	55.1	41.0	37.0	44.4
Pioneer Variety 9451	5.0	1.5	1.3	2.6	45.3	41.5	44.8	43.9
Pioneer Variety 9452	4.2	1.5	1.3	2.3	46.2	43.5*	39.2	43.0
Terra TS402	4.2	1.5	1.2	2.3	51.7	38.7	38.4	42.9
HyPerformer HY 498	4.2	2.0	1.9	2.7	42.2	38.4	43.7	41.4
Dekalb CX478	4.7	1.5	1.2	2.5	45.1	40.5	38.1	41.2
MFA Morsoy 9345SCN	5.0	1.8	1.8	2.9	39.4	37.9	44.6	40.6
Chesapeake	3.8	1.8	1.3	2.3	43.6	37.0	40.2	40.3
AgraTech FFR 474	5.0	1.8	1.9	2.9	36.2	40.8	43.0	40.0
Dyna-Gro 3495	4.7	2.0	2.7	3.1	29.1	37.6	50.6*	39.1
Buckshot 44	3.8	1.8	1.6	2.4	41.2	33.8	37.8	37.6
Hartz Variety H4464	4.7	2.0	2.0	2.9	35.1	28.5	39.7	34.4

EXPERIMENTAL VARIETIES

Terra E474	4.7	1.7	1.3	2.6	59.9*	48.8*	40.2	49.6*
KY88-5037	3.7	1.5	1.9	2.4	56.1*	42.6*	46.7	48.5*
HyPerformer HB4-X434	3.0	1.6	1.2	1.9	44.6	43.8*	51.4*	46.6
Jader JEX 3431	4.3	1.5	1.2	2.3	48.8	42.1	44.9	45.3
HyPerformer HB4-X497	4.7	1.5	1.5	2.6	44.8	41.8	43.1	43.2
HyPerformer HB4-X463	4.7	1.5	1.3	2.5	44.5	39.0	41.2	41.6
K1207	5.0	1.7	1.4	2.7	42.8	37.7	44.1	41.5
HyPerformer HB4-X485	5.0	1.6	1.4	2.7	36.4	35.6	44.2	38.7
Riverside 91-46	3.5	2.2	1.7	2.5	40.2	30.1	42.2	37.5
AVERAGE	3.9	1.7	1.4	2.3	49.5	41.3	43.9	44.9
L.S.D. AT .05	1.4	0.5	0.4	0.4	9.9	7.6	8.1	5.5
C.V.%					12.4	11.3	11.2	

TABLE 14. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Oran	Portageville		Mean	Oran	Portageville		Mean
		Loam	Clay			Loam	Clay	
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
Asgrow A5885	4.0	1.5	1.5	2.3	50.4*	55.9*	57.3*	54.5**
Asgrow A5843	2.5	1.4	1.5	1.8	50.9*	52.2*	60.4**	54.5**
Pioneer Variety 9584	4.3	1.4	1.4	2.4	49.9*	51.8*	57.0*	52.9*
Clifford	3.3	1.4	1.4	2.0	50.8*	56.5*	49.4	52.2*
Delta King 5475	4.0	1.4	1.2	2.2	48.5*	51.5*	55.9*	52.0*
MFA Morsoy 9152SCN	2.3	1.5	1.4	1.7	49.4*	51.6*	53.7*	51.6*
Hartz Variety H5218	4.0	1.3	1.5	2.3	44.9*	55.2*	54.7*	51.6*
Holladay	3.5	1.4	1.3	2.1	46.9*	52.6*	54.5*	51.3*
Pioneer Variety 9551	3.5	1.4	1.5	2.1	45.8*	50.5	57.6*	51.3*
Hartz Variety H5350	4.0	1.5	1.4	2.3	41.3	58.6*	53.9*	51.3*
AgraTech FFR 563	4.0	1.4	1.5	2.3	42.1	53.8*	56.5*	50.8*
Hartz 5164	4.0	1.5	1.4	2.3	42.7	51.9*	56.5*	50.4*
Riverside Robin-5	3.7	1.4	1.4	2.2	38.3	56.8*	56.2*	50.4*
Pioneer Variety 9521	4.3	1.4	1.5	2.4	40.1	53.9*	54.1*	49.4*
Hartz Variety H5566	4.0	1.5	1.5	2.3	41.4	51.4*	55.2*	49.3*
Hartz Variety H5042	4.0	1.5	1.5	2.3	44.8*	52.9*	48.8	48.8*
Asgrow A5560	4.0	1.4	1.5	2.3	43.7*	51.6*	50.8*	48.7*
Pioneer Variety 9592	3.7	1.4	1.4	2.2	41.5	45.7	58.6*	48.6*
Northrup King S57-11	4.0	1.4	1.2	2.2	41.6	48.5	55.3*	48.5*
Delta King 5850	4.0	1.8	1.4	2.4	43.1*	46.0	56.5*	48.5*
Hartz Variety H5545	4.0	1.4	1.4	2.3	36.8	49.8	58.0*	48.2
HyPerformer HY 574	3.1	2.1	1.6	2.3	41.8	51.0*	51.9*	48.2
Deltapine 415	3.3	1.6	1.5	2.1	44.2*	46.6	53.2*	48.0
Buckshot 55	4.3	1.5	1.3	2.4	41.5	47.2	54.8*	47.8
Hutcheson	3.2	1.7	1.3	2.1	44.6*	48.3	50.2	47.7
HyPerformer HSC 501 Br	2.8	1.3	1.4	1.8	44.7*	47.4	49.8	47.3
AgraTech FFR 542	3.7	1.4	1.4	2.2	38.6	49.1	54.1*	47.3
AgraTech AT 555	3.2	1.5	1.4	2.0	41.5	46.2	54.0*	47.2
Northrup King S52-25	3.0	1.4	1.2	1.9	36.0	46.0	58.1*	46.7
Dyna-Gro 3576	4.5	1.4	2.3	2.7	36.3	49.4	54.0*	46.6
AgraTech FFR 514	4.0	1.4	1.2	2.2	28.1	50.2	58.2*	45.5
Terra-Vig 5676	4.0	1.6	1.5	2.4	33.7	50.8*	52.1*	45.5
Terra-Vig 5452	4.3	1.5	1.6	2.5	40.1	46.5	47.6	44.7
Asgrow A5112	2.0	1.2	1.1	1.4	40.9	48.9	43.1	44.3
Essex	3.3	1.5	1.3	2.0	47.3*	41.1	44.5	44.3
Terra-Vig 5693	3.8	1.4	1.5	2.2	37.9	50.5	44.5	44.3
Hartz Variety H5810	4.0	1.4	1.4	2.3	37.5	43.4	50.8*	43.9
Jader 5131	3.3	1.5	1.4	2.1	48.5*	44.5	38.2	43.7
Riverside 499	4.7	2.2	1.5	2.8	36.7	38.9	42.1	39.2
Capehart Stone	3.8	1.5	1.6	2.3	38.4	41.5	37.2	39.0
EXPERIMENTAL VARIETIES								
KY88-4080	1.7	1.0	1.4	1.4	53.3**	50.2	48.5	50.7
HyPerformer HB4-X563	3.5	1.4	1.5	2.1	40.4	51.7*	55.0*	49.0
Northrup King X9459	2.2	1.4	1.4	1.7	29.2	58.8**	56.7*	48.2
HyPerformer HB4-X521	4.0	1.4	1.5	2.3	38.0	50.3	45.0	44.4
HyPerformer HB4-X524	3.8	1.6	1.8	2.4	38.9	38.0	48.4	41.8
AVERAGE	3.7	1.5	1.4	2.2	41.5	49.2	51.2	47.3
L.S.D. AT .05	0.9	0.4	0.3	0.5	10.2	8.1	9.7	6.0
C.V. %					15.0	10.1	11.6	
TRIAL AVERAGE	3.8	1.6	1.4	2.3	45.7	45.6	48.3	46.5

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

NOTES

PART II

SOYBEAN DOUBLE CROP TRIALS

EXPERIMENTAL PROCEDURES

Field Plot Design. A randomized block design with four replications was used. Individual plots were four rows wide and 20 feet long. The center two rows of each plot were harvested to determine yield.

Locations. Soybean variety double crop evaluation trials were located in the southeastern region of the state. Trial locations are shown on adjacent map. In 1994, the locations for these trials were on (1) the Delta Research Center Lee farm near Portageville in Pemiscot County. The trials were evaluated on both silt and clay soils.



SUMMARY OF RESULTS

Soybean varieties were evaluated under double crop conditions in two Southeast Missouri studies during 1994. Data and management practices for these trials are presented in Tables 16 through 18.

For each entry and location, data on maturity, plant height, lodging, and yield adjusted to 13.0 percent moisture are given. As emphasized previously, because of the influence of environmental conditions on soybean productivity, the reader is encouraged to give more weight to results from several locations or years than to those from a single test.

Average yields and ranges observed at each location are summarized below in Table 15. The ranges shown give the values for the lowest and highest yielding varieties in each test. They provide an indication of the variation in yield potential among soybean varieties available on the market in Missouri. The use of data presented in the individual location tables of this Special Report should increase the probability of selecting varieties that combine high yield potential with other agronomic characteristics appropriate to specific farming situations.

TABLE 15. SOYBEAN DOUBLE CROP YIELD SUMMARY.

LOCATION	NUMBER OF ENTRIES	YIELD (BUSHEL/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Portageville Loam	20	15-28	21	16
Portageville Clay	20	12-35	23	17

TABLE 16. Performance of Soybean Varieties following wheat on a Southeast Missouri Loam Soil. The test was on the Delta Research Center near Portageville (Pemiscott County) during 1992-94.

Planted: 28 June 1994
 Harvested: 1 November 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Tiptonville Silt Loam
 Soil Test: pH=5.8, OM=1.1%, P=87, K=222

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter
 Post: Fusilade + Reflex
 Irrigation: 0.0 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 2,460 Eggs / 250cc of Soil
 Growing Season Rainfall: June=6.8, July=2.5, Aug.=0.8, Sept.=3.1, Oct.=1.4, TOTAL=14.6 inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 4							
COMMERCIAL VARIETIES								
4.0 Maturity group check##	10-03							
Manokin	10-18	24.3	1.0	27.4	--	--	--	--
Delsoy 4710	10-11	20.5	1.0	21.3	28.5*	35.9	24.9	28.6
Delsoy 4500	10-08	18.3	1.0	17.7	22.8	29.8	20.3	23.4
MFA Morsoy 9348	10-10	17.8	1.0	17.6	--	--	--	--
Delsoy 4210	10-08	20.3	1.0	16.6	31.4*	37.1	24.0	28.4
Mycogen J-445	10-11	16.3	1.0	16.1	--	--	--	--
Jader 4730	10-10	20.8	1.0	15.6	--	--	--	--
MFA Morsoy 9345SCN	10-06	18.3	1.0	14.8	--	36.7	--	--
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity group check##	10-17							
Pioneer Variety 9551	10-22	22.3	1.0	27.8**	29.4	34.6	28.6	30.6
Capehart Stone	10-11	27.3	1.0	26.5	36.3*	35.8	31.4	32.9
Pioneer Variety 9592	10-24	27.3	1.3	24.8	29.5	33.9	27.2	29.4
Delsoy 4900	10-14	20.3	1.3	24.6	34.4*	38.3	29.5	32.4
Hutcheson	10-19	19.8	1.0	24.4	26.4	35.9	25.4	28.9
Deltapine 105	10-23	23.3	1.1	24.1	33.7*	38.0	28.9	31.9
Hartwig	10-23	21.5	1.0	23.2	33.7*	37.8	28.5	31.6
Asgrow A5885	10-16	23.5	1.1	22.8	38.0**	37.4	30.4	32.7
Deltapine 415	10-18	23.3	1.0	21.3	29.6	33.2	25.5	28.0
Avery	10-13	30.0	1.0	20.3	29.1	34.6	24.7	28.0
Pioneer Variety 9521	10-14	21.0	1.0	19.6	32.5*	33.5	26.1	28.5
Northrup King S52-25	10-15	18.8	1.0	18.0	--	--	--	--
6.0 Maturity group check##	10-25							
TRIAL AVERAGE	10-15	21.8	1.0	21.2	31.1	34.6	26.2	29.0
TRIAL L.S.D. AT .05	9	5.3	NS	NS	8.8	NS		
TRIAL C.V.%	2.1	17.3		32.3	20.4	15.2		

-- Data not available.
 ** Highest yielding variety in the test.
 * Yield not significantly less than the highest yielding variety in the trial.
 ## Maturity group checks as identified on page 4.
 NS Not significant at the .05 level.

TABLE 17. Performance of Soybean Varieties following wheat on a Southeast Missouri Clay Soil. The test was on the Delta Research Center near Portageville (Pemiscott County) during 1992-94.

Planted: 27 June 1994
 Harvested: 4 November 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Sharkey Silty Clay
 Soil Test: pH=6.6, OM=2.7%, P=125, K=775

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter
 Post: Fusilade + Reflex
 Irrigation: 0.00 Inches
 Previous Crop: Wheat

Cyst Nematode Population at Planting: 0 Eggs / 250cc of Soil
 Growing Season Rainfall: June=6.8, July=2.5, Aug.=0.8, Sept.=3.1, Oct.=1.4 TOTAL=14.6 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 4							
COMMERCIAL VARIETIES								
4.0 Maturity group check##	10-03							
Manokin	10-19	22.8	1.1	30.9*	--	--	--	--
Mycogen J-445	10-08	20.8	1.0	21.2	--	--	--	--
Delsoy 4210	10-08	23.8	1.3	20.0	10.7	37.7*	15.4	22.8
Delsoy 4710	10-09	22.3	1.1	19.0	14.0	44.1*	16.5	25.7
Jader 4730	10-09	21.0	1.1	18.6	--	--	--	--
MFA Morsoy 9348	10-08	21.0	1.1	17.7	--	--	--	--
Delsoy 4500	10-06	21.3	1.0	17.1	10.3	28.5	13.7	18.6
MFA Morsoy 9345SCN	10-08	20.0	1.3	15.9	--	40.6*	--	--
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity group check##	10-19							
Pioneer Variety 9592	10-22	32.5	1.5	35.3**	28.4*	42.6*	31.9	35.4
Pioneer Variety 9551	10-26	25.3	1.3	31.2*	26.4*	43.7*	28.8	33.8
Asgrow A5885	10-24	27.3	1.3	29.2*	25.0*	43.6*	27.1	32.6
Deltapine 415	10-20	24.3	1.3	28.4*	28.9*	41.8*	28.7	33.0
Capehart Stone	10-17	24.3	1.3	26.1*	25.0*	39.9*	25.6	30.3
Deltapine 105	10-22	28.8	1.3	25.1*	25.2*	39.9*	25.2	30.1
Avery	10-11	29.8	1.3	22.4	20.6*	40.5*	21.5	27.8
Hutcheson	10-21	20.8	1.1	22.4	25.2*	41.8*	23.8	29.8
Northrup King S52-25	10-15	20.3	1.1	21.7	--	--	--	--
Pioneer Variety 9521	10-13	19.0	1.1	19.9	21.6*	32.3	20.8	24.6
Hartwig	10-23	21.5	1.3	15.8	18.1	28.1	17.0	20.7
Delsoy 4900	10-16	19.8	1.1	11.9	24.1*	42.2*	18.0	26.1
6.0 Maturity group check##	11-01							
TRIAL AVERAGE	10-15	23.3	1.2	22.6	21.6	38.0	21.9	27.2
TRIAL L.S.D. AT .05	2	4.9	0.3	10.5	9.1	8.1		
TRIAL C.V.%	2.1	15.0		33.0	30.9	15.1		

-- Data not available.

** Highest yielding variety in the test.

* Yield not significantly less than the highest yielding variety in the trial.

Maturity group checks as identified on page 4.

TABLE 18. Performance of Soybean Varieties following wheat on two soil types near Portageville in Southeast Missouri during 1994.

Loam
 Planted: 28 June 1994
 Harvested: 1 November 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

Clay
 Planted: 27 June 1994
 Harvested: 4 November 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.

Soil Type: Tiptonville Silt Loam
 Previous Crop: Wheat
 SCN Population at Planting: 2,460 Eggs
 Growing Season Moisture: 14.6 Inches

Soil Type: Sharkey Silty Clay
 Previous Crop: Wheat
 SCN Population at Planting: 0 Eggs
 Growing Season Moisture: 14.6 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Loam	Clay	Mean	Loam	Clay	Mean
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Manokin	1.0	1.1	1.0	27.4	30.9*	29.2*
Delsoy 4710	1.0	1.1	1.0	21.3	19.0	20.2
Mycogen J-445	1.0	1.0	1.0	16.1	21.2	18.6
Delsoy 4210	1.0	1.3	1.2	16.6	20.0	18.3
MFA Morsoy 9348	1.0	1.1	1.0	17.6	17.7	17.6
Delsoy 4500	1.0	1.0	1.0	17.7	17.1	17.4
Jader 4730	1.0	1.1	1.0	15.6	18.6	17.1
MFA Morsoy 9345SCN	1.0	1.3	1.2	14.8	15.9	15.4
MATURITY GROUP 5						
COMMERCIAL VARIETIES						
Pioneer Variety 9592	1.3	1.5	1.4	24.8	35.3**	30.0**
Pioneer Variety 9551	1.0	1.3	1.2	27.8**	31.2*	29.5*
Capehart Stone	1.0	1.3	1.2	26.5	26.1*	26.3*
Asgrow A5885	1.1	1.3	1.2	22.8	29.2*	26.0*
Deltapine 415	1.0	1.3	1.2	21.3	28.4*	24.8*
Deltapine 105	1.1	1.3	1.2	24.1	25.1*	24.6*
Hutcheson	1.0	1.1	1.0	24.4	22.4	23.4*
Avery	1.0	1.3	1.2	20.3	22.4	21.4
Northrup King S52-25	1.0	1.1	1.0	18.0	21.7	19.8
Pioneer Variety 9521	1.0	1.1	1.0	19.6	19.9	19.8
Hartwig	1.0	1.3	1.2	23.2	15.8	19.5
Delsoy 4900	1.3	1.1	1.2	24.6	11.9	18.2
TRIAL AVERAGE	1.0	1.2	1.1	21.2	22.6	21.9
TRIAL L.S.D. AT .05	NS	0.3	0.3	NS	10.5	7.1
TRIAL C.V. %				32.3	33.0	

** Highest yielding variety in the trial.

* Yield not significantly less than the highest yielding variety in the trial.

NS Not Significant at the .05 level.

PART III

SOYBEAN CYST NEMATODE TRIALS

Soybean resistance to soybean cyst nematode (SCN) is often expressed as a reduction in the numbers of SCN females produced on the resistant genotype relative to the number produced on a susceptible check cultivar. Soybean lines can be screened for resistance to SCN by counting the numbers of SCN females that develop on them in greenhouse tests and comparing these values to those from susceptible checks.

In 1994, screenings were conducted using SCN from soils infested with races 1, 3, and 14.* Race determinations were made on SCN isolates collected from actual trial locations according to standard procedures used by the MU Nematode Diagnostic Laboratory. For each of the isolates used in 1994, the SCN Index and appropriate SCN Race are summarized below.

SCN INDEX					
ISOLATE	PEKING	PICKETT	PI 88788	PI 90763	PI 437654
RACE 1	1.0	2.0	29.0	1.0	0.0
RACE 3	0.0	0.0	1.0	0.0	0.0
RACE 14	85.0	91.0	9.0	62.0	0.0

SCN Index = ((# of females developed) / (# of females developed on Lee)) x 100.

In addition to SCN race determination for individual trial locations, the above isolates were used for screening individual varieties for resistance to SCN. One hundred and forty-nine commercial varieties and experimental lines were screened for reaction to the SCN isolates representing races 1, 3, and 14.

Screenings utilizing the three isolates were replicated three times each and conducted concurrently. In each replication, seeds of each variety were planted in a PVC tube containing soil infested with the appropriate SCN isolate, and allowed to grow for 30 days. After 30 days, the white female SCN were extracted from the roots and counted.

The SCN screening results are reported in Table 32 in rating form and are based on the individual counts from these three tests. As a rule, low counts are correlated with high resistance to nematodes. Susceptible cultivars may receive low scores due to poorly developed root systems. The standard ratings used in Table 32 for a soybean's response to cyst nematodes are defined below:

SCN INDEX (%)	RATING
0 - 10	R = Resistant
11 - 30	MR = Moderate Resistant
31 - 60	MS = Moderate Susceptible
> 60	S = Susceptible

*Races 1 and 3 are the most common ones in Missouri, representing 68% of all SCN populations. Race 14 is relatively rare (3% in Missouri), but is frequently noted in descriptions of soybean resistance to SCN.

EXPERIMENTAL PROCEDURES

Field Plot Design. A Randomized Block design with six replications was used. Individual plots were four rows wide and 20 feet long. The center two rows of each plot were harvested to determine yield.

Locations. On the basis of geographical characteristics and production areas, the state was divided into regions that represent areas of different climates and soil types. SCN variety evaluation trials were located in the northern, central, southwestern and southeastern regions of the state. Trial locations are shown on the adjacent map. In 1994, the locations for these trials were on (1) the Harry Hayen farm near Chillicothe in Livingston Co.; (2) the Greenley Memorial Center near Novelty in Knox Co.; (3) the Meyer brothers farm near Brunswick in Carroll Co.; (4) the Boyes brothers farm near Benton City in Audrain Co.; (5) the Jim Kircher farm near Garden City in Cass Co.; (6) the Sherrell Bean farm near Lamar in Barton Co.; (7) the Arlington farm near Bertrand in Mississippi Co.; and (8) the Clarkton Research Center near Clarkton in Dunklin Co.



SUMMARY OF RESULTS

Soybean varieties and blends were evaluated in eight cyst nematode studies in 1994. Results are presented by regions of the state. For each entry and location, data on lodging and yield adjusted to 13.0 percent moisture are given. As emphasized previously, because of the influence of environmental conditions on soybean productivity, the reader is encouraged to give more weight to results from several locations or years than to those from a single test.

Average yields and ranges observed at each SCN location are summarized below in Table 19. The ranges shown give the values for the lowest and highest yielding varieties in each test. The lowest yielding varieties in these tests are generally those which are known to be susceptible to SCN. The use of data presented in the individual location tables of the Special Report should increase the probability of selecting varieties that combine high yield potential with other agronomic characteristics appropriate to specific farming situations.

TABLE 19. CYST NEMATODE SOYBEAN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	YIELD (BU/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Chillicothe	60	35-45	41	20
Novelty	60	23-56	50	21
Brunswick	60	22-38	30	23
Benton City	60	32-43	39	24
Garden City	37	34-58	51	26
Lamar	37	38-62	52	27
Bertrand	38	17-32	27	29
Clarkton	38	19-50	34	30

TABLE 20. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Chillicothe (Livingston County) on the Harry Hayden Farm during 1994.

Planted: 16 May 1994
 Harvested: 19 Sept., 10 Oct. 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.2, OM=2.4%, P=24, K=132

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Squadron
 Post: None
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 2100 Eggs / 250cc of Soil

Cyst Nematode Race: Race = 3

Growing Season Rainfall: May=2.7, June=3.1, July=4.1, Aug.=2.5, Sept.=6.0, TOTAL=18.0 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-05							
Shissler GR8 392c	9-11	37.2	1.0	44.7**	--	--	--	--
Lewis 391	9-12	41.8	1.0	44.5*	--	--	--	--
Dekalb CX340c	9-11	40.2	1.0	44.2*	--	--	--	--
Dairyland DSR-373	9-12	38.7	1.0	43.7*	--	--	--	--
Pioneer Variety 9362	9-10	35.8	1.0	43.1*	--	--	--	--
Shissler GR8 337c	9-12	31.0	1.0	42.9*	--	--	--	--
Jack ###	9-06	45.5	1.7	42.8*	--	--	--	--
Northrup King S29-11 ###	9-06	35.7	1.0	42.7*	--	--	--	--
McAllister Recyster	9-11	38.5	1.0	42.4*	--	--	--	--
Terra TR 390SCN	9-12	38.3	1.0	42.4*	--	--	--	--
Ciba 3388	9-08	37.8	1.0	42.1*	--	--	--	--
MFA Morsoy 9338SCN	9-13	38.3	1.0	42.1*	--	--	--	--
Stine 3562CN	9-12	31.7	1.0	42.1*	--	--	--	--
Vigoro V363SCN	9-11	37.5	1.0	42.0*	--	--	--	--
MFA Morsoy 9335SCN	9-11	38.7	1.0	41.9*	--	--	--	--
Patriot 379N	9-09	40.0	1.0	41.9*	--	--	--	--
Lynks 5380	9-13	41.0	1.0	41.8*	--	--	--	--
Asgrow A3431	9-13	35.0	1.0	41.8*	--	--	--	--
Golden Harvest H-1358	9-11	39.3	1.0	41.6*	--	--	--	--
Yale	9-14	38.2	1.0	41.4*	--	--	--	--
Ohlde 3662N	9-10	37.7	1.0	41.0*	--	--	--	--
Reeds Brand 350 SCN	9-21	44.3	1.0	41.0*	--	--	--	--
Ciba 3323	9-07	33.3	1.0	40.7*	--	--	--	--
Mycogen J-380c	9-13	40.8	1.0	40.5	--	--	--	--
Lewis 388	9-12	36.5	1.0	40.3	--	--	--	--
Saline	9-15	44.5	1.4	40.0	--	--	--	--
Dekalb CX394c	9-16	40.3	1.0	39.8	--	--	--	--
NeCo 1051N	9-11	36.7	1.0	39.8	--	--	--	--
Willcross 94	9-12	37.3	1.0	39.5	--	--	--	--
Reeds Brand 360 SCN	9-13	42.5	1.8	38.2	--	--	--	--
Fayette	9-15	44.3	1.4	37.7	--	--	--	--
Linford	9-14	43.8	1.7	37.6	--	--	--	--
Merschman McKinley II	9-18	34.5	1.0	37.3	--	--	--	--
Williams 82 ####	9-14	43.0	1.1	37.2	--	--	--	--
Pioneer Variety 9394	9-11	39.7	1.1	36.3	--	--	--	--
Kruger K3700 SCN	9-15	32.5	1.0	35.6	--	--	--	--

EXPERIMENTAL VARIETIES

Dairyland DST3125	9-07	37.5	1.1	44.4*	--	--	--	--
MPV-8	9-14	36.8	1.0	42.5*	--	--	--	--
McAllister Ex.350	9-09	39.0	1.0	41.2*	--	--	--	--
MPV-1	9-15	40.8	1.1	38.7	--	--	--	--
Terra E294 ###	9-05	37.5	1.0	36.5	--	--	--	--
MPV-3	9-13	36.0	1.0	35.5	--	--	--	--

AVERAGE	9-12	38.6	1.1	40.8	--	--	--	--
L.S.D. AT .05	2	2.4	0.2	4.1				
C.V.%	0.7	5.5		8.9				

TABLE 20. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 4							
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-15							
ICI D454	9-20	45.7	1.0	44.0*	--	--	--	--
Pioneer Variety 9451	9-20	43.8	2.3	43.0*	--	--	--	--
Merschman Richmond III	9-21	43.0	1.0	43.0*	--	--	--	--
Vigoro V443SCN	9-20	41.7	1.2	42.9*	--	--	--	--
NC+ 4A27	9-19	37.2	1.0	41.9*	--	--	--	--
Asgrow A4138	9-17	41.0	2.2	41.7*	--	--	--	--
Stine 4322CN	9-16	38.3	1.3	41.2	--	--	--	--
NC+ 5A15 ###	10-09	38.8	1.0	40.9	--	--	--	--
Merschman Houston III	9-26	45.7	2.2	40.3	--	--	--	--
Ohlde 4262N	9-16	36.5	1.2	39.6	--	--	--	--
Pioneer Variety 9444	9-13	39.3	1.0	39.0	--	--	--	--
Patriot 420N	9-18	47.0	1.3	38.9	--	--	--	--
Merschman Richmond II	9-13	44.2	2.2	36.6	--	--	--	--
AgriPro AP 4201	9-14	44.7	2.7	36.3	--	--	--	--
Delsoy 4210	9-17	47.2	1.7	35.1	--	--	--	--
EXPERIMENTAL VARIETIES								
NMSB X4315	9-21	43.3	1.5	44.8**	--	--	--	--
LS87-1615	9-22	41.5	1.3	41.8*	--	--	--	--
ICI Ex4402N	9-15	47.7	2.3	38.8	--	--	--	--
5.0 Maturity Group Check##	10-08							
AVERAGE	9-19	42.6	1.6	40.5	--	--	--	--
L.S.D. AT .05	3	2.9	0.6	3.2				
C.V. %	0.9	5.9		5.6				
TRIAL AVERAGE		39.8	1.2	40.7				

-- Data not available.

** Highest yielding variety in the trial.

* Yield not significantly less than the highest yielding variety in the trial.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

Maturity group checks as identified on page 4.

TABLE 21. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Novelty (Knox County) on the Greenly Memorial Farm during 1994 and near Edina on the Steve Miller Farm during 1992-93.

Planted: 13 May 1994
 Harvested: 4 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.3, OM=2.4%, P=43, K=325

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Dual + Scepter
 Post: None
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 6700 eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=1.5, June=2.2, July=2.3, Aug.=5.6, Sept.=3.0, TOTAL=14.6 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-04							
Asgrow A3431	9-14	32.3	1.0	56.5**	27.2	29.0	41.9	37.6
Saline	9-16	36.5	1.0	54.4*	25.5	--	40.0	--
Pioneer Variety 9362	9-13	30.7	1.0	54.3*	24.6	--	39.5	--
Pioneer Variety 9394	9-13	39.0	1.1	53.9*	34.7*	--	44.3	--
Mycogen J-380c	9-13	37.2	1.0	53.6*	22.1	33.9*	37.9	36.5
NeCo 1051N	9-13	33.0	1.0	53.5*	--	--	--	--
Dekalb CX340c	9-13	33.2	1.0	53.5*	28.1	35.3*	40.8	39.0
Lynks 5380	9-13	36.3	1.0	53.4*	25.4	--	39.4	--
Reeds Brand 350 SCN	9-21	42.7	1.2	53.4*	24.2	28.3	38.8	35.3
Dairyland DSR-373	9-12	32.8	1.0	53.4*	29.1	32.4	41.3	38.3
Golden Harvest H-1358	9-12	32.7	1.0	53.1*	--	39.8*	--	--
MFA Morsoy 9338SCN	9-14	36.3	1.0	53.0*	21.2	--	37.1	--
Yale	9-14	31.8	1.0	52.9*	25.1	--	39.0	--
Merschman McKinley II	9-16	30.8	1.0	52.7*	31.1*	--	41.9	--
Patriot 379N	9-12	34.2	1.0	52.2	--	--	--	--
Dekalb CX394c	9-19	37.2	1.0	52.1	--	--	--	--
Jack ###	9-04	41.5	2.0	52.1	--	--	--	--
Stine 3562CN	9-13	25.8	1.0	52.0	--	--	--	--
Ciba 3388	9-12	32.5	1.0	52.0	19.1	33.0	35.6	34.7
Reeds Brand 360 SCN	9-15	36.8	1.8	51.8	36.7**	36.5*	44.3	41.7
Northrup King S29-11 ###	9-03	30.8	1.0	51.8	--	--	--	--
MFA Morsoy 9335 SCN	9-12	34.3	1.0	51.7	--	--	--	--
Shissler GR8 337c	9-11	25.2	1.0	51.7	27.1	--	39.4	--
McAllister Recyster	9-12	32.0	1.0	51.7	27.0	35.7*	39.4	38.1
Ohlde 3662N	9-14	34.2	1.0	51.4	27.1	38.8*	39.3	39.1
Willcross 94	9-13	34.8	1.1	51.4	--	--	--	--
Terra TR 390SCN	9-13	32.8	1.0	51.4	23.7	33.8*	37.6	36.3
Linford	9-14	38.8	2.0	51.4	29.2	33.5	40.3	38.0
Kruger K3700 SCN	9-15	31.0	1.0	51.2	--	--	--	--
Lewis 391	9-14	35.3	1.0	51.0	--	--	--	--
Fayette	9-15	41.3	1.9	50.8	31.4*	36.7*	41.1	39.6
Ciba 3323	9-07	30.2	1.0	50.7	20.7	--	35.7	--
Vigoro V363SCN	9-12	32.2	1.0	50.7	23.1	--	36.9	--
Shissler GR8 392c	9-12	32.8	1.0	50.2	23.0	34.4*	36.6	35.9
Lewis 388	9-12	32.2	1.0	49.7	24.1	33.4	36.9	35.7
Williams 82 ####	9-17	37.8	1.0	46.5	30.4	--	38.5	--
EXPERIMENTAL VARIETIES								
MPV-8	9-13	31.8	1.0	54.2*	--	--	--	--
Dairyland DST3125	9-12	33.0	1.0	53.5*	--	--	--	--
McAllister Ex.350	9-13	32.7	1.0	52.5*	--	--	--	--
MPV-3	9-14	30.7	1.0	48.5	--	--	--	--
Terra E294 ###	9-03	33.8	1.0	46.8	--	--	--	--
MPV-1	9-21	36.5	1.3	46.1	--	--	--	--
AVERAGE	9-13	34.0	1.1	51.9	26.2	32.7	39.1	37.0
L.S.D. AT .05	2	2.0	0.2	4.1	5.9	6.3		
C.V.%	0.7	5.2		7.0	19.9	17.1		

TABLE 21. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 4							
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-20							
NC+ 4A27	9-19	32.8	1.0	48.5**	37.6*	--	43.1	--
Asgrow A4138	9-18	34.8	1.2	47.9*	35.7*	--	41.8	--
Stine 4322CN	9-18	33.5	1.0	47.0*	37.0*	--	42.0	--
Ohlde 4262N	9-17	33.3	1.0	46.5*	31.6	--	39.1	--
Patriot 420N	9-19	39.5	1.3	46.3*	--	--	--	--
ICI D454	9-19	38.2	1.0	46.0*	26.4	35.3*	36.2	35.9
Merschman Houston III	9-28	39.0	1.6	46.0*	36.3*	--	41.2	--
Vigoro V443SCN	9-19	38.5	1.0	45.8*	--	--	--	--
AgriPro AP 4201	9-17	37.2	1.8	45.7*	32.8	35.9*	39.3	38.1
Pioneer Variety 9451	9-19	39.3	1.4	45.5	34.0	--	39.8	--
Delsoy 4210	9-20	39.5	1.7	45.3	33.6	39.8*	39.5	39.6
Merschman Richmond III	9-20	38.8	1.0	45.2	28.1	--	36.7	--
Merschman Richmond II	9-18	36.0	1.7	43.8	36.1*	39.2*	40.0	39.7
Pioneer Variety 9444	9-19	32.7	1.1	43.5	--	--	--	--
NC+ 5A15 ###	10-03	34.2	1.0	23.3	--	--	--	--
EXPERIMENTAL VARIETIES								
NMSB X4315	9-21	35.8	1.0	48.0*	--	--	--	--
LS87-1615	9-22	38.2	1.1	45.8*	--	--	--	--
ICI Ex4402N	9-19	42.3	1.8	45.1	--	--	--	--
5.0 Maturity Group Check##	10-04							
AVERAGE	9-20	36.9	1.3	44.7	33.0	35.1	38.9	37.6
L.S.D. AT .05	2	2.4	0.3	2.9	4.8	6.3		
C.V.%	0.5	5.6		5.6	12.9	15.6		
TRIAL AVERAGE		34.9	1.2	49.7	28.9	33.6	39.1	37.3

-- Data not available.

** Highest yielding variety in the trial.

* Yield not significantly less than the highest yielding variety in the trial.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

Maturity group checks as identified on page 4.

TABLE 22. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at two Northern Missouri locations (Chillicothe and Novelty) during 1994.

Chillicothe
Planted: 16 May 1994
Harvested: 19 Sept., 10 Oct. 1994
Row Spacing: 30 Inches
Planted Population: 156,800 Seeds/A

Soil Type: Putnam Silt Loam
Previous Crop: Corn
SCN Pop. at Planting: 2100 Eggs
Growing Season Moisture: 18.0 Inches

Novelty
Planted: 16 May 1994
Harvested: 3, 4 October 1994
Row Spacing: 30 Inches
Planted Population: 156,800 Seeds/A

Soil Type: Putnam Silt Loam
Previous Crop: Soybean
SCN Pop. at Planting: 6700 Eggs
Growing Season Moisture: 14.6 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Chillicothe	Novelty	Mean	Chillicothe	Novelty	Mean
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Asgrow A3431	1.0	1.0	1.0	41.8*	56.5**	49.2**
Dekalb CX340c	1.0	1.0	1.0	44.2*	53.5*	48.8*
Pioneer Variety 9362	1.0	1.0	1.0	43.1*	54.3*	48.7*
Dairyland DSR-373	1.0	1.0	1.0	43.7*	53.4*	48.6*
Lewis 391	1.0	1.0	1.0	44.5*	51.0	47.8*
Lynks 5380	1.0	1.0	1.0	41.8*	53.4*	47.6*
MFA Morsoy 9338SCN	1.0	1.0	1.0	42.1*	53.0*	47.6*
Shissler GR8 392c	1.0	1.0	1.0	44.7**	50.2	47.4*
Jack ###	1.7	2.0	1.8	42.8*	52.1	47.4*
Golden Harvest H-1358	1.0	1.0	1.0	41.6*	53.1*	47.4*
Shissler GR8 337c	1.0	1.0	1.0	42.9*	51.7	47.3*
Yale	1.0	1.0	1.0	41.4*	52.9*	47.2*
Saline	1.4	1.0	1.2	40.0	54.4*	47.2*
Reeds Brand 350 SCN	1.0	1.2	1.1	41.0*	53.4*	47.2*
Northrup King S29-11 ###	1.0	1.0	1.0	42.7*	51.8	47.2*
Patriot 379N	1.0	1.0	1.0	41.9*	52.2	47.0*
Stine 3562CN	1.0	1.0	1.0	42.1*	52.0	47.0*
Mycogen J-380c	1.0	1.0	1.0	40.5	53.6*	47.0*
Ciba 3388	1.0	1.0	1.0	42.1*	52.0	47.0*
McAllister Recyster	1.0	1.0	1.0	42.4*	51.7	47.0*
Terra TR 390SCN	1.0	1.0	1.0	42.4*	51.4	46.9*
MFA Morsoy 9335 SCN	1.0	1.0	1.0	41.9*	51.7	46.8*
NeCo 1051N	1.0	1.0	1.0	39.8	53.5*	46.6*
Vigoro V363SCN	1.0	1.0	1.0	42.0*	50.7	46.4*
Ohlde 3662N	1.0	1.0	1.0	41.0*	51.4	46.2
Dekalb CX394c	1.0	1.0	1.0	39.8	52.1	46.0
Ciba 3323	1.0	1.0	1.0	40.7*	50.7	45.7
Willcross 94	1.0	1.1	1.0	39.5	51.4	45.4
Pioneer Variety 9394	1.1	1.1	1.1	36.3	53.9*	45.1
Lewis 388	1.0	1.0	1.0	40.3	49.7	45.0
Merschman McKinley II	1.0	1.0	1.0	37.3	52.7*	45.0
Reeds Brand 360 SCN	1.8	1.8	1.8	38.2	51.8	45.0
Linford	1.7	2.0	1.8	37.6	51.4	44.5
Fayette	1.4	1.9	1.6	37.7	50.8	44.2
Kruger K3700 SCN	1.0	1.0	1.0	35.6	51.2	43.4
Williams 82 ###	1.1	1.0	1.0	37.2	46.5	41.8
EXPERIMENTAL VARIETIES						
Dairyland DST3125	1.1	1.0	1.0	44.4*	53.5*	49.0*
MPV-8	1.0	1.0	1.0	42.5*	54.2*	48.4*
McAllister Ex.350	1.0	1.0	1.0	41.2*	52.5*	46.8*
MPV-1	1.1	1.3	1.2	38.7	46.1	42.4
MPV-3	1.0	1.0	1.0	35.5	48.5	42.0
Terra E294 ###	1.0	1.0	1.0	36.5	46.8	41.6
AVERAGE	1.1	1.1	1.1	40.8	51.9	46.3
L.S.D. AT .05	0.2	0.2	0.2	4.1	4.1	2.9
C.V.%				8.9	7.0	

TABLE 22. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Chillicothe	Novelty	Mean	Chillicothe	Novelty	Mean
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
NC+ 4A27	1.0	1.0	1.0	41.9*	48.5**	45.2*
ICI D454	1.0	1.0	1.0	44.0*	46.0*	45.0*
Asgrow A4138	2.2	1.2	1.7	41.7*	47.9*	44.8*
Vigoro V443SCN	1.2	1.0	1.1	42.9*	45.8*	44.4*
Pioneer Variety 9451	2.3	1.4	1.8	43.0*	45.5	44.2
Merschman Richmond III	1.0	1.0	1.0	43.0*	45.2	44.1
Stine 4322CN	1.3	1.0	1.2	41.2	47.0*	44.1
Merschman Houston III	2.2	1.6	1.9	40.3	46.0*	43.2
Ohlde 4262N	1.2	1.0	1.1	39.6	46.5*	43.0
Patriot 420N	1.3	1.3	1.3	38.9	46.3*	42.6
Pioneer Variety 9444	1.0	1.1	1.0	39.0	43.5	41.2
AgriPro AP 4201	2.7	1.8	2.2	36.3	45.7*	41.0
Delsoy 4210	1.7	1.7	1.7	35.1	45.3	40.2
Merschman Richmond II	2.2	1.7	2.0	36.6	43.8	40.2
NC+ 5A15 ###	1.0	1.0	1.0	40.9	23.3	32.1
EXPERIMENTAL VARIETIES						
NMSB X4315	1.5	1.0	1.2	44.8**	48.0*	46.4**
LS87-1615	1.3	1.1	1.2	41.8*	45.8*	43.8
ICI Ex4402N	2.3	1.8	2.0	38.8	45.1	42.0
AVERAGE	1.6	1.3	1.4	40.5	44.7	42.6
L.S.D. AT .05	0.6	0.3	0.5	3.2	2.9	2.1
C.V.%				5.6	5.6	
TRIAL AVERAGE	1.2	1.2	1.2	40.7	49.7	45.2

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

TABLE 23. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Brunswick (Carroll County) on the Randy Meyers Farm during 1991-94.

Planted: 17 May 1994
 Harvested: 20 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Sarpy Sandy Loam
 Soil Test: pH=7.4, OM=0.9%, P=67, K=211

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Frontier + Scepter
 Post: Galaxy
 Irrigation: 0.00 Inches
 Previous Crop: Flooded

Cyst Nematode Population at Harvest: 2640 Eggs / 250cc of Soil

Cyst Nematode Race: Race = 3

Growing Season Rainfall: May=1.3, June=1.9, July=3.9, Aug.=2.1, Sept.=2.2, TOTAL=11.4 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	10-01							
Pioneer Variety 9362	10-02	24.0	1.3	37.6**	--	--	--	--
Lewis 391	10-03	26.5	1.5	35.8*	--	--	--	--
Asgrow A3431	10-01	27.3	1.3	35.1*	62.9*	--	49.0	--
Fayette	10-02	28.0	1.8	34.1*	58.0	34.7	46.1	42.3
Dairyland DSR-373	9-29	23.5	1.4	33.7*	57.8	49.3*	45.8	46.9
Bergman-Taylor 399C	10-01	25.5	1.6	33.7*	59.6	42.2	46.7	45.2
Golden Harvest H-1358	9-29	24.5	1.4	33.1*	63.4*	46.3*	48.3	47.6
Linford	10-03	31.5	2.5	32.4*	58.3	41.6	45.3	44.1
M/W Genetics G 3860	10-02	26.8	1.5	30.7*	--	--	--	--
Pioneer Variety 9394	10-03	24.0	1.6	30.6*	--	--	--	--
Saline	10-01	26.3	1.6	30.3*	--	--	--	--
MFA Morsoy 9335SCN	10-01	23.8	1.6	30.2*	--	--	--	--
Lynks 5380	10-03	27.5	1.5	29.9	--	--	--	--
Merschman McKinley II	10-01	21.5	1.8	29.3	--	--	--	--
Reeds Brand 360 SCN	10-03	26.0	2.6	28.8	65.7**	48.9*	47.3	47.8
Yale	10-01	24.3	1.4	27.8	--	--	--	--
Northrup King S39-11	10-01	26.8	1.9	27.6	55.9	47.6*	41.8	43.7
Dyna-Gro 3340	10-01	23.3	1.6	26.9	58.4	41.1	42.7	42.1
Hubner H357N	10-01	23.8	1.6	25.2	--	--	--	--
NeCo 1051N	10-01	22.0	1.4	24.8	--	49.1*	--	--
Patriot 379N	10-01	23.0	1.6	24.7	--	--	--	--
Willcross 94	10-01	23.8	1.8	24.7	--	--	--	--
MFA Morsoy 9338 SCN	10-01	25.3	1.4	24.7	--	--	--	--
Lewis 388	9-29	23.3	1.5	23.7	59.0	47.7*	41.4	43.5
Terra TR 390SCN	9-29	25.5	1.8	23.0	60.4*	41.0	41.7	41.5
Dekalb CX340c	9-29	22.8	1.5	22.7	60.3*	42.9	41.5	42.0
Ciba 3388	9-29	22.0	1.4	22.3	55.7	46.6*	39.0	41.5
Williams 82 ####	10-01	24.5	1.9	21.7	--	33.9	--	--

EXPERIMENTAL VARIETIES

MPV-3	10-01	24.0	1.5	31.3*	--	--	--	--
MPV-8	10-03	20.3	1.5	29.6	--	--	--	--
Terra E294 ###	9-26	23.8	1.1	24.5	--	--	--	--
MPV-1	10-02	24.8	2.0	24.5	--	--	--	--
AVERAGE	10-01	24.7	1.6	28.6	59.0	43.1	43.8	43.6
L.S.D. AT .05	2	2.9	0.4	7.6	5.5	7.6		
C.V.%	0.5	8.5		18.9	8.3	15.7		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	10-05							
Stine 4322CN	10-04	25.7	1.3	35.5**	--	--	--	--
Merschman Richmond III	10-06	29.5	1.6	33.8*	--	--	--	--
Asgrow A4715	10-07	29.3	1.5	33.5*	55.1*	37.7*	44.3	42.1
M/W Genetics G 4280 N	10-04	26.5	1.6	33.5*	--	--	--	--
Terra TS4292	10-06	25.5	1.4	33.1*	--	--	--	--

TABLE 23. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1992	1991	2 Yr.	3 Yr.
McAllister BT 342	10-04	25.3	1.4	33.0*	--	--	--	--
Dekalb CX469c	10-06	32.3	1.8	32.8*	48.9	31.7	40.8	37.8
Asgrow A4138	10-04	26.0	1.6	32.2*	--	--	--	--
Bergman-Taylor 445C	10-07	29.2	1.6	32.1*	--	--	--	--
MFA Morsoy 9345SCN	10-08	30.3	2.0	32.0*	55.6*	32.9	43.8	40.2
Delsoy 4210	10-06	29.3	1.9	31.6*	54.6*	37.2*	43.1	41.1
Dairyland DSR-420	10-01	27.5	1.4	31.6*	--	--	--	--
Mycogen 429	10-06	27.0	1.6	31.3*	--	--	--	--
Merschman Houston III	10-07	25.3	1.7	31.2*	--	--	--	--
Pioneer Variety 9472	10-05	26.8	1.8	30.9*	--	--	--	--
Northrup King S42-32	10-06	29.2	1.4	30.4	--	--	--	--
Pioneer Variety 9451	10-06	27.5	1.8	29.9	--	--	--	--
Bergman-Taylor 435C	10-01	27.8	1.6	29.8	--	--	--	--
ICI D454	10-07	29.0	1.6	29.6	58.2**	--	43.9	--
Bergman-Taylor 413C	10-04	27.5	1.5	29.4	51.4	--	40.4	--
Patriot 420N	10-01	27.8	1.7	28.9	--	--	--	--
Lewis 405	10-01	26.7	1.9	27.7	--	--	--	--
MFA Morsoy 9245 SCN	10-08	29.0	1.6	27.5	--	--	--	--
Merschman Richmond II	10-03	26.8	2.8	26.4	53.3*	41.6*	39.8	40.4
Pioneer Variety 9444	10-03	23.2	1.8	25.7	--	--	--	--
AgriPro AP 4201	10-04	25.2	2.8	21.6	55.7*	--	38.7	--
EXPERIMENTAL VARIETIES								
LS87-1615	10-06	29.5	1.4	31.1*	--	--	--	--
NMSB X4315	10-06	29.0	1.4	29.5	--	--	--	--
5.0 Maturity Group Check##	10-14							
AVERAGE	10-05	27.6	1.7	30.6	50.8	34.6	40.7	38.7
L.S.D. AT .05	2	3.1	0.3	5.0	5.5	7.3		
C.V.%	0.6	9.8		14.3	9.5	18.9		
TRIAL AVERAGE		26.1	1.7	29.5	56.1	40.0	42.8	41.9

-- Data not available.

** Highest yielding variety in the trial.

* Yield not significantly less than the highest yielding variety in the trial.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

Maturity group checks as identified on page 4.

TABLE 24. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Benton City (Audrain County) on the Robert and Bruce Boyes Farm during 1992-94.

Planted: 20 May 1994
 Harvested: 28 September 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=7.0, OM=2.2%, P=36, K=140

Fertilizer: N=0; P₂O₅=60; K₂O=60
 Herbicide: Pre: Dual + Lexone + Lorox
 Post: Blazer, Poast
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 12320 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=2.3, June=3.3, July=0.4, Aug.=4.0, Sept.=1.2, TOTAL=11.2 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	8-31							
Asgrow A3431	9-13	29.5	1.0	42.9*	38.2*	27.0	40.6	36.0
Terra TR 390SCN	9-11	30.3	1.0	42.3*	37.2	32.5**	39.8	37.3
Hubner H357N	9-12	31.5	1.0	41.8*	39.7*	--	40.8	--
Ciba 3388	9-11	31.2	1.0	41.5*	35.9	30.0*	38.7	35.8
Dairyland DSR-373	9-11	30.5	1.0	41.4*	39.9*	31.4*	40.7	37.6
Northrup King S39-11	9-20	34.0	1.3	41.3*	41.0*	31.9*	41.2	38.1
Golden Harvest H-1358	9-13	31.8	1.0	41.0*	--	28.7*	--	--
Dekalb CX340c	9-12	31.0	1.0	40.9*	40.3*	29.6*	40.6	36.9
NeCo 1051N	9-12	30.5	1.0	40.7*	--	--	--	--
Patriot 379N	9-10	31.5	1.0	40.5*	--	--	--	--
MFA Morsoy 9335SCN	9-13	31.7	1.1	40.3*	--	--	--	--
Pioneer Variety 9362	9-10	30.3	1.0	40.2*	38.3*	--	39.3	--
Saline	9-18	34.7	1.1	40.1*	41.1*	--	40.6	--
Lynks 5380	9-16	32.3	1.0	39.8*	38.5*	--	39.2	--
Lewis 388	9-14	31.2	1.0	39.6*	37.4	29.5*	38.5	35.5
MFA Morsoy 9338SCN	9-16	33.5	1.0	39.1*	38.1*	--	38.6	--
Lewis 391	9-14	32.2	1.0	39.1*	--	--	--	--
Pioneer Variety 9394	9-16	34.0	1.3	39.1*	39.2*	--	39.2	--
Dyna-Gro 3340	9-12	31.3	1.0	39.0	35.7	25.1	37.4	33.3
Merschman McKinley II	9-18	28.7	1.0	38.9	38.6*	--	38.8	--
Linford	9-19	36.5	1.7	38.8	39.3*	30.3*	39.1	36.1
M/W Genetics G 3860	9-16	32.7	1.2	38.7	--	--	--	--
Fayette	9-19	37.0	1.5	38.6	40.4*	32.5**	39.5	37.2
Willcross 94	9-13	31.7	1.0	38.5	--	--	--	--
Reeds Brand 360 SCN	9-14	36.0	1.7	38.4	42.5**	29.4*	40.5	36.8
Bergman-Taylor 399C	9-14	30.7	1.0	38.4	35.5	31.4*	37.0	35.1
Yale	9-17	30.3	1.1	38.0	39.2*	--	38.6	--
Williams 82 ####	9-19	34.8	1.3	34.3	38.2*	--	36.3	--

EXPERIMENTAL VARIETIES

MPV-1	9-20	33.8	1.2	43.0**	--	--	--	--
MPV-8	9-16	29.7	1.0	41.1*	--	--	--	--
MPV-3	9-16	29.5	1.0	36.8	--	--	--	--
Terra E294 ###	9-03	30.5	1.0	35.2	--	--	--	--
AVERAGE	9-14	32.0	1.1	39.7	38.0	28.5	38.9	35.4
L.S.D. AT .05	2	1.8	0.2	3.9	4.9	4.8		
C.V. %	0.6	5.0		8.5	11.4	15.0		

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-19							
Northrup King S42-32	9-18	33.5	1.0	41.4**	44.8*	--	43.1	--
Stine 4322CN	9-18	29.8	1.0	40.7*	46.7*	--	43.7	--
Asgrow A4138	9-21	33.3	1.5	40.7*	45.8*	--	43.3	--
M/W Genetics G 4280 N	9-19	30.3	1.0	40.4*	48.6**	--	44.5	--

TABLE 24. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
McAllister BT 342	9-19	29.8	1.0	40.0*	--	--	--	--
Pioneer Variety 9451	9-21	36.3	1.3	39.9*	41.5	--	40.7	--
Merschman Richmond III	9-20	34.8	1.0	39.9*	41.1	--	40.5	--
Mycogen 429	9-20	35.7	1.0	39.9*	--	--	--	--
Patriot 420N	9-21	36.2	1.3	39.8*	--	--	--	--
Terra TS4292	9-19	30.3	1.0	39.6*	45.9*	--	42.8	--
Dairyland DSR-420	9-21	36.8	1.3	39.4*	--	--	--	--
ICI D454	9-21	35.0	1.0	39.3*	47.7*	32.4*	43.5	39.8
Bergman-Taylor 435C	9-21	37.5	1.2	39.1*	--	--	--	--
MFA Morsoy 9245 SCN	9-20	35.0	1.0	38.6*	42.1	--	40.4	--
Lewis 405	9-20	36.7	1.3	38.5*	45.2*	--	41.9	--
Pioneer Variety 9472	9-22	36.0	2.1	38.3*	--	--	--	--
Asgrow A4715	9-24	34.7	1.5	38.1*	--	31.4*	--	--
Bergman-Taylor 445C	9-24	33.8	1.1	38.1*	--	--	--	--
Dekalb CX469c	9-21	39.7	2.0	37.6	45.9*	32.5*	41.8	38.7
AgriPro AP 4201	9-18	35.2	1.5	36.6	43.4	34.8**	40.0	38.3
Bergman-Taylor 413C	9-19	32.2	1.0	36.6	38.4	31.0*	37.5	35.3
Pioneer Variety 9444	9-20	29.5	1.0	36.5	--	--	--	--
Delsoy 4210	9-21	36.0	1.5	35.9	43.7	33.2*	39.8	37.6
Merschman Richmond II	9-18	33.3	1.3	35.3	45.7*	33.0*	40.5	38.0
Merschman Houston III	9-25	36.7	2.2	33.5	42.7	--	38.1	--
MFA Morsoy 9345SCN	9-24	36.8	1.8	32.4	39.1	30.6*	35.8	34.0
EXPERIMENTAL VARIETIES								
LS87-1615	9-22	34.2	1.1	39.6*	--	--	--	--
NMSB X4315	9-22	33.7	1.1	39.3*	--	--	--	--
5.0 Maturity Group Check##	9-28							
AVERAGE	9-21	34.4	1.3	38.4	43.2	30.8	40.8	37.5
L.S.D. AT .05	1	1.7	0.3	3.3	4.5	4.6		
C.V.%	0.2	4.4		7.5	9.3	12.9		
TRIAL AVERAGE		33.1	1.2	39.1	40.0	29.3	39.6	36.1

-- Data not available.

** Highest yielding variety in the trial.

* Yield not significantly less than the highest yielding variety in the trial.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

Maturity group checks as identified on page 4.

TABLE 25. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at two Central Missouri locations (Brunswick and Benton City) during 1994.

Brunswick
 Planted: 17 June 1994
 Harvested: 20 October 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A
 Soil Type: Sarpy Sandy Loam
 Previous Crop: Flooded
 SCN Pop. at Planting: 2640 Eggs
 Growing Season Moisture: 11.4 Inches

Benton City
 Planted: 20 May 1994
 Harvested: 28 September 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A
 Soil Type: Putnam Silt Loam
 Previous Crop: Soybean
 SCN Pop. at Planting: 12320 Eggs
 Growing Season Moisture: 11.2 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Brunswick	Bentn Cty	Mean	Brunswick	Bentn Cty	Mean
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Asgrow A3431	1.3	1.0	1.2	35.1*	42.9*	39.0**
Pioneer Variety 9362	1.3	1.0	1.2	37.6**	40.2*	38.9*
Dairyland DSR-373	1.4	1.0	1.2	33.7*	41.4*	37.6*
Lewis 391	1.5	1.0	1.2	35.8*	39.1*	37.4*
Golden Harvest H-1358	1.4	1.0	1.2	33.1*	41.0*	37.0*
Fayette	1.8	1.5	1.6	34.1*	38.6	36.4*
Bergman-Taylor 399C	1.6	1.0	1.3	33.7*	38.4	36.0*
Linford	2.5	1.7	2.1	32.4*	38.8	35.6*
MFA Morsoy 9335 SCN	1.6	1.1	1.4	30.2*	40.3*	35.2*
Saline	1.6	1.1	1.4	30.3*	40.1*	35.2*
Pioneer Variety 9394	1.6	1.3	1.4	30.6*	39.1*	34.8
Lynks 5380	1.5	1.0	1.2	29.9	39.8*	34.8
M/W Genetics G 3860	1.5	1.2	1.4	30.7*	38.7	34.7
Northrup King S39-11	1.9	1.3	1.6	27.6	41.3*	34.4
Merschman McKinley II	1.8	1.0	1.4	29.3	38.9	34.1
Reeds Brand 360 SCN	2.6	1.7	2.2	28.8	38.4	33.6
Hubner H357N	1.6	1.0	1.3	25.2	41.8*	33.5
Dyna-Gro 3340	1.6	1.0	1.3	26.9	39.0	33.0
Yale	1.4	1.1	1.2	27.8	38.0	32.9
NeCo 1051N	1.4	1.0	1.2	24.8	40.7*	32.8
Patriot 379N	1.6	1.0	1.3	24.7	40.5*	32.6
Terra TR 390SCN	1.8	1.0	1.4	23.0	42.3*	32.6
MFA Morsoy 9338 SCN	1.4	1.0	1.2	24.7	39.1*	31.9
Ciba 3388	1.4	1.0	1.2	22.3	41.5*	31.9
Dekalb CX340c	1.5	1.0	1.2	22.7	40.9*	31.8
Willcross 94	1.8	1.0	1.4	24.7	38.5	31.6
Lewis 388	1.5	1.0	1.2	23.7	39.6*	31.6
Williams 82 ###	1.9	1.3	1.6	21.7	34.3	28.0
EXPERIMENTAL VARIETIES						
MPV-8	1.5	1.0	1.2	29.6	41.1*	35.4*
MPV-3	1.5	1.0	1.2	31.3*	36.8	34.0
MPV-1	2.0	1.2	1.6	24.5	43.0**	33.8
Terra E294 ###	1.1	1.0	1.0	24.5	35.2	29.8
AVERAGE	1.6	1.1	1.4	28.6	39.7	34.1
L.S.D. AT .05	0.4	0.2	0.2	7.6	3.9	3.9
C.V.%				18.9	8.5	
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Stine 4322CN	1.3	1.0	1.2	35.5**	40.7*	38.1**
M/W Genetics G 4280 N	1.6	1.0	1.3	33.5*	40.4*	37.0*
Merschman Richmond III	1.6	1.0	1.3	33.8*	39.9*	36.8*
McAllister BT 342	1.4	1.0	1.2	33.0*	40.0*	36.5*
Terra TS4292	1.4	1.0	1.2	33.1*	39.6*	36.4*
Asgrow A4138	1.6	1.5	1.6	32.2*	40.7*	36.4*
Northrup King S42-32	1.4	1.0	1.2	30.4	41.4**	35.9*
Asgrow A4715	1.5	1.5	1.5	33.5*	38.1*	35.8*
Mycogen 429	1.6	1.0	1.3	31.3*	39.9*	35.6*
Dairyland DSR-420	1.4	1.3	1.4	31.6*	39.4*	35.5*

TABLE 25. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Brunswck	Bentn Cty	Mean	Brunswck	Bentn Cty	Mean
Dekalb CX469c	1.8	2.0	1.9	32.8*	37.6	35.2*
Bergman-Taylor 445C	1.6	1.1	1.4	32.1*	38.1*	35.1*
Pioneer Variety 9451	1.8	1.3	1.6	29.9	39.9*	34.9
Pioneer Variety 9472	1.8	2.1	2.0	30.9*	38.3*	34.6
ICI D454	1.6	1.0	1.3	29.6	39.3*	34.4
Bergman-Taylor 435C	1.6	1.2	1.4	29.8	39.1*	34.4
Patriot 420N	1.7	1.3	1.5	28.9	39.8*	34.4
Delsoy 4210	1.9	1.5	1.7	31.6*	35.9	33.8
Lewis 405	1.9	1.3	1.6	27.7	38.5*	33.1
MFA Morsoy 9245 SCN	1.6	1.0	1.3	27.5	38.6*	33.0
Bergman-Taylor 413C	1.5	1.0	1.2	29.4	36.6	33.0
Merschman Houston III	1.7	2.2	2.0	31.2*	33.5	32.4
MFA Morsoy 9345 SCN	2.0	1.8	1.9	32.0*	32.4	32.2
Pioneer Variety 9444	1.8	1.0	1.4	25.7	36.5	31.1
Merschman Richmond II	2.8	1.3	2.0	26.4	35.3	30.8
AgriPro AP 4201	2.8	1.5	2.2	21.6	36.6	29.1
EXPERIMENTAL VARIETIES						
LS87-1615	1.4	1.1	1.2	31.1*	39.6*	35.4*
NMSB X4315	1.4	1.1	1.2	29.5	39.3*	34.4
AVERAGE	1.7	1.3	1.5	30.6	38.4	34.5
L.S.D. AT .05	0.3	0.3	0.3	5.0	3.3	3.0
C.V. %				14.3	7.5	
TRIAL AVERAGE	1.7	1.2	1.4	29.5	39.1	34.3

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

TABLE 26. Performance of Soybean Cyst Varieties evaluated near Garden City (Cass County) on the Jim Kircher Farm during 1994.

Planted: 17 May 1994
 Harvested: 12 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Haig Silt Loam
 Soil Test: pH=6.5, OM=2.3%, P=56, K=189

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Triccept
 Post: Poast+, Agri-dex
 Irrigation: 0.00 Inches
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 6200 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 3
 Growing Season Rainfall: May=1.5, June=5.3, July=2.7, Aug.=3.7, Sept.=5.3, TOTAL=18.5 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.

MATURITY GROUP 3

COMMERCIAL VARIETIES

3.0 Maturity Group Check##	9-02							
Ciba 3388	9-06	41.2	1.5	52.1**	--	--	--	--
Patriot 379N	9-07	41.5	1.7	51.0	--	--	--	--
Terra TS390SCN	9-08	42.3	1.5	51.0	--	--	--	--
Dyna-Gro 3340	9-09	43.8	1.7	50.2	--	--	--	--
Pioneer Variety 9394	9-12	46.2	1.8	49.8	--	--	--	--
Saline	9-13	47.0	3.0	48.9	--	--	--	--
Linford	9-13	46.5	4.8	47.2	--	--	--	--
AVERAGE	9-10	44.1	2.3	50.0	--	--	--	--
L.S.D. AT .05	1	2.2	0.7	NS				
C.V. %	0.3	4.3		7.0				

MATURITY GROUP 4

COMMERCIAL VARIETIES

4.0 Maturity Group Check##	9-13							
Manokin	10-03	44.2	3.7	56.5*	--	--	--	--
Midland 8475	9-20	45.3	1.2	56.3*	--	--	--	--
Patriot 420N	9-17	48.7	3.0	56.0*	--	--	--	--
Pioneer Variety 9491	9-21	37.0	2.5	55.8*	--	--	--	--
MFA Morsoy 9345SCN	9-20	49.8	3.5	54.6*	--	--	--	--
Patriot 482N	9-20	49.2	3.7	54.4*	--	--	--	--
MFA Morsoy 9245SCN	9-17	47.3	1.5	54.2*	--	--	--	--
Pioneer Variety 9451	9-17	48.8	4.0	53.6	--	--	--	--
Northrup King S46-44	9-18	48.2	2.5	53.3	--	--	--	--
Dekalb CX469c	9-18	49.8	3.2	53.3	--	--	--	--
Terra TS4292	9-13	43.8	4.0	52.8	--	--	--	--
Pioneer Variety 9472	9-20	47.0	4.3	52.8	--	--	--	--
Patriot 452N	9-14	47.5	1.5	52.7	--	--	--	--
Delsoy 4710	9-21	52.3	3.2	52.7	--	--	--	--
Northrup King S42-32	9-13	47.8	5.0	52.6	--	--	--	--
Delsoy 4500	9-20	47.7	2.2	52.4	--	--	--	--
Pioneer Variety 9444	9-13	41.8	2.8	52.3	--	--	--	--
NC+ 4A27	9-14	44.2	3.2	51.2	--	--	--	--
Delsoy 4210	9-16	47.2	3.8	51.2	--	--	--	--
Terra TS 4792	9-20	55.0	1.8	50.1	--	--	--	--

EXPERIMENTAL VARIETIES

NMSB X4315	9-19	47.0	1.5	57.6**	--	--	--	--
MPV-5	10-06	45.8	1.8	49.0	--	--	--	--
MPV-7	9-20	54.2	1.7	48.7	--	--	--	--
MPV-2	10-04	47.5	2.5	46.3	--	--	--	--
AVERAGE	9-20	47.4	2.8	52.9	--	--	--	--
L.S.D. AT .05	1	2.6	0.9	3.6				
C.V. %	0.3	4.8		6.0				

TABLE 26. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Matu- rity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 5							
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-30							
NC+ 5A15	10-01	42.3	1.0	51.9**	--	--	--	--
Avery	9-29	61.8	2.8	48.3*	--	--	--	--
Delsoy 4900	10-03	47.5	4.2	47.2	--	--	--	--
Essex #####	10-03	42.2	1.7	46.8	--	--	--	--
MFA Morsoy 9152SCN	10-05	41.2	1.7	45.8	--	--	--	--
Hartwig	10-06	45.8	5.0	34.0	--	--	--	--
6.0 Maturity Group Check##	10-06							
AVERAGE	10-03	46.8	2.7	45.7	--	--	--	--
L.S.D. AT .05	2	2.7	0.7	4.6				
C.V.%	0.7	4.9		8.4				
TRIAL AVERAGE		46.7	2.7	51.2	--	--	--	--

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

Maturity group checks as identified on page 4.

NS Not significant at the .05 level.

TABLE 27. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1992-94.

Planted: 18 May 1994
 Harvested: 29 Sept., 20 Oct. 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.1, OM=1.6%, P=116, K=341

Fertilizer: N=0; P₂O₅=0; K₂O=44
 Herbicide: Pre: Lasso + Lexone + Lorox
 Post: Poast+, Agri-dex
 Irrigation: 0.00 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 15,500 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 5
 Growing Season Rainfall: May=2.8, June=3.4, July=6.9, Aug.=7.8, Sept.=7.2, TOTAL=28.1 Inches

Brand-Variety	1994							
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	Yield (Bu/Acre)			Means	
				1994	1993	1992	2 Yr.	3 Yr.
MATURITY GROUP 3								
COMMERCIAL VARIETIES								
3.0 Maturity Group Check##	9-17							
Saline	9-23	38.3	2.8	47.0**	30.2*	--	38.6	--
Pioneer Variety 9394	9-21	38.3	2.3	45.5*	29.5	--	37.5	--
Linford	9-23	39.3	4.3	43.5	30.4*	44.8**	37.0	39.6
Terra TS390SCN	9-22	35.3	1.5	40.6	32.1**	42.4*	36.4	38.4
Patriot 379N	9-21	36.3	1.2	40.0	--	--	--	--
Ciba 3388	9-21	35.2	1.0	39.8	--	--	--	--
Dyna-Gro 3340	9-22	37.0	1.7	38.2	30.4*	--	34.3	--
AVERAGE	9-22	37.1	2.1	42.1	30.2	43.4	36.2	38.7
L.S.D. AT .05	1	2.9	0.6	3.1	2.4	3.5		
C.V.%	0.5	6.8		6.3	6.9	6.6		
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-27							
Manokin	10-03	34.5	3.0	62.4**	38.8**	46.7**	50.6	49.3
MFA Morsoy 9345SCN	10-03	47.3	3.0	60.2*	34.9*	45.3*	47.6	46.8
Midland 8475	10-03	39.7	1.3	59.5*	--	--	--	--
Delsoy 4710	10-04	45.5	4.0	58.5*	32.4	41.9	45.5	44.3
Pioneer Variety 9491	10-03	32.5	1.3	58.5*	30.0	--	44.3	--
Northrup King S46-44	10-03	42.3	2.5	57.9	38.0*	42.9*	48.0	46.3
Patriot 482N	10-03	40.5	2.0	56.6	--	--	--	--
Terra TS4792	10-03	47.7	2.5	55.6	36.8*	--	46.2	--
Delsoy 4500	10-03	40.2	1.8	55.0	31.4	42.7*	43.2	43.0
Patriot 452N	10-03	43.0	1.7	54.5	--	--	--	--
Patriot 420N	10-02	42.5	2.0	54.5	--	--	--	--
Northrup King S42-32	10-03	39.7	3.5	53.6	34.7*	--	44.2	--
Dekalb CX469c	10-02	43.0	2.5	53.3	30.2	44.1*	41.8	42.5
Pioneer Variety 9472	10-03	42.7	2.3	52.6	--	--	--	--
MFA Morsoy 9245SCN	10-03	41.5	1.2	51.3	30.4	--	40.8	--
NC+ 4A27	10-03	37.7	1.7	50.2	--	--	--	--
Pioneer Variety 9451	10-02	40.7	2.2	50.2	32.0	--	41.1	--
Delsoy 4210	10-02	41.0	3.0	49.1	25.8	44.5*	37.5	39.8
Terra TS4292	10-03	36.2	1.3	48.4	31.7	--	40.1	--
Pioneer Variety 9444	10-02	38.0	1.3	45.6	--	--	--	--
EXPERIMENTAL VARIETIES								
MPV-5	10-04	37.5	1.0	60.3*	--	--	--	--
MPV-7	10-03	48.7	2.0	57.1	--	--	--	--
NMSB X4315	10-03	43.7	2.0	57.0	--	--	--	--
MPV-2	10-03	37.3	1.5	57.0	--	--	--	--
AVERAGE	10-03	41.0	2.1	55.0	32.2	43.5	43.6	43.6
L.S.D. AT .05	1	2.3	0.9	4.2	4.6	4.0		
C.V.%	0.3	4.9		6.7	12.3	8.1		

TABLE 27. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	10-06							
MFA Morsoy 9152SCN	10-05	32.5	1.0	61.2**	--	--	--	--
NC+ 5A15	10-03	31.5	1.2	59.2*	32.4*	--	45.8	--
Delsoy 4900	10-03	38.7	2.0	56.9*	32.7*	51.4*	44.8	47.0
Avery	10-03	50.5	3.2	51.8	30.5	42.5	41.2	41.6
Essex #####	10-03	32.0	1.0	51.5	--	--	--	--
Hartwig	10-06	33.8	3.8	49.7	27.9	47.5	38.8	41.7
6.0 Maturity Group Check##	10-09							
AVERAGE	10-04	36.5	2.0	55.1	30.0	49.6	42.6	44.9
L.S.D. AT .05	1	4.3	0.7	4.9	3.3	4.1		
C.V.%	0.3	9.8		7.4	9.5	7.1		
TRIAL AVERAGE		39.5	2.1	52.5	31.2	45.5	41.8	43.1

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

Maturity group checks as identified on page 4.

TABLE 28. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southwestern Missouri locations (Garden City and Lamar) during 1994.

Garden City
 Planted: 17 May 1994
 Harvested: 12 October 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.
 Soil Type: Haig Silt Loam
 Previous Crop: Soybean
 SCN Population at Planting: 6200 Eggs
 Growing Season Moisture: 18.5 Inches

Lamar
 Planted: 18 May 1994
 Harvested: 29 Sept., 20 Oct. 1994
 Row Spacing: 30 Inches
 Planted Population: 156,800 Seeds/A.
 Soil Type: Parsons Silt Loam
 Previous Crop: Corn
 SCN Population at Planting: 15500 Eggs
 Growing Season Moisture: 28.1 Inches

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Garden City	Lamar	Mean
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Saline	3.0	2.8	2.9	48.9	47.0**	48.0**
Pioneer Variety 9394	1.8	2.3	2.0	49.8	45.5*	47.6*
Ciba 3388	1.5	1.0	1.2	52.1**	39.8	46.0*
Terra TS390SCN	1.5	1.5	1.5	51.0	40.6	45.8*
Patriot 379N	1.7	1.2	1.4	51.0	40.0	45.5*
Linford	4.8	4.3	4.6	47.2	43.5	45.4
Dyna-Gro 3340	1.7	1.7	1.7	50.2	38.2	44.2
AVERAGE	2.3	2.1	2.2	50.0	42.1	46.1
L.S.D. AT .05	0.7	0.6	0.6	NS	3.1	2.5
C.V. %				7.0	6.3	
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Manokin	3.7	3.0	3.4	56.5*	62.4**	59.4**
Midland 8475	1.2	1.3	1.2	56.3*	59.5*	57.9*
MFA Morsoy 9345SCN	3.5	3.0	3.2	54.6*	60.2*	57.4*
Pioneer Variety 9491	2.5	1.3	1.9	55.8*	58.5*	57.2*
Northrup King S46-44	2.5	2.5	2.5	53.3	57.9	55.6*
Delsoy 4710	3.2	4.0	3.6	52.7	58.5*	55.6*
Patriot 482N	3.7	2.0	2.8	54.4*	56.6	55.5
Patriot 420N	3.0	2.0	2.5	56.0*	54.5	55.2
Delsoy 4500	2.2	1.8	2.0	52.4	55.0	53.7
Patriot 452N	1.5	1.7	1.6	52.7	54.5	53.6
Dekalb CX469c	3.2	2.5	2.8	53.3	53.3	53.3
Northrup King S42-32	5.0	3.5	4.2	52.6	53.6	53.1
Terra TS479Z	1.8	2.5	2.2	50.1	55.6	52.8
MFA Morsoy 9245SCN	1.5	1.2	1.4	54.2*	51.3	52.8
Pioneer Variety 9472	4.3	2.3	3.3	52.8	52.6	52.7
Pioneer Variety 9451	4.0	2.2	3.1	53.6	50.2	51.9
NC+ 4A27	3.2	1.7	2.4	51.2	50.2	50.7
Terra TS4292	4.0	1.3	2.6	52.8	48.4	50.6
Delsoy 4210	3.8	3.0	3.4	51.2	49.1	50.2
Pioneer Variety 9444	2.8	1.3	2.0	52.3	45.6	49.0
EXPERIMENTAL VARIETIES						
NMSB X4315	1.5	2.0	1.8	57.6**	57.0	57.3*
MPV-5	1.8	1.0	1.4	49.0	60.3*	54.6
MPV-7	1.7	2.0	1.8	48.7	57.1	52.9
MPV-2	2.5	1.5	2.0	46.3	57.0	51.6
AVERAGE	2.8	2.1	2.5	52.9	55.0	53.9
L.S.D. AT .05	0.9	0.9	0.7	3.6	4.2	3.8
C.V. %				6.0	6.7	
MATURITY GROUP 5						
COMMERCIAL VARIETIES						
NC+ 5A15	1.0	1.2	1.1	51.9**	59.2*	55.6**
MFA Morsoy 9152SCN	1.7	1.0	1.4	45.8	61.2**	53.5*
Delsoy 4900	4.2	2.0	3.1	47.2	56.9*	52.0

TABLE 28. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Gardn Cty	Lamar	Mean	Garden City	Lamar	Mean
Avery	2.8	3.2	3.0	48.3*	51.8	50.0
Essex #####	1.7	1.0	1.4	46.8	51.5	49.2
Hartwig	5.0	3.8	4.4	34.0	49.7	41.8
AVERAGE	2.7	2.0	2.4	45.7	55.1	50.4
L.S.D. AT .05	0.7	0.7	0.6	4.6	4.9	3.3
C.V.%				8.4	7.4	
TRIAL AVERAGE	2.7	2.1	2.4	51.2	52.5	51.9

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

NS Not significant at the .05 level.

TABLE 29. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Bertrand (Mississippi County) on the Arington Farms during 1992-94.

Planted: 12 May 1994
 Harvested: 28 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Clana Loamy Fine Sand
 Soil Test: pH=5.9, OM=1.1%, P=164, K=437

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Prowl + Scepter
 Post: Reflex, Fusilade
 Irrigation: 3.75 Inches
 Previous Crop: Corn

Cyst Nematode Population at Planting: 21900 Eggs / 250cc of Soil
 Cyst Nematode Race: Race = 5
 Growing Season Rainfall: May=1.4, June=4.2, July=3.0, Aug.=0.8, Sept.=2.8, TOTAL=12.2 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 3							
COMMERCIAL VARIETIES								
Terra TS 390SCN ###	9-19	30.7	1.3	19.8	31.0	38.5*	25.4	29.8
AVERAGE	9-19	30.7	1.3	19.8	32.2	38.5	26.0	30.7
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	9-17							
Delsoy 4210	9-21	29.3	1.5	31.6**	42.5*	41.6**	37.1	38.6
Delsoy 4710	9-23	35.2	1.5	31.0*	37.7*	36.5*	34.4	35.1
MFA Morsoy 9345SCN	9-21	34.5	1.6	30.9*	41.1*	39.4*	36.0	37.1
Delsoy 4500	9-21	29.8	1.4	30.1*	34.4	33.9	32.3	32.8
Terra TS4292	9-21	28.2	1.4	29.9*	31.9	--	30.9	--
Manokin	10-01	22.5	1.3	29.5*	43.7**	41.2*	36.6	38.1
Pioneer Variety 9451	9-21	30.2	1.5	29.4*	38.9*	--	34.2	--
Pioneer Variety 9444	9-22	25.8	1.2	28.9*	--	--	--	--
Northrup King S46-44	9-22	29.8	1.4	28.7*	36.5*	--	32.6	--
Pioneer Variety 9472	9-21	29.2	1.5	27.1*	--	--	--	--
Dekalb CX469c	9-21	31.2	1.5	26.9*	38.4*	32.9	32.7	32.7
Hyperformer HY 458	9-21	23.5	1.3	26.6*	--	--	--	--
Lynks 5451	9-21	28.7	1.4	25.8*	--	--	--	--
AgraTech FFR 474	9-21	32.5	1.5	24.7*	--	--	--	--
Terra TS4792	9-21	36.7	1.4	24.1*	33.1	--	28.6	--
Southern Cross David	9-21	28.5	1.3	22.7*	--	--	--	--
ICI D485	9-22	29.2	1.3	18.7	30.2	--	24.5	--
EXPERIMENTAL VARIETIES								
HyPerformer HB4-X485	9-23	38.5	1.4	27.9*	--	--	--	--
Hyperformer HB4-X497	9-22	27.7	1.4	27.5*	--	--	--	--
ICI Ex4473N	9-21	27.8	1.4	26.6*	--	--	--	--
Hyperformer HB4-X463	9-21	34.8	1.5	24.9*	--	--	--	--
MPV-7	9-22	30.5	1.3	23.6*	--	--	--	--
MPV-2	10-01	25.8	1.4	22.5*	--	--	--	--
MPV-5	9-27	23.0	1.3	17.0	--	--	--	--
AVERAGE	9-22	29.7	1.4	26.3	34.3	27.2	30.3	29.3
L.S.D. AT .05	2	5.8	NS	9.3	7.3	6.5		
C.V. %	0.8	17.4		30.4	17.2	20.9		
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-28							
AgraTech FFR 514	9-27	26.3	1.2	32.3*	--	--	--	--
Hartwig	10-07	23.0	1.1	31.7*	42.8**	49.8**	37.3	41.4
Hyperformer HSC 557	10-03	35.7	1.3	31.2*	34.2	38.7	32.7	34.7
Avery	9-29	35.7	1.3	30.5*	33.9	34.2	32.2	32.9
AgraTech AT 555	10-03	23.3	1.1	29.3*	33.2	--	31.3	--

TABLE 29. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
Asgrow A5885	10-06	25.7	1.1	28.9*	--	--	--	--
MFA Morsoy 9152SCN	10-05	17.7	1.0	28.1*	33.0	--	30.6	--
Pioneer Variety 9551	10-03	23.5	1.3	28.1*	38.9*	39.5	33.5	35.5
Southern Cross Samuel	10-06	18.0	1.0	25.4	--	--	--	--
Pioneer Variety 9521	9-28	19.7	1.1	24.7	41.0*	39.0	32.9	34.9
Asgrow A5560	10-04	19.7	1.1	22.7	--	25.8	--	--
Delsoy 4900	10-04	21.2	1.1	19.0	27.9	25.5	23.5	24.1
Essex #####	9-27	17.3	1.2	18.0	--	--	--	--
6.0 Maturity Group Check##	10-12							
AVERAGE	10-03	23.6	1.1	27.5	34.5	34.0	31.0	32.0
L.S.D. AT .05	4	4.6	NS	7.0	6.3	7.0		
C.V.%	1.4	17.0		22.1	15.8	18.0		
TRIAL AVERAGE		27.5	1.3	26.7	34.4	31.7	30.6	30.8

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Maturity group 3 variety tested in maturity group 4.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

Maturity group checks as identified on page 4.

NS Not significant at the .05 level.

TABLE 30. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Clarkton (Dunklin County) on the Delta Research Center Rhodes Farm during 1992-94.

Planted: 19 May 1994
 Harvested: 28 October 1994
 Planted Population: 156,800 Seeds/A.
 Row Spacing: 30 Inches
 Soil Type: Bosket Fine Sandy Loam
 Soil Test: pH=5.2, OM=1.2%, P=126, K=358

Fertilizer: N=0; P₂O₅=0; K₂O=0
 Herbicide: Pre: Tri-4 + Scepter
 Post: Select + Agri-dex
 Irrigation: 1.00 Inch
 Previous Crop: Soybean

Cyst Nematode Population at Planting: 3650 eggs / 250cc of soil
 Cyst Nematode Race: Race = 5
 Growing Season Rainfall: May=1.5, June=5.4, July=2.4, Aug.=0.2, Sept.=3.0, TOTAL=12.5 Inches

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (In)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
	MATURITY GROUP 3							
COMMERCIAL VARIETIES								
Terra TS390SCN ###	9-01	30.3	1.4	19.1	32.6	33.3	25.9	28.3
AVERAGE	9-01	30.3	1.4	19.1	32.9	33.3	28.3	29.6
MATURITY GROUP 4								
COMMERCIAL VARIETIES								
4.0 Maturity Group Check##	8-28							
Pioneer Variety 9472	9-12	33.0	1.6	34.2*	--	--	--	--
Hyperformer HY 458	9-11	32.3	1.5	33.9*	--	--	--	--
Delsoy 4710	9-20	40.5	1.5	31.6*	39.8**	59.5**	35.7	43.6
Lynks 5451	9-08	33.7	1.5	30.4*	--	--	--	--
AgraTech FFR 474	9-16	37.8	2.0	29.9	--	--	--	--
Northrup King S46-44	9-12	35.5	1.5	29.8	35.0*	--	32.4	--
Terra TS4792	9-17	42.8	1.7	29.5	34.1	--	31.8	--
Southern Cross David	9-10	33.8	1.4	28.9	--	--	--	--
Pioneer Variety 9451	9-11	31.8	1.5	28.2	38.7*	--	33.5	--
Manokin	9-26	27.8	1.4	27.6	29.6	56.6*	28.6	37.9
ICI D485	9-17	34.5	1.4	27.3	37.8*	--	32.6	--
Delsoy 4210	9-11	36.3	1.7	26.6	35.3*	50.6*	31.0	37.5
MFA Morsoy 9345SCN	9-16	37.7	1.6	26.6	35.4*	56.1*	31.0	39.4
Delsoy 4500	9-16	32.7	1.5	25.9	31.0	36.6	28.5	31.2
Dekalb CX469c	9-10	36.7	1.8	25.7	35.8*	51.2*	30.8	37.6
Terra TS4292	9-08	29.8	1.5	24.2	26.7	--	25.5	--
Pioneer Variety 9444	9-08	29.7	1.4	22.3	--	--	--	--
EXPERIMENTAL VARIETIES								
MPV-5	9-27	28.3	1.4	39.1**	--	--	--	--
MPV-2	9-26	30.8	1.2	37.5*	--	--	--	--
Hyperformer HB4-X497	9-14	31.3	1.5	31.7*	--	--	--	--
ICI Ex4473N	9-16	36.0	1.6	30.8*	--	--	--	--
HyPerformer HB4-X485	9-18	44.2	1.6	29.1	--	--	--	--
MPV-7	9-15	42.7	1.6	24.0	--	--	--	--
Hyperformer HB4-X463	9-16	43.7	1.8	23.9	--	--	--	--
AVERAGE	9-14	34.9	1.5	28.7	33.9	49.7	31.3	37.4
L.S.D. AT .05	3	3.7	0.3	8.7	5.4	11.4		
C.V. %	1.1	9.5		25.7	12.9	20.0		
MATURITY GROUP 5								
COMMERCIAL VARIETIES								
5.0 Maturity Group Check##	9-27							
AgraTech FFR 514	9-27	28.8	1.1	49.6**	--	--	--	--
MFA Morsoy 9152SCN	10-05	21.2	1.0	47.7*	15.0	--	31.4	--
Hartwig	10-03	26.2	1.0	47.5*	27.8*	40.3	37.7	38.5
AgraTech AT 555	10-05	26.5	1.2	47.0*	21.2	--	34.1	--
Asgrow A5560	9-28	30.0	1.1	43.6*	--	40.4	--	--

TABLE 30. Continued.

Brand-Variety	1994			Yield (Bu/Acre)			Means	
	Maturity Date	Plant Height (in)	Lodging Score (1-5)	1994	1993	1992	2 Yr.	3 Yr.
Hyperformer HSC 557	10-12	41.7	1.6	43.6*	32.3**	54.2**	38.0	43.4
Southern Cross Samuel	10-03	20.0	1.0	43.5*	--	--	--	--
Pioneer Variety 9521	9-27	28.3	1.0	42.8*	18.2	29.3	30.5	30.1
Asgrow A5885	10-04	31.2	1.3	42.6*	--	--	--	--
Pioneer Variety 9551	9-28	26.5	1.1	38.2	24.3*	37.2	31.3	33.2
Delsoy 4900	9-26	27.0	1.2	36.3	17.3	27.3	26.8	27.0
Essex #####	9-28	19.8	1.0	32.7	--	--	--	--
Avery	9-26	42.5	1.5	31.3	16.0	40.6	23.7	29.3
6.0 Maturity Group Check##	10-14							
AVERAGE	10-02	28.4	1.2	42.3	19.6	36.4	31.0	32.8
L.S.D. AT .05	3	5.8	0.2	7.6	8.6	9.0		
C.V. %	1.0	17.8		15.6	37.9	21.7		
TRIAL AVERAGE		32.6	1.4	33.6	26.8	41.4	30.2	33.9

-- Data not available.

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

Maturity group checks as identified on page 4.

TABLE 31. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southeastern Missouri locations (Bertrand and Clarkton) during 1994.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean
Soil Type: Clana Loamy Fine Sand						
Previous Crop: Corn						
SCN Population at Planting: 21900 Eggs						
Growing Season Moisture: 17.7 Inches						
Soil Type: Bosket Fine Sandy Loam						
Previous Crop: Soybean						
SCN Population at Planting: 3650 Eggs						
Growing Season Moisture: 12.5 Inches						
MATURITY GROUP 3						
COMMERCIAL VARIETIES						
Terra TS390SCN ###	1.3	1.4	1.4	19.8	19.1	19.4
AVERAGE	1.3	1.4	1.4	19.8	19.1	19.4
MATURITY GROUP 4						
COMMERCIAL VARIETIES						
Delsoy 4710	1.5	1.5	1.5	31.0*	31.6*	31.3**
Pioneer Variety 9472	1.5	1.6	1.6	27.1*	34.2*	30.6*
Hyperformer HY 458	1.3	1.5	1.4	26.6*	33.9*	30.2*
Northrup King S46-44	1.4	1.5	1.4	28.7*	29.8	29.2*
Delsoy 4210	1.5	1.7	1.6	31.6**	26.6	29.1*
Pioneer Variety 9451	1.5	1.5	1.5	29.4*	28.2	28.8*
MFA Morsoy 9345SCN	1.6	1.6	1.6	30.9*	26.6	28.8*
Manokin	1.3	1.4	1.4	29.5*	27.6	28.6*
Lynks 5451	1.4	1.5	1.4	25.8*	30.4*	28.1*
Delsoy 4500	1.4	1.5	1.4	30.1*	25.9	28.0*
AgraTech FFR 474	1.5	2.0	1.8	24.7*	29.9	27.3*
Terra TS4292	1.4	1.5	1.4	29.9*	24.2	27.0*
Terra TS4792	1.4	1.7	1.6	24.1*	29.5	26.8*
Dekalb CX469c	1.5	1.8	1.6	26.9*	25.7	26.3*
Southern Cross David	1.3	1.4	1.4	22.7*	28.9	25.8*
Pioneer Variety 9444	1.2	1.4	1.3	28.9*	22.3	25.6*
ICI D485	1.3	1.4	1.4	18.7	27.3	23.0
EXPERIMENTAL VARIETIES						
MPV-2	1.4	1.2	1.3	22.5*	37.5*	30.0*
Hyperformer HB4-X497	1.4	1.5	1.4	27.5*	31.7*	29.6*
ICI Ex4473N	1.4	1.6	1.5	26.6*	30.8*	28.7*
HyPerformer HB4-X485	1.4	1.6	1.5	27.9*	29.1	28.5*
MPV-5	1.3	1.4	1.4	17.0	39.1**	28.0*
Hyperformer HB4-X463	1.5	1.8	1.6	24.9*	23.9	24.4
MPV-7	1.3	1.6	1.4	23.6*	24.0	23.8
AVERAGE	1.4	1.5	1.5	26.3	28.7	27.5
L.S.D. AT .05	NS	0.3	0.4	9.3	8.7	6.4
C.V. %				30.4	25.7	
MATURITY GROUP 5						
COMMERCIAL VARIETIES						
AgraTech FFR 514	1.2	1.1	1.2	32.3*	49.6**	41.0**
Hartwig	1.1	1.0	1.0	31.7*	47.5*	39.6*
AgraTech AT 555	1.1	1.2	1.2	29.3*	47.0*	38.2*
MFA Morsoy 9152SCN	1.0	1.0	1.0	28.1*	47.7*	37.9*
Hyperformer HSC 557	1.3	1.6	1.4	31.2*	43.6*	37.4*
Asgrow A5885	1.1	1.3	1.2	28.9*	42.6*	35.8
Southern Cross Samuel	1.0	1.0	1.0	25.4	43.5*	34.4

TABLE 31. Continued.

Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean
Pioneer Variety 9521	1.1	1.0	1.0	24.7	42.8*	33.8
Pioneer Variety 9551	1.3	1.1	1.2	28.1*	38.2	33.2
Asgrow A5560	1.1	1.1	1.1	22.7	43.6*	33.2
Avery	1.3	1.5	1.4	30.5*	31.3	30.9
Delsoy 4900	1.1	1.2	1.2	19.0	36.3	27.6
Essex #####	1.2	1.0	1.1	18.0	32.7	25.4
AVERAGE	1.1	1.2	1.2	27.5	42.3	34.9
L.S.D. AT .05	NS	0.2	0.2	7.0	7.6	5.1
C.V. %				22.1	15.6	
TRIAL AVERAGE	1.3	1.4	1.4	26.7	33.6	30.1

** Highest yielding variety in the maturity group.

* Yield not significantly less than the highest yielding variety in the same maturity group.

Susceptible check variety.

Variety is not grouped as originally entered, but due to available maturity groups the variety was tested in a different maturity group.

NS Not significant at the .05 level.

TABLE 32. CHARACTERISTICS OF SOYBEAN VARIETIES AND BLENDS*.

Brand	Variety Brand Blend	Exp. Variety	Mat- ury Group	Color				Phyto- phthora Root Rot	Cyst Nematode Reaction Company UMC Screening	Race1	Race3	Race14
				Flower	Pod	Pubes.	Hilum					
COMMERCIAL VARIETIES OR BLENDS												
AgraTech FFR 474	V	NO	4	W	BR	BR	BL	T	S	S	R	MR
AgraTech FFR 493	V	NO	4	P	TN	G	BF	T	S	-	R	-
AgraTech FFR 514	V	NO	5	P	BR	BR	BL	T	R	MR	R	MR
AgraTech FFR 542	V	NO	5	P	TN	G	IBL	T	R	MS	R	MR
AgraTech FFR 563	V	NO	5	P	TN	G	IBL	T	R	MS	R	MR
AgraTech AT 555	V	NO	5	W	TN	G	IBL	T	R	MS	R	MR
AgriPro AP 3727	V	NO	3	P	TN	TW	BL	S	S	-	-	-
AgriPro AP 3799	V	NO	3	P	TN	TW	BL	R	S	-	-	-
AgriPro AP 3990	V	NO	3	P	BR	TW	BL	S	S	-	-	-
AgriPro AP 4100	V	NO	4	P	TN	TW	BR	S	S	-	-	-
AgriPro AP 4201	V	NO	4	W	TN	TW	BR	R	R	MS	R	MR
Asgrow A3237	V	NO	3	P	TN	TN	BL	R	S	-	-	-
Asgrow A3313	V	NO	3	P	TN	TW	BL	R	R	S	-	-
Asgrow A3431	V	NO	3	P	BR	G	IBL	R	R	MS	MR	MS
Asgrow A3510	V	NO	3	P	TN	TN	BL	R	S	-	-	-
Asgrow A4138	V	NO	4	W	TN	TN	BL	S	S	MS	R	MR
Asgrow A4415	V	NO	4	P	BR	TN	BL	S	S	-	-	-
Asgrow A4539	V	NO	4	W	TN	TN	BL	R	R	MS	R	MR
Asgrow A4715	V	NO	4	W	TN	TN	BL	S	S	MS	R	MR
Asgrow A5112	V	NO	5	W	BR	G	BF	S	R	MS	R	MR
Asgrow A5403	V	NO	5	P	BR	G	IBL	S	R	MS	R	MR
Asgrow A5560	V	NO	5	P	TN	TW	BL	S	R	MS	R	R
Asgrow A5843	V	NO	5	W	TN	G	BL	S	R	MS	R	MR
Asgrow A5885	V	NO	5	W	TN	TW	BL	S	R	MS	R	MR
Bergmann-Taylor 385-ST5	BR	NO	3	W	BR	TW	BR/BL	T	S	-	-	-
Bergmann-Taylor 399C	BR	NO	3	W	TW	TW	BL	T	R	MS	R	MS
Bergmann-Taylor 413C	BR	NO	4	W	BR	TW	BL	T	R	MS	R	MS
Bergmann-Taylor 435C	BR	NO	4	P	TW	TW	BL	T	R	MS	R	MR
Bergmann-Taylor 445C	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MS
Bergmann-Taylor 484	BR	NO	4	P	BR	TW	BL	T	S	-	-	-
Buckshot 44	BR	NO	4	W	BR	G	IBL	R	R	S	S	S
Buckshot 55	BR	NO	5	P	TN	TW	BL	S	R	MS	R	MR
Capehart Stone	V	NO	5	W	TN	G	BF	T	S	-	-	-
Ciba 3323	V	NO	3	W	TN	TW	BL	T	R	MS	R	MS
Ciba 3362	V	NO	3	P	BR	TW	BR	T	S	-	-	-
Ciba 3388	V	NO	3	W	TN	TW	BL	T	R	MS	R	MR
Ciba 3474	V	NO	4	P	BR	TW	BL	T	S	-	-	-
Dairyland DSR-305	V	NO	3	W	BR	TW	IBL	S	S	-	-	-
Dairyland DSR-317	V	NO	3	W	TN	TW	BL	S	S	-	-	-
Dairyland DSR-373	V	NO	3	W	TN	TW	BL	S	R	MS	R	MR
Dairyland DSR-420	V	NO	4	P	TN	TW	BL	S	S	MR	R	MR
Dairyland DST-3125	V	YES	3	W	TN	TW	BL	S	R	MS	R	MS
Dairyland DST-3206	V	YES	3	W	BR	TW	BL	S	S	-	-	-
Dekalb CX340c	V	NO	3	W	TN	TW	BL	S	R	MS	R	MS
Dekalb CX377	V	NO	3	W	TN	TW	BL	R	S	-	-	-
Dekalb CX394c	V	NO	3	P	TN	TW	BL	S	R	MS	R	MS
Dekalb CX399	V	NO	3	W	TN	TW	BL	S	S	-	-	-
Dekalb CX404	V	NO	4	P	TN	TW	BR	S	S	-	-	-
Dekalb CX411	V	NO	4	W	TN	TW	BL	R	S	-	-	-
Dekalb CX434	V	NO	4	P	TN	TW	BL	R	S	-	-	-
Dekalb CX445	V	NO	4	W	TN	TW	BL	R	S	-	-	-
Dekalb CX469c	V	NO	4	P	TN	TW	BL	S	R	MS	R	MR
Dekalb CX478	V	NO	4	W	TN	TW	BL	R	S	-	-	-
Delta King 5475	V	NO	5	W	BR	BR	BL	T	R	R	R	S
Delta King 5850	V	NO	5	W	BR	BR	BL	T	R	MS	R	MR
Deltapine 105	V	NO	5	P	TN	G	IBL	T	T	S	S	S
Deltapine 415	V	NO	5	P	TN	G	IBL	T	R	MS	R	S
Deltapine DP 3456	V	NO	4	W	TN	TW	BL	T	S	-	-	-
Deltapine DP 3478	V	NO	4	P	TN	TW	BL	R	S	-	-	-
Desoy 303E	BL	NO	3	P	BR	TW	M	T	-	-	-	-
Desoy 3333 +	BR	NO	3	P	BR	G	M	T	-	-	-	-
Desoy 3434 +	BR	NO	3	-	-	-	-	-	-	-	-	-
Desoy 3434A	BR	NO	3	-	-	-	-	-	-	-	-	-
Desoy 3535	BR	NO	3	P	BR	TW	BL	T	-	-	-	-
Desoy 3606	BR	YES	3	W	BR	TW	BR	T	-	-	-	-
Desoy 3777	BR	NO	3	P	TN	TW	BR	T	-	-	-	-

TABLE 32. Continued.

Brand	Variety Brand Blend	Exp. Variety	Matu- rity Group	Color				Phyto- phthora Root Rot	Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum		Company Rating	UMC Race1	Screening Race3	Reaction Race14
Desoy 3909+	BR	NO	3	P	BR	TW	BL	T	-	-	-	-
Desoy 3949	BR	NO	3	P	BR	TW	M	T	-	-	-	-
Desoy 4101	BR	NO	4	P	BR	TW	BL	R	-	-	-	-
Desoy 4141	BR	NO	4	W	BR	TW	BL	T	-	-	-	-
Desoy 4242A	BR	YES	4	W	BR	TW	BL	T	-	-	-	-
Dyna-Gro 3290	BR	NO	2	P	TN	TN	BL	T	S	-	-	-
Dyna-Gro 3303	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
Dyna-Gro 3340	BR	NO	3	P	TN	TN	BL	T	S	MS	R	MR
Dyna-Gro 3368	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
Dyna-Gro 3410	BR	NO	4	P	BR	TW	BL	T	S	-	-	-
Dyna-Gro 3400	BR	NO	4	P	TN	TN	BR	T	S	-	-	-
Dyna-Gro 3495	V	NO	4	W	G	G	BF	R	S	-	-	-
Dyna-Gro 3576	V	NO	5	W	G	G	BF	S	S	-	-	-
Fontanelle 5304	V	NO	3	W	TN	TN	BL	T	-	-	-	-
Fontanelle 5621	V	NO	3	W	TN	TN	BL	T	S	-	-	-
Fontanelle 5999	V	NO	3	W	TN	TN	BR	T	S	-	-	-
Fontanelle 6100	V	NO	3	P	TN	TN	BR	T	S	-	-	-
Fontanelle 6104	V	NO	3	P	TN	BR	BL	T	S	-	-	-
Golden Harvest H-1328	BR	NO	3	P	TN	TW	BL	R	S	-	-	-
Golden Harvest H-1353	BR	NO	3	P	TN	TN	BR	T	S	-	-	-
Golden Harvest H-1358	BR	NO	3	W	TN	TW	BR	T	S	MS	R	MR
Golden Harvest H-1388	BR	NO	3	P	BR	TN	BL	R	S	-	-	-
Golden Harvest H-1407	BR	NO	4	P	TN	TW	BR	T	S	-	-	-
Hartz 5164	V	NO	5	W	TN	TW	BL	T	R	MS	R	MR
Hartz Variety H4464	V	NO	4	W	TN	TW	BL	T	R	R	MS	MR
Hartz Variety H4994	V	NO	4	W	BR	TW	BL	T	R	R	MS	MR
Hartz Variety H5042	V	NO	5	W	TN	TW	BL	T	R	R	MS	MR
Hartz Variety H5218	V	NO	5	P	TN	TW	BL	T	R	R	R	MS
Hartz Variety H5350	V	NO	5	W	TN	TW	BL	R	R	R	R	S
Hartz Variety H5545	V	NO	5	P	TN	G	IBL	R	R	-	-	-
Hartz Variety H5566	V	NO	5	W	TN	TW	TN	R	R	MS	R	MS
Hartz Variety H5810	V	NO	5	W	TN	TW	BL	R	R	MS	R	MR
Hartzler Dependable	V	NO	4	-	-	-	-	-	-	-	-	-
Hartzler Racer	V	NO	3	-	-	-	-	-	-	-	-	-
Heartland HD 318	BR	NO	3	P	TN	TW	BL	R	S	-	-	-
Heartland HD 318A	BR	NO	3	P	TN	TW	BL	R	S	-	-	-
Hubner H357N	V	NO	3	W	TN	TN	BL	T	R	MS	R	MR
Hubner H360	V	NO	3	W	TN	TN	BL	T	S	-	-	-
Hubner H381	V	NO	3	P	TN	BR	-	T	S	-	-	-
Hubner H400	V	NO	3	P	TN	TN	BR	T	S	-	-	-
HyPerformer HB4-X434	BR	YES	4	W	TN	TW	BL	T	MR	MS	R	MS
HyPerformer HB4-X463	BR	YES	4	P	TN	TW	BL	T	R	MS	R	R
HyPerformer HB4-X485	V	YES	4	P	TN	TW	BL	-	R	MS	R	MR
HyPerformer HB4-X497	BR	YES	4	W	TN	TW	BL	R	R	MS	R	S
HyPerformer HB4-X521	V	YES	5	P	TN	TW	BL	-	R	MS	R	MR
HyPerformer HB4-X524	V	YES	5	P	TN	TW	IBL	-	R	MR	R	S
HyPerformer HB4-X563	V	YES	5	P	TN	TW	BL	-	R	MR	R	MS
HyPerformer HSC 317	BR	NO	3	P	T	TW	BL	T	S	-	-	-
HyPerformer HSC 373	BR	NO	3	W	TN	TW	BL	T	S	MS	R	MR
HyPerformer HSC 398	BR	NO	3	P	T	TW	BR	T	S	-	-	-
HyPerformer HSC 501 Br	BR	NO	5	P	BR	TW	BL	R	R	MS	R	MR
HyPerformer HSC 557	V	NO	5	P	TN	TW	BL	T	S	MS	R	R
HyPerformer HY 351	BR	NO	3	P	BR	BR	BL	T	S	-	-	-
HyPerformer HY 446	BR	NO	4	W	T	BR	BL	T	S	-	-	-
HyPerformer HY 458	BR	NO	4	W	T	G	BF	R	S	MS	R	MR
HyPerformer HY 498	V	NO	4	W	TN	TN	BF	R	S	-	-	-
HyPerformer HY 574	V	NO	5	P	TN	TW	BL	R	S	-	-	-
ICI D321	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
ICI D371	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
ICI D396	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
ICI D414	BR	NO	4	P	BR	TN	BL	-	-	-	-	-
ICI D427	BR	NO	4	P	TN	TW	BL	R	S	-	-	-
ICI D454	BR	NO	4	W	BR	G	BF	R	R	MS	R	MS
ICI D485	BR	NO	4	W	-	TW	BL	R	R	MS	R	S
ICI EX4402N	BR	YES	4	W	TN	TW	BL	T	R	MR	R	R
ICI EX4473N	BR	YES	4	P	BR	TW	BL	T	R	MS	R	MR
Jader 4730	V	NO	4	P	TN	TN	BL	-	-	-	-	-
Jader 5131	V	NO	5	P	G	G	IBL	-	R	MR	R	S
Jader JEX3431	V	YES	4	W	TN	TW	BL	-	R	MR	R	MR

TABLE 32. Continued.

Brand	Variety Brand Blend	Exp. Vari- ety	Mat- urity Group	Color				Phyto- phthora Root Rot	Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum		Company Rating	UMC Race1	Screening Race3	Reaction Race14
JMS 4240	BR	NO	4	W	BR	TW	BL	S	S	-	-	-
JMS 4788	BR	NO	4	P	BR	TW	BL	S	S	-	-	-
Kruger K3525	V	YES	3	W	TN	G	BF	T	S	-	-	-
Kruger K3636 +	V	NO	3	M	BR	TW	BR	T	S	-	-	-
Kruger K3700 SCN	V	NO	3	W	BR	TW	BL	T	R	-	-	-
Kruger K3727	V	NO	3	W	BR	TW	BL	T	S	-	-	-
Kruger K3737 +	V	NO	3	W	TN	G	BF	T	S	-	-	-
Kruger K3769 +	V	NO	3	P	BR	TW	BR	T	S	-	-	-
Kruger K3808	V	NO	3	P	BR	TW	BL	T	S	-	-	-
Kruger K3838	V	NO	3	P	BR	TW	BL	T	S	-	-	-
Kruger K3900	V	YES	3	W	TN	TW	BL	T	S	-	-	-
Kruger K3909	V	NO	3	P	BR	TW	BR	T	S	-	-	-
Kruger K3939	V	NO	3	P	BR	TW	IBL	T	S	-	-	-
Kruger K3999	V	NO	3	P	BR	TW	BL	T	S	-	-	-
Kruger K4101 +	V	NO	4	P	BR	TW	BL	T	S	-	-	-
Lewis 362	BR	NO	3	W	TN	TW	BL	T	S	-	-	-
Lewis 367	BR	NO	3	W	TN	TW	BL	T	S	-	-	-
Lewis 370	BR	NO	3	P	TN	TW	BL	T	S	-	-	-
Lewis 388	BR	NO	3	W	TN	TW	BL	R	R	MS	R	MS
Lewis 391	BR	NO	3	W	TN	TW	BL	R	R	MS	R	MS
Lewis 405	BR	NO	4	P	TN	TW	BL	R	R	MR	R	MS
Lewis 409	BR	NO	4	P	TN	TW	BR	T	S	-	-	-
Lewis 472	BR	NO	4	P	BR	TW	BL	S	S	-	-	-
Lynks 5373	V	NO	3	P	BR	TW	BR	T	S	-	-	-
Lynks 5380	V	NO	4	W	TN	TW	BL	T	R	MS	R	R
Lynks 5451	V	NO	4	W	BR	GR	BF	T	R	MS	R	MS
Lynks 5482	V	NO	4	P	TN	TN	BL	T	S	-	-	-
McAllister BT342	BR	NO	4	W	BR	G	BF	T	R	MS	R	MS
McAllister Ex350	BR	YES	3	W	TN	TW	BL	S	R	MR	R	MR
McAllister Ex399	BR	YES	3	P	BR	TW	BR	S	S	-	-	-
McAllister Ex404	BR	YES	4	W	BR	TW	BL	S	S	-	-	-
McAllister Recyster	BR	NO	3	W	TN	TW	BL	S	R	MS	R	MR
McAllister Ruler	BR	NO	3	P	BR	TW	BR	S	S	-	-	-
Merschman Atlanta III	BR	NO	4	W	BR	TW	BL	T	S	-	-	-
Merschman Austin II	BR	NO	4	P	TN	GR	BF	T	S	-	-	-
Merschman Cleveland III	BR	NO	4	W	TN	TW	BL	T	S	-	-	-
Merschman Dallas	BR	NO	4	P	TN	GR	BF	T	S	-	-	-
Merschman Dallas II	BR	NO	4	P	BR	GR	IBL	T	S	-	-	-
Merschman Eisenhower III	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
Merschman Fillmore IV	BR	NO	3	W	BR	TW	BR	T	S	-	-	-
Merschman Houston III	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MS
Merschman Kennedy IV	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
Merschman McKinley II	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MS
Merschman Norfolk	BR	NO	4	P	TN	TW	BR	T	S	-	-	-
Merschman Norfolk II	BR	NO	4	P	TN	TW	BL	T	S	-	-	-
Merschman Richmond II	BR	NO	4	W	TN	TW	BR	T	R	MS	R	MS
Merschman Richmond III	BR	NO	4	P	BR	GR	IBL	T	R	MS	R	MS
Merschman Roosevelt	BR	NO	3	P	BR	GR	BF	T	S	-	-	-
Merschman Truman IV	BR	NO	3	M	BR	TW	BR	T	S	-	-	-
MFA Morsoy 8838	BR	NO	3	W	TN	TW	BL	R	S	-	-	-
MFA Morsoy 8842	BR	NO	4	W	TN	TW	BL	R	S	-	-	-
MFA Morsoy 8944	BR	NO	4	W	TN	TW	BL	T	S	-	-	-
MFA Morsoy 9137	BR	NO	3	P	BR	TW	BR	T	S	-	-	-
MFA Morsoy 9152 SCN	BR	NO	5	P	BR	G	BF	S	R	MS	R	MR
MFA Morsoy 9233	BR	NO	3	P	TN	BR	BL	R	R	-	-	-
MFA Morsoy 9241	BR	NO	4	P	TN	BR	BL	R	S	-	-	-
MFA Morsoy 9245 SCN	BR	NO	4	W	BR	G	BF	T	R	MS	R	MS
MFA Morsoy 9329	BR	NO	2	P	BR	G	BL	T	S	-	-	-
MFA Morsoy 9335 SCN	BR	NO	3	W	TN	TW	BL	T	R	MR	R	MR
MFA Morsoy 9338 SCN	BR	NO	3	W	TN	TW	BL	T	R	MS	R	MR
MFA Morsoy 9345 SCN	V	NO	4	P	TN	TW	BL	T	R	MR	R	R
MFA Morsoy 9348	BR	NO	4	P	BR	TW	BL	T	S	-	-	-
Midland 8393	BR	NO	3	W	TW	TW	BL	T	S	-	-	-
Midland 8413	BR	NO	4	P	BR	BR	BL	R	S	-	-	-
Midland 8475	BR	NO	4	W	TN	TW	BL	T	R	MS	R	MR
Morning Sun MSS 3300	BR	NO	3	P	TN	G	IBL	T	S	-	-	-
Morning Sun MSS 3690	BR	NO	3	P	TN	TW	BL	T	T	S	MS	S
Morning Sun MSS 3893	BR	NO	3	P	BR	TW	BL	T	S	-	-	-
MPV-1	BR	YES	3	-	-	-	-	-	S	S	S	S
MPV-2	BR	YES	4	-	-	-	-	-	R	MS	MR	MS

TABLE 32. Continued.

Brand	Variety Brand Blend	Exp. Var- iety	Mat- urity Group	Color				Phyto- phthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race1	Screening Race3	Reaction Race14
MPV-3	BR	YES	3	-	-	-	-	-	S	S	MS	MS	
MPV-5	BR	YES	4	-	-	-	-	-	R	MS	R	R	
MPV-7	BR	YES	4	-	-	-	-	-	R	MS	R	MR	
MPV-8	BR	YES	4	-	-	-	-	-	R	MR	R	MR	
M/W Genetics G 3550	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
M/W Genetics G 3860	BR	NO	3	W	TN	TW	BL	S	R	MS	-	MR	
M/W Genetics G 3880	BR	NO	3	P	TN	TW	BR	S	S	-	-	MR	
M/W Genetics G 4280N	BR	NO	4	W	BR	GR	BF	S	R	MS	R	MR	
Mycogen 429	V	NO	4	W	BR	G	BF	R	R	MS	R	MR	
Mycogen 470	V	NO	4	P	BR	TW	BL	T	S	-	-	-	
Mycogen AG439	V	NO	3	W	BR	TW	BL	T	S	-	-	-	
Mycogen AG545	V	NO	4	W	TN	G	BF	T	S	-	-	-	
Mycogen J-380C	V	NO	3	W	TN	TW	BL	T	S	MS	R	MR	
Mycogen J-445	V	NO	4	P	TN	TW	BL	T	S	-	-	-	
NC+ 3A75	V	NO	3	P	TN	TW	BL	S	S	-	-	-	
NC+ 4A10	V	NO	4	P	TN	TW	BR	S	S	-	-	-	
NC+ 4A27	V	NO	4	P	G	G	BF	S	R	MS	R	MS	
NC+ 5A15	V	NO	5	W	TN	G	BF	S	R	S	-	MR	
NC+ 5H61	V	NO	5	W	TN	GR	BF	S	S	-	-	-	
NeCo 1051N	BR	NO	3	W	BR	TN	BL	T	R	MS	R	MR	
NeCo 1300	BR	NO	4	W	TN	BR	BL	R	S	-	-	-	
NeCo 7354	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
NeCo 7384	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
NeCo 7392	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
NeCo 7400	BR	NO	4	P	TN	BR	BL	R	S	-	-	-	
NeCo 7484	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Northrup King S29-11	V	NO	2	W	TN	TW	BL	S	R	MR	R	MR	
Northrup King S35-35	V	NO	3	P	TN	TW	BL	R	S	-	-	-	
Northrup King S39-11	V	NO	3	W	TN	TW	BL	S	R	MR	R	MR	
Northrup King S42-32	V	NO	4	W	BR	G	Y	S	R	MS	-	MR	
Northrup King S42-60	V	NO	4	P	TN	TW	BL	S	R	-	-	-	
Northrup King S46-44	V	NO	4	P	BR	TW	BL	R	R	MS	R	R	
Northrup King S52-25	V	NO	5	W	BR	TW	BL	R	R	MS	R	MR	
Northrup King S57-11	V	NO	5	P	BR	TW	BL	R	R	MS	R	MR	
Northrup King X9459	V	YES	5	P	TN	TW	BL	T	R	MS	R	MR	
Ohlde 3570	V	NO	3	-	-	-	-	T	S	-	-	-	
Ohlde 3580	V	NO	3	-	-	-	-	T	S	-	-	-	
Ohlde 3650	V	NO	3	-	-	-	-	T	S	-	-	-	
Ohlde 3662N	V	NO	3	-	-	-	-	T	S	MS	R	MS	
Ohlde 3900	V	NO	3	-	-	-	-	T	S	-	-	-	
Ohlde 4040	V	NO	4	-	-	-	-	T	S	-	-	-	
Ohlde 4262N	V	NO	4	-	-	-	-	T	S	MS	R	MS	
Patriot 345	BR	NO	3	W	TN	TW	BL	R	S	-	-	-	
Patriot 350	BR	NO	3	P	BR	BR	BL	R	S	-	-	-	
Patriot 355	BR	NO	3	W	BR	TW	BL	T	S	-	-	-	
Patriot 373	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
Patriot 379N	BR	NO	3	W	TN	TW	BL	T	S	MR	R	MR	
Patriot 395	BR	NO	3	P	TN	BR	BL	R	S	-	-	-	
Patriot 410	BR	NO	4	W	BR	TW	BL	T	S	-	-	-	
Patriot 420N	BR	NO	4	P	TW	TW	BL	T	S	MR	R	MR	
Patriot 422	BR	NO	4	P	TN	BR	BL	R	S	-	-	-	
Patriot 452N	BR	NO	4	W	BR	G	BL	T	S	MS	R	MS	
Patriot 482N	BR	NO	4	W	BR	TW	BL	T	S	MS	R	MS	
Patriot 488	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Pioneer Variety 9342	V	NO	3	W	BR	TW	BR	R	S	-	-	-	
Pioneer Variety 9362	V	NO	3	W	BR	G	BF	R	R	MS	R	MR	
Pioneer Variety 9381	V	NO	3	W	TN	TW	BL	T	S	-	-	-	
Pioneer Variety 9392	V	NO	3	P	TN	TW	BL	T	S	-	-	-	
Pioneer Variety 9393	V	NO	3	P	TN	TW	BL	R	S	-	-	-	
Pioneer Variety 9394	V	NO	3	W	TN	TW	BL	R	S	MR	R	MR	
Pioneer Variety 9442	V	NO	4	P	TN	TW	BL	T	S	-	-	-	
Pioneer Variety 9444	V	NO	4	W	TN	TW	BL	R	S	MS	R	MS	
Pioneer Variety 9451	V	NO	4	W	BR	TW	BL	T	S	MS	R	MR	
Pioneer Variety 9452	V	NO	4	W	TN	TW	BL	S	S	-	-	-	
Pioneer Variety 9472	V	NO	4	W	TN	TW	BL	S	R	MS	R	MR	
Pioneer Variety 9491	V	NO	4	W	BR	TW	BR	S	R	MS	R	MS	
Pioneer Variety 9521	V	NO	5	P	TN	TW	BL	R	R	R	R	S	
Pioneer Variety 9551	V	NO	5	W	TN	TW	BL	R	R	MS	R	MS	
Pioneer Variety 9584	V	NO	5	W	TN	TW	BL	T	R	MR	R	S	
Pioneer Variety 9592	V	NO	5	W	TN	TW	BL	T	S	-	-	-	

TABLE 32. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat-urity Group	Color				Phyto-phthora	Cyst Nematode Reaction				
				Flower	Pod	Pubes.	Hilum		Root	Rot	Company Rating	UMC Race1	Screening Race3
Prairie Brand PB-384	BR	NO	3	W	BR	TW	BF	S	-	-	-	-	
Prairie Brand PB-414	BR	NO	4	P	BR	TW	BL	S	S	-	-	-	
Reeds Brand 222	BR	NO	2	W	BR	TW	BR	T	S	-	-	-	
Reeds Brand 333	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
Reeds Brand 350 SCN	BR	NO	3	P	BR	G	IBL	R	R	MR	MR	R	
Reeds Brand 360 SCN	BR	NO	3	W	TN	BR	BR	R	R	MR	R	MR	
Reeds Brand 390	BR	NO	3	P	TN	TW	BR	T	S	-	-	-	
Reeds Brand 445	BR	NO	4	P	BR	TW	BR	T	S	-	-	-	
Riverside 91-46	V	NO	4	W	TN	G	BF	-	S	-	-	-	
Riverside 499	V	NO	5	P	TN	G	IBL	R	S	-	-	-	
Riverside Robin 5	V	NO	5	-	-	-	-	-	-	-	-	-	
Shissler GR8 327	V	NO	3	M	TN	G	BL	T	S	-	-	-	
Shissler GR8 337C	V	NO	3	W	TN	TW	BL	S	R	MS	R	MR	
Shissler GR8 383	V	NO	3	-	-	-	-	-	-	-	-	-	
Shissler GR8 392C	V	NO	3	W	TW	TW	BL	T	R	MS	R	S	
Shissler GR8 397	V	NO	3	P	TW	TW	BR	T	S	-	-	-	
Southern Cross David	V	NO	4	W	-	G	BF	-	R	MS	R	MR	
Southern Cross Joshua	V	NO	4	P	-	TN	BL	-	S	-	-	-	
Southern Cross Samuel	V	NO	5	P	-	G	TN	-	R	MS	R	MS	
Stine 3490	BR	NO	3	P	BR	TW	BR	S	S	-	-	-	
Stine 3562CN	BR	NO	3	W	BR	TW	BL	S	R	MR	R	MR	
Stine 3630	BR	NO	3	M	BR	TW	BR	S	S	-	-	-	
Stine 3660	BR	NO	3	W	BR	TW	BR	S	S	-	-	-	
Stine 4322CN	BR	NO	4	W	BR	G	BF	S	R	MS	R	MR	
Stine 4340	BR	NO	4	P	TN	G	IBL	S	S	-	-	-	
Stine 4650	BR	NO	4	P	BR	TW	BL	S	S	-	-	-	
Stine 4680	BR	NO	4	P	BR	TW	BL	S	S	-	-	-	
Terra E294	BR	YES	2	P	BR	G	BL	T	R	S	S	MS	
Terra E474	BR	YES	4	W	BR	TW	BL	T	T	-	-	-	
Terra TS312	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
Terra TS402	BR	NO	4	P	TW	TW	BR	T	S	-	-	-	
Terra TS390SCN	BR	NO	3	W	TW	TW	BL	T	R	MS	R	MS	
Terra TS4292	BR	NO	4	P	TW	BR	BL	T	R	MS	R	S	
Terra TS4792	BR	NO	4	P	TW	BR	BL	T	R	MS	R	MR	
Terra TS Torch	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
Terra-Vig 5452	V	NO	5	W	TN	G	BF	R	R	MR	R	S	
Terra-Vig 5676	V	NO	5	W	BR	TW	BL	MS	R	MS	R	MR	
Terra-Vig 5693	V	NO	5	P	TN	G	IBL	MR	S	-	-	-	
Vigoro V 363	V	NO	3	-	-	-	-	-	-	-	-	-	
Vigoro V 363SCN	V	NO	3	-	-	-	-	-	R	MS	R	MR	
Vigoro V 443	V	NO	4	-	-	-	-	-	-	-	-	-	
Vigoro V 443SCN	V	NO	4	-	-	-	-	-	R	S	R	MS	
Willcross 92-A	BR	NO	3	P	TN	TW	BL	R	S	-	-	-	
Willcross 92-B	BR	NO	4	P	TN	TW	BL	R	S	-	-	-	
Willcross 94	BR	NO	3	W	BR	TN	BL	T	R	MS	R	S	
Willcross 9345	BR	NO	4	W	BR	TW	BL	R	S	-	-	-	
Willcross 9435-A	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
Willcross 9435-B	BR	NO	3	W	TN	TW	BL	T	S	-	-	-	
Willcross 9447-A	BR	NO	4	P	BR	TW	BL	T	S	-	-	-	
Willcross 9447-B	BR	NO	3	P	BR	TW	BL	T	S	-	-	-	
Wilson 3250	BR	NO	3	P	BR	TW	BR	T	S	-	-	-	
Wilson 4010	BR	NO	4	P	BR	TW	BR	T	S	-	-	-	
PUBLIC VARIETIES													
C1832	V	YES	3	-	-	-	-	-	-	-	-	-	
Jack	V	NO	2	W	BR	G	BF	R	R	MR	R	MR	
Charleston	V	NO	3	-	-	-	-	-	-	-	-	-	
Corsica	V	NO	3	P	TN	TW	BL	S	S	-	-	-	
Edison	V	NO	3	P	TN	TW	BL	R	R	-	-	-	
Fayette	V	NO	3	W	TN	BR	BL	R	R	MS	R	MR	
Flyer	V	NO	3	P	TN	BR	BL	R	R	-	-	-	
Hamilton	V	NO	3	W	BR	G	BF	R	R	-	-	-	
Linford	V	NO	3	W	TN	TW	BL	R	R	MS	R	MR	
Ohio FG2	V	NO	3	-	-	-	-	-	-	-	-	-	
Piatt	V	NO	3	W	T	G	BF	R	S	-	-	-	
Resnik	V	NO	3	P	TN	TW	BL	R	S	-	-	-	
Saline	V	NO	3	W	T	G	BF	T	R	MR	R	MR	

TABLE 32. Continued.

Brand	Variety Brand Blend	Exp. Variety	Maturity Group	Color				Phytophthora		Cyst Nematode Reaction			
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Screening Race1	Race3	Race14
Williams 82	V	NO	3	W	TN	TW	BL	R	S	S	S	S	S
Yale	V	NO	3	-	-	-	-	-	-	MR	R	MS	MS
Calhoun	V	NO	4	-	-	-	-	-	-	-	-	-	-
Chesapeake	V	NO	4	-	-	-	-	-	-	-	-	-	-
Crawford	V	NO	4	P	BR	BR	BL	R	S	-	-	-	-
Delsoy 4210	V	NO	4	W	TN	TW	G	S	R	MS	R	S	S
Delsoy 4500	V	NO	4	W	TN	G	BF	S	R	R	R	S	S
Delsoy 4710	V	NO	4	P	TN	TW	BL	S	R	MS	R	MS	MR
K1207	V	YES	4	-	-	-	-	-	-	-	-	-	-
KS4694	V	NO	4	-	-	-	-	-	-	-	-	-	-
Ky88-5037	V	YES	4	-	-	-	-	-	-	-	-	-	-
LS87-1615	V	YES	4	-	-	-	-	-	-	-	-	-	-
Manokin	V	NO	4	W	TN	TW	BL	-	R	R	R	R	R
NMSB X4307	V	YES	4	-	-	-	-	-	-	S	S	S	S
Stressland	V	NO	4	-	-	-	-	-	-	-	-	-	-
Avery	V	NO	5	W	TN	BR	BL	R	R	MR	R	MR	MR
Clifford	V	NO	5	-	-	-	-	-	-	-	-	-	-
Delsoy 4900	V	NO	5	P	TN	BR	BR	S	R	MS	R	S	S
Essex	V	NO	5	P	TN	G	BF	T	S	S	S	S	S
Hartwig	V	NO	5	W	TN	TW	BL	T	R	R	R	MR	MR
Holladay	V	NO	5	-	-	-	-	-	-	-	-	-	-
Hutcheson	V	NO	5	W	TN	G	BF	T	S	-	-	-	-
Ky88-4080	V	YES	5	-	-	-	-	-	-	-	-	-	-

* Data was provided by companies on entry forms.
 - Data not available or not provided by the company.

VARIETY CODES

V - Variety
 BR - Brand
 BL - Blend

COLOR CODES

BF - Buff
 BL - Black
 BR - Brown
 G - Gray
 GR - Green
 IBL - Imperfect Black
 M - Mixed
 P - Purple
 TN - Tan
 TW - Tawny
 Y - Yellow

DISEASE CODES

R - Resistant
 T - Tolerant
 S - Susceptible

CYST NEMATODE RESISTANCE CODES

R - Resistant
 MR - Moderately Resistant
 MS - Moderately Susceptible
 S - Susceptible

TABLE 33. NAMES OF SOYBEAN ENTRIES EVALUATED IN 1994 AND THEIR SEED SOURCES.

BRAND	VARIETY/BLEND	SEED SOURCE
AgraTech	FFR 474, FFR 493, FFR 514, FFR 542, FFR 563, AT555	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055 (317-335-3333)
AgriPro	AP 3727, AP 3799, AP 3990, AP 4100, AP 4201	AgriPro Seeds, Rt. 2, Hwy. 30 E, Ames, IA 50010 (515-232-0707)
Asgrow	A3237, A3313, A3431, A3510, A4138, A4415, A4539, A4715, A5112, A5403, A5560, A5843, A5885	Asgrow Seed Co., 7000 Portage Rd., Kalamazoo, MI 49001 (616-384-2351)
Bergmann-Taylor	399C, 413C, 435C 445C, 385-STS, 484	Bergmann-Taylor, Inc., Box 317, St. Jacob, IL 62281 (618-644-5522)
Buckshot	44, 55	Delhi Seed Co. Inc., PO Box 176, Hwy 17N., Delhi, LA 71232 (318-878-9031)
Capehart	Stone	Capehart Seed Service, Box 10, Hwy. 61 S., Holland, MO 63853 (314-695-4447)
Ciba	3323, 3362, 3388, 3474	Ciba Seeds, 3615 S. Hilton Ln, Peoria, IL 61607 (309-697-2414)
Dairyland	DSR-305, DSR-317, DSR-373, DSR-420, DST-3125, DST-3206	Dairyland Seed Co., Inc., Box 958, 3570 Hwy. H, West Bend, WI 53095 (800-236-0163)
Dekalb	CX340c, CX377, CX394c, CX399, CX404, CX411, CX434, CX445, CX469c, CX478	Dekalb Genetics Corp., 3100 Sycamore Road, DeKalb, IL 60115 (815-758-9323)
Delta King	5475, 5850	Lawhon Farm Ser., Inc., PO Box 970, 522 Poplar, McCord, AR 72101 (501-731-5484)
Deltapine	105, 415, DP 3456, DP 3478	Delta and Pine Land Co., Box 157, Scott, MS 38772 (601-742-3351)
Desoy	303E, 3333+, 3434+, 3535, 3606, 3737, 3777, 3909+, 3949, 4101, 4141, 4242A	Dennis Ewing Farm Seed, 3903 Squaw Rd, Ames, IA 50014 (515-232-8236)
Dyna-Gro	3290, 3303, 3340, 3368, 3400, 3410	Pueblo Chem. & Supply Co., 1103 Erie, N Kansas City, MO 64116 (816-221-2742)
Dyna-Gro	3495, 3576	Tri-State Delta Chem. Inc., Box 89, Rayville, LA 71269 (318-728-9041)
Fontanelle	5304, 5621, 5999, 6100 6104	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044 (402-721-1410)
Golden Harvest	H-1328, H-1353, H-1358, H-1388, H-1407	The J. C. Robinson Seed Co., 100 J.C. Robinson Blvd., Box A, Waterloo, NE 68069 (402-779-2531)
Hartz Variety	5164, H4464, H4994, H5042, H5218, H5350, H5545, H5566, H5810	Jacob Hartz Seed Co., Inc., Box 946, Stuttgart, AR 72160 (501-673-8565)
Hartzler	Dependable, Racer	Hartzler's Seed Co., Rt. 1, Box 458, Harrisonville, MO 64701 (816-869-3200)
Heartland	HD-318, HD-318A	Heartland Agriculture, 838 NE 1000 Rd., Calhoun, MO 65323 (800-748-7929)
Hubner	H357N, H360, H381, H400	Hubner Seed Co. Inc., Rt. 1, Box 92, West Lebanon, IN 47991 (317-893-4428)
HyPerformer	HB4-X434, HB4-X463, HB4-X485, HB4-X497, HB4-X521, HB4-X524, HB4-X563, HSC 317, HSC 373, HSC 398, HSC 501 Br, HSC 557, HY 351, HY 446, HY 458, HY 498, HY 574	HyPerformer Seed Co., One Hy Crop Row, Memphis, TN 38120 (901-756-1771)
ICI	D321, D371, D396, D414, D427, D454, D485, EX4402N, EX4473N	ICI Seed, Rt. 2, Box 92A, Carroll, IA 51401 (712-792-5760)

TABLE 33. Continued.

BRAND	VARIETY/BLEND	FIRM AND ADDRESS
Jader	EX3431, 4730, 5131	Ridgway Seed Co., Box 212, Ridgeway, IL 62979 (618-272-3741)
JMS	4788, 4240	J.M. Schultz Seed Co., 105 N. Pine St., Box 211, Dieterich, IL 62424 (217-925-5212)
Kruger	K3525, K3636+, K3727, K3737+, K3769+, K3808, K3838, K3900, K3909, K3939, K3999, K4101+, K3700SCN	Kruger Seed Co., Box A, Hwy 20 E, Dike, IA 50624 (319-989-2414)
Lewis	362, 367, 370, 388, 391, 405, 409, 472	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376 (217-964-2131)
Lynks	5373, 5380, 5451, 5482	Lynks Seeds, Box 637, Marshalltown, IA 50158 (800-798-2676)
McAllister	Recyster, Ruler, Ex350, EX399, Ex404, BT 342	McAllister Seed Co., Inc., 1307 N. Broadway, Box 28, Mt. Pleasant, IA 52641 (319-385-2259)
Merschman	Atlanta III, Austin II, Cleveland III, Dallas, Dallas II, Fillmore IV, Eisenhower III, Norfolk, Houston III, Norfolk II, Kennedy IV, McKinley II, Richmond II, Richmond III, Roosevelt, Truman IV	Merschman Seed Co., 103 Ave. D., West Point, IA 52656 (319-837-6111)
MFA Morsoy	8838, 8842, 8944, 9137, 9233, 9241, 9329, 9348, 9152SCN, 9245SCN, 9335SCN, 9338SCN, 9345SCN	MFA Inc., 615 Locust, Columbia, MO 65201 (314-876-5285)
Midland	8393, 8413, 8475	Midland Seeds Inc., 1906 Kingman Rd., Ottawa, KS 66067 (913-242-3598)
Morning Sun	MSS 3300, MSS 3690, MSS 3893	Morning Sun Seed, Rt. 1, Box 69, Westboro, MO 64498 (816-984-5604)
MPV	MPV-1, MPV-2, MPV-3, MPV-5, MPV-7, MPV-8	Missouri Public Varieties, PO Box 255, Columbia, MO 65205 (314-442-9370)
M/W Genetics	G 3550, G 3860, G 3880, G 4280 N	Midwest Seed Genetics, Inc., Box 518, 213 E. 6th, Carroll, IA 51401 (800-369-8218)
Mycogen	470, 429, AG439, AG545, J-380c, J-445	Mycogen Plant Science, 720 St. Croix St., Prescott, WI 54021 (800-321-2867)
NC+	3A75, 4A10, 4A27, 5A15, 5H61	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504 (402-467-2517)
NeCo	1051N, 1300, 7354, 7384, 7392, 7400, 7484	NeCo Seed Farms, Inc., Box 379, Garden City, MO 64747 (816-862-8203)
Northrup King	S29-11, S35-35, S39-11, S42-32, S42-60, S46-44, S52-25	Northrup King Co., 719 Magnolin, Mt. Vernon, IL 62864 (618-244-3454)
Northrup King	S52-25, S57-11, X9459	Northrup King Co., Hwy. 158E, Box 729, Bay, AR 72411 (501-483-7691)
Ohlde	3570, 3580, 3650, 3662N, 3900, 4040, 4262N	Ohlde Seed Farms, Box 63, Palmer, KS 66962 (913-692-4555)
Patriot	345, 350, 355, 373, 395, 379N, 410, 420N, 422, 488, 452N, 482N	Patriot Seed, Inc., 1411 N. Kickapoo, Lincoln, IL 62656 (217-732-8102)
Pioneer Variety	9442, 9444, 9451, 9452, 9472, 9521, 9551, 9584, 9592	Pioneer Hi-Bred Int., Inc., 6767 Old Madison Pike Rd.110 Huntsville, AL 35806 (205-430-0760)
Pioneer Variety	9342, 9362, 9381, 9392, 9393, 9394, 9444, 9451, 9452, 9472, 9491	Pioneer Hi-Bred Int., Inc., MidRiver Off., PO Box 1536 O'Fallon, IL 62269 (618-624-8222)
Prairie Brand	PB-384, PB-414	Sanggaard Seed Farms, 15 X Ave., Story City, IA 50248 (515-733-2101)

TABLE 33. Continued.

BRAND	VARIETY/BLEND	FIRM AND ADDRESS
Reeds Brand	222, 333, 390, 445 350 SCN, 360 SCN	Reeds Seeds, Inc., 1035 Industrial Rd., Box 230, Chillicothe, MO 64601 (816-646-4426)
Riverside	499, 91-46, Robin-5	Terra Int. Inc., Box 171376, 6555 Quince Rd., Memphis, TN 38119 (901-758-1341)
Shissler	GR8 327, GR8 337C, GR8 383, GR8 392C, GR8 397	Shissler Seed Co., 22827 Shissler Rd., Elmwood, IL 61529 (309-742-2211)
Southern Cross	David, Jouhua, Samuel	Miles Seed, 2760 Keller Rd., Owensboro, KY 42301 (502-926-2420)
Stine	3490, 3630, 3660, 4340, 4650, 4680, 3562CN, 4322CN	Stine Seed Co., 2225 Laredo Trail, Adel, IA, 50003 (515-677-2605)
Terra	E294, E474, TS312, TS402, TS4292, TS4792, TS390SCN, TS Torch	Terra Int., Inc., 600 4th St., Sioux City, IA 51102 (712-233-3609)
Terra-Vig	5452, 5676, 5693	Terral-Norris Seed Co., Inc., 604 Blount St., Box 826, Lake Providence, LA 71254 (318-559-2840)
Vigoro	V363, V443, V363SCN, V443SCN	Vigoro Seeds, PO Box 177, Sigourney, IA 52591 (515-622-3033)
Willcross	92-A, 92-B, 94, 9345, 9435-A, 9435-B, 9447-A, 9447-B	Midland Soybean Dev. Assoc., Box 379, Garden City, MO 64747 (816-862-8203)
Wilson	3250, 4010	Wilson Hybrids, Inc., Box 391, Harlan, IA 51537 (712-755-3841)
Public Varieties	Avery, Charleston, Chesapeake, Corsica, Crawford, Delsoy 4210, Delsoy 4500, Delsoy 4710, Delsoy 4900, Edison, Essex, Fayette, Flyer, Hamilton, Hartwig, Holladay, Hutcheson, Jack, Linford, Manokin, Piatt, Resnik, Saline, Williams 82 Calhoun, Clifford, Ohio FG2, Stressland, Yale, C1832, K1207, KY88-4080, KY88-5037, KS4694, LS87-1615, NMSB X4307	MSIA, 3211 LeMone Industrial Blvd., Columbia, MO 65201 (314-449-0586) University of Missouri, Foundation Seed (314-442-1614)



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