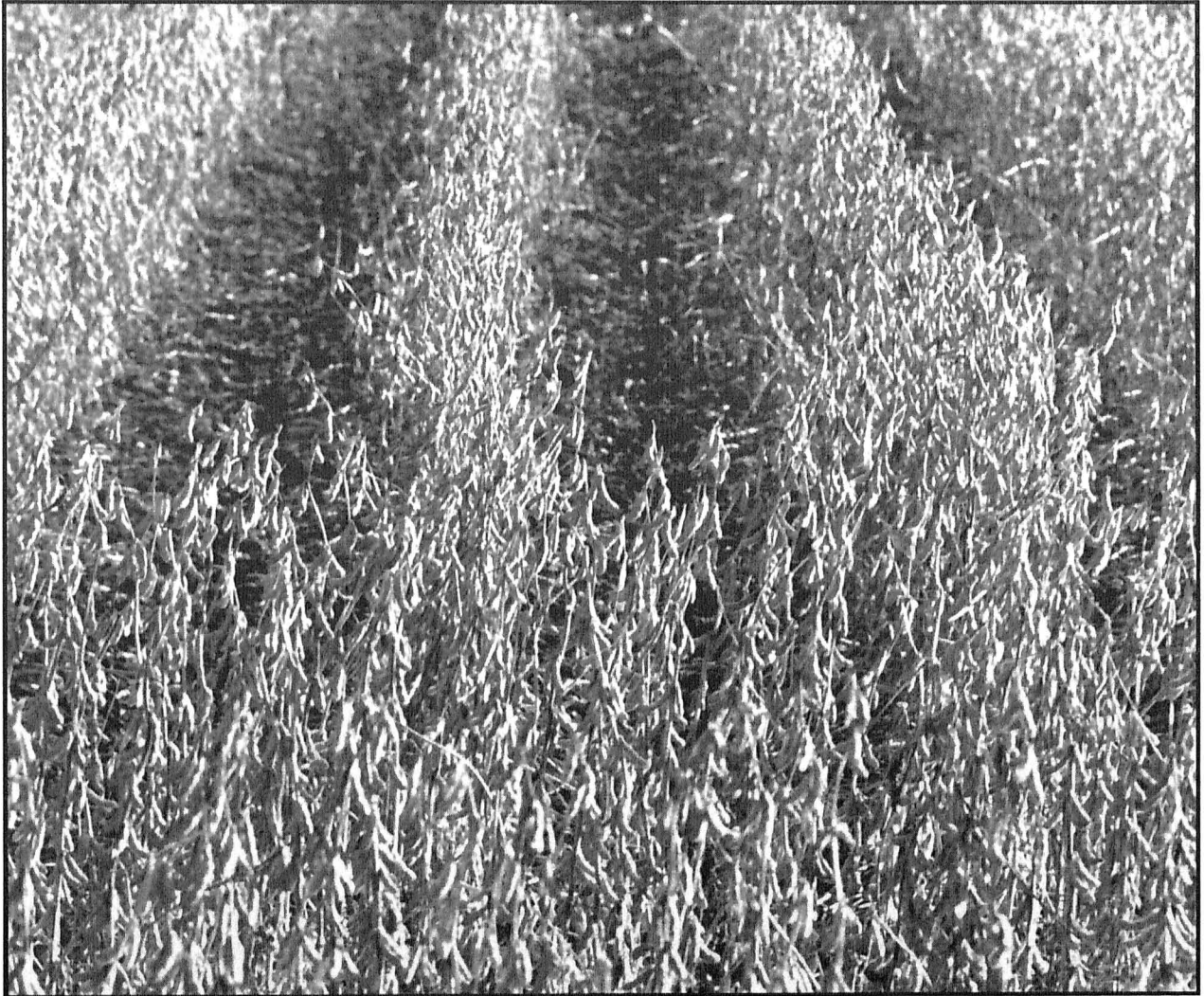


# Soybean

## 1992 Missouri Crop Performance

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# MISSOURI CROP PERFORMANCE

1992

## SOYBEAN

This report on Research Project 363 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 has grown from 51 in 1973 to 324 today.

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.

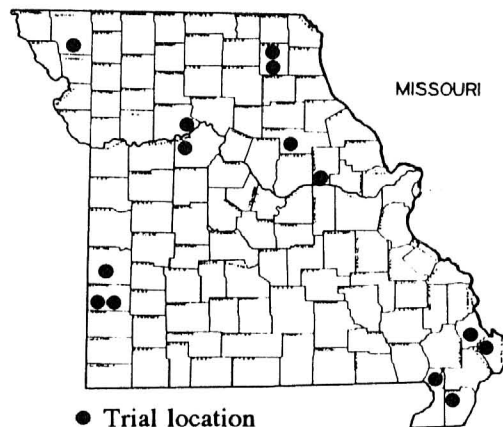
The Missouri Agricultural Experiment Station does not recommend specific varieties. Farmers growing a new variety for the first time should consider all the information contained in this report and then grow a small acreage to determine adaptability. This should be the practice for all new varieties 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 1992. 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.

**Locations.** On the basis of geographical characteristics, the state was divided into regions. Soybean variety evaluation trials were located in the northern, central, southwestern and south-eastern regions of the state. Trial locations are shown on adjacent map.

**Field Plot Design.** A lattice design with three replications or a randomized complete block design with four to 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.



**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 are; 3.0 Pella 86, 4.0 Fayette, 5.0 Hill, 6.0 Bedford, and 7.0 Centennial. 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.

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 two Missouri locations: Benton City, and Clarkton. The Benton City isolate tested as Race 3 and the Clarkton isolate tested as Race 4. All entries submitted to the program as SCN resistant were tested for reaction in these two 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

#### SUMMARY OF RESULTS

Soybean varieties and blends were evaluated in nine standard studies in 1992. Data from these tests are presented in Tables 2 through 14. Management practices applied at each location are given on the individual tables.

Results are presented by regions of the state. 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 1. The ranges give the values for the lowest and highest yielding varieties 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	145	37-63	54	2
Novelty	145	46-67	59	3
Miami	120	39-63	54	5
McKittrick	120	47-71	57	6
Nevada	53	46-60	52	8
Lamar	53	28-55	43	9
Oran	82	30-67	53	11
Portageville Loam	82	24-62	42	12
Portageville Clay	82	33-75	56	13

TABLE 2. Performance of Soybean Varieties evaluated near Barnard (Nodaway County) on the Bill and Gary Meyer Farm during 1990-92.

Planted: 4 May 1992  
 Harvested: 2 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Nodaway Silt Loam  
 Soil Test: pH=6.5, OM=2.6%, P=98, K=508

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Dual + Scepter  
 Post: Basagran + Poast  
 Irrigation: 0.00 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 310 eggs / 250cc of soil  
 Growing Season Rainfall: May=2.6, June=3.7, July=11.7, Aug.=0.5, Sept.=6.4, TOTAL=24.9"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (in)	1992	1991	1990	1992	1991	1990
	<b>MATURITY GROUP 2</b>							
<b>COMMERCIAL VARIETIES</b>								
Terra - Flame	9-16	38.7	1.2	--	--	54.8**	--	--
Golden Harvest H-1271	9-13	36.7	1.5	1.7	--	53.3*	49.5	--
Reeds Brand 222	9-11	39.0	1.2	1.8	1.0	47.5	50.3	50.5*
United AgriProducts 3290	9-12	38.3	1.8	2.3	--	47.5	52.2**	--
3.0 Maturity Group Check##	9-15							
AVERAGE	9-13	38.2	1.4	2.0	1.0	50.8	50.7	49.8
LSD (.05)	3	3.9	0.5	0.6	NS	3.5	NS	4.5
CV (%)	0.9	8.4				5.7	9.8	4.9
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-15							
Desoy 303	9-15	36.2	2.0	1.7	--	63.4**	56.7	--
M/W Genetics G 3550	9-16	38.1	2.0	--	--	62.5*	--	--
Kruger K3808	9-19	39.8	3.7	--	--	62.3*	--	--
ICI D371	9-16	39.2	1.3	--	--	61.6*	--	--
Merschman Kennedy IV	9-17	39.1	1.7	--	--	61.4*	--	--
MFA Morsoy 9137	9-16	39.1	1.3	--	--	61.1*	--	--
Kruger K3769+	9-16	40.1	1.3	2.0	--	60.8*	56.3	--
Merschman Harrison II	9-15	37.3	3.3	--	--	60.7*	--	--
Ciba Geigy G Brand 3362	9-19	37.6	1.3	--	--	60.6*	--	--
Terra - TS 312	9-15	37.4	1.7	--	--	60.5*	--	--
Jacques J-399	9-21	41.3	1.0	--	--	60.2*	--	--
Golden Harvest H-1353	9-16	37.3	1.3	--	--	59.8*	--	--
Reeds Brand 330	9-16	37.2	2.0	1.6	1.0	59.6*	57.2	47.1*
Morning Sun MSS-3893	9-17	38.6	1.7	--	--	59.3*	--	--
Terra - Torch	9-16	38.4	1.3	3.1	--	58.6*	57.0	--
Desoy 333	9-16	37.4	2.0	2.1	--	58.4*	55.2	--
Kruger K3939	9-17	40.5	1.7	2.3	--	58.1*	57.1	--
Diamond SC357	9-15	39.5	1.0	1.7	1.0	57.9*	48.6	44.2
Diamond Champion	9-17	36.8	1.0	1.0	1.0	57.9*	53.3	49.6*
Pioneer Variety 9341	9-16	41.1	1.3	1.7	1.0	57.9*	54.1	40.2
Wilson 3250	9-15	36.2	1.3	1.9	--	57.9*	56.6	--
Pioneer Variety 9381	9-18	38.5	1.3	2.5	1.0	57.8*	59.8*	42.2
Merschman Hoover III	9-14	34.8	1.0	--	--	57.7*	--	--
Kruger K3333	9-18	35.8	1.0	--	--	57.7*	--	--
Desoy 331A	9-16	38.1	1.0	--	--	57.6*	--	--
AgriPro AP 3990	9-18	38.9	1.3	--	--	57.3	--	--
Ciba Geigy G Brand 3388	9-17	38.9	1.3	1.4	--	57.2	54.6	--
Flyer	9-21	40.4	1.3	2.3	1.0	56.6	46.5	40.8
Vigoro KE 371	9-18	36.6	1.3	1.1	1.0	56.6	53.8	46.5*
Northrup King S35-35	9-16	38.9	1.3	--	--	56.6	--	--
Kruger K3303	9-16	39.1	1.3	--	--	56.5	--	--
Masco Ruler	9-16	38.0	1.3	1.7	--	56.1	51.2	--
Lynks 5327	9-16	39.8	1.0	1.4	--	55.9	58.9*	--
Pioneer Variety 9391	9-17	41.1	2.0	2.4	1.4	55.8	45.9	41.7
Research Seed Buchanan	9-20	37.5	1.0	1.1	1.1	55.8	53.8	48.1*
Hyperformer HSC 317	9-16	37.4	1.7	--	--	55.3	--	--
Merschman Eisenhower II	9-20	42.2	2.7	2.9	1.4	55.2	52.7	45.2

TABLE 2. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (in)	1992	1991	1990	1992	1991	1990
MFA Morsoy 8838	9-22	44.0	2.3	1.6	1.4	55.1	46.6	42.0
Kruger K3838	9-18	40.7	2.3	2.1	--	55.1	56.9	--
NC† 3A81	9-17	40.5	1.3	1.7	--	55.0	55.2	--
Edison	9-16	37.4	1.0	1.8	--	54.9	53.1	--
Merschman Roosevelt	9-20	43.1	2.3	2.6	1.3	54.9	50.0	46.5*
Morning Sun MSS-3690	9-17	47.3	2.3	2.1	--	54.8	48.2	--
Fontanelle 5999	9-16	40.8	1.3	1.8	1.0	54.7	56.6	47.4*
Pioneer Variety 9392	9-17	39.6	1.0	1.4	--	54.6	50.7	--
MFA Morsoy 9233	9-16	36.9	1.0	--	--	54.5	--	--
Merschman Coolidge	9-17	37.8	1.0	--	--	54.3	--	--
Lewis 388	9-17	40.5	1.7	1.3	--	54.3	53.0	--
Masco Recyster	9-17	39.5	1.3	1.0	1.0	54.3	50.9	45.8*
AgriPro AP 3550	9-16	33.9	1.0	--	--	54.2	--	--
Desoy 383	9-20	39.9	2.0	--	--	54.1	--	--
Reeds Brand 390	9-19	40.1	1.3	1.2	--	53.9	55.2	--
AgriPro AP 3800	9-17	39.0	2.0	2.3	1.0	53.9	53.9	44.2
Charleston	9-19	28.7	1.7	--	--	53.8	--	--
Hyperformer HSC 398	9-20	39.7	2.0	--	--	53.8	--	--
Merschman Washington VI	9-16	40.6	1.3	1.7	1.0	53.8	53.6	47.8*
M/W Genetics G 3870	9-19	39.2	1.7	--	--	53.8	--	--
Vigoro KE 358	9-17	45.5	2.3	1.7	1.4	53.7	48.4	43.5
Williams 82	9-23	48.5	2.7	2.3	--	53.7	46.7	--
Willcross 92B	9-23	42.0	1.7	--	--	53.6	--	--
Research Seed Galaxy	9-19	42.4	1.7	--	--	53.6	--	--
Lynks 5376	9-17	39.3	1.7	1.8	--	53.5	48.4	--
NeCo 1051N	9-17	41.5	1.7	1.4	--	53.2	56.1	--
Northrup King S29-39	9-17	35.3	3.0	--	--	53.2	--	--
NeCo 7392	9-20	41.9	1.3	2.2	--	53.1	53.5	--
Stine 3240	9-17	39.6	1.3	--	--	53.1	--	--
Lynks 5350	9-16	36.3	1.0	--	--	53.0	--	--
Masco Omega	9-15	40.8	1.7	1.7	1.0	53.0	53.4	43.3
Kunitz	9-19	46.1	3.7	2.8	--	53.0	45.6	--
Willcross 92A	9-19	42.7	1.7	--	--	52.9	--	--
MFA Morsoy 9135SCN	9-18	44.9	2.0	--	--	52.9	--	--
Dairyland DSR-331	9-16	36.8	1.3	--	--	52.8	--	--
Kruger K4040	9-20	38.5	1.7	1.3	--	52.8	56.3	--
Dekalb CX366	9-17	42.2	2.0	1.9	1.0	52.8	52.2	45.9*
Lewis 367	9-23	44.2	2.0	1.7	1.0	52.8	52.8	45.6
Shissler GR8 385	9-20	49.2	3.0	1.7	1.0	52.6	47.0	45.1
Kruger K3268	9-16	38.4	1.0	--	--	52.4	--	--
NC† 3M28	9-15	42.1	2.0	--	--	52.1	--	--
Lewis 356	9-19	35.2	1.7	--	--	52.0	--	--
Harper 87	9-17	37.0	1.7	1.5	1.0	51.9	57.4	47.6*
Fontanelle 5621	9-18	44.6	1.7	--	--	51.9	--	--
Asgrow A3431	9-19	38.8	1.7	--	--	51.8	--	--
Fontanelle 6100	9-20	42.8	1.7	--	--	51.8	--	--
Hyperformer HSC 355	9-15	39.2	1.7	--	--	51.8	--	--
Fontanelle 5319	9-16	36.6	2.3	1.0	1.0	51.7	53.6	51.7*
United AgriProducts 3301	9-16	39.5	1.0	--	--	51.7	--	--
Ohlde 3500	9-17	44.6	2.0	1.6	--	51.5	50.8	--
Desoy 343	9-18	41.9	2.3	--	--	51.5	--	--
Desoy 330	9-18	35.9	1.0	--	--	51.4	--	--
Taylor 399	9-21	38.5	1.3	1.3	--	51.4	56.0	--
Dairyland DSR-317	9-18	42.8	2.0	1.1	--	51.3	54.5	--
Hyperformer HSC 339	9-17	34.8	1.0	--	--	51.2	--	--
NeCo 1200	9-21	45.6	2.0	3.0	1.0	51.2	51.8	46.0*
Desoy 323	9-16	40.0	2.3	2.0	--	51.1	66.0**	--
Merschman Truman III	9-17	38.6	2.3	1.2	1.0	51.1	55.3	44.9
Ohlde 3750A	9-19	42.7	2.3	--	--	50.6	--	--
Shissler GR8 397	9-17	38.4	1.7	--	--	50.5	--	--
Research Seed Express	9-19	36.8	2.0	2.6	1.0	50.4	51.9	43.6
Diamond D301	9-18	45.9	2.3	--	1.4	50.3	--	43.3
Resnik	9-15	38.2	1.0	2.1	1.0	50.3	52.8	42.6
Asgrow A3322	9-17	35.8	1.0	1.1	1.0	50.3	58.8*	46.2*

TABLE 2. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
Willcross 90	9-21	50.4	3.7	3.3	--	50.3	45.9	--
Ray Carroll 3330	9-18	41.2	1.3	--	--	49.9	--	--
Ohlde 3710	9-16	42.7	1.3	1.4	--	49.6	54.0	--
Golden Harvest H-1355	9-21	43.4	1.3	1.8	1.3	49.3	50.2	45.9*
Golden Harvest H-1308	9-15	40.6	1.3	1.2	1.0	49.2	56.1	50.2*
Ray Carroll 938	9-16	40.3	1.3	1.3	--	49.1	53.7	--
Morning Sun MSS-3300	9-16	39.1	2.0	1.2	1.0	48.7	60.5*	50.8*
Merschman Garfield	9-15	41.9	1.3	2.0	1.0	48.6	53.6	42.3
Northrup King S38-83	9-19	43.3	2.7	--	--	48.5	--	--
Desoy 331	9-17	37.8	2.0	--	--	48.3	--	--
Reeds Brand 333	9-16	44.3	2.7	2.0	1.0	48.3	49.4	44.5
4.0 Maturity Group Check##	9-23							
AVERAGE	9-18	39.9	1.7	1.9	1.2	54.3	52.1	44.4
LSD (.05)	3	4.2	0.8	0.9	0.5	6.0	8.0	5.6
CV (%)	0.6	6.5				6.8	9.5	7.8
MATURITY GROUP 4								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-23							
Desoy 410	9-21	37.7	1.7	--	--	60.2**	--	--
Lynks 5415	9-20	40.2	1.4	1.0	--	58.0*	56.2*	--
Kruger K4141	9-22	41.7	1.4	--	--	55.0*	--	--
Ray Carroll 4140	9-20	40.9	1.0	1.9	--	54.8*	61.7**	--
Corsica#	9-19	34.6	2.3	--	--	54.7*	--	--
MFA Morsoy 8842	9-23	41.4	2.3	2.7	2.1	54.6*	50.1	45.1*
Diamond SC400	9-21	38.6	1.7	--	--	54.5*	--	--
AgriPro AP 4420	9-24	45.1	3.0	--	--	54.5*	--	--
Pioneer Variety 9443	9-23	39.1	2.2	2.1	--	54.2*	45.8	--
Lewis 409	9-21	40.1	1.7	--	--	54.1*	--	--
Stine 3090	9-21	42.0	1.0	3.0	1.7	54.0*	56.1*	47.3*
Merschman Austin	9-25	43.7	2.6	2.2	--	53.9*	45.0	--
Ohlde 4040#	9-19	39.9	1.6	1.4	--	53.4	57.6*	--
Golden Harvest H-1407#	9-19	38.7	1.3	2.0	--	52.8	58.0*	--
Merschman Norfolk	9-20	44.7	1.7	1.0	--	52.6	54.5*	--
Ciba Geigy G Brand 3411#	9-19	41.7	2.0	--	--	52.2	--	--
Hamilton#	9-18	38.7	2.6	2.1	1.7	52.1	56.0*	49.3*
Terra - TS 402	9-21	43.5	1.0	--	--	52.0	--	--
Wilson 4010#	9-19	40.5	2.0	2.0	--	51.6	58.7*	--
Dekalb CX404	9-21	40.0	1.3	--	--	51.1	--	--
Kruger K4343	9-24	53.8	4.7	--	--	51.1	--	--
Merschman Boston III	9-23	46.3	3.7	1.2	1.4	50.8	53.9*	49.1*
Ray Carroll 4656	9-26	43.6	3.0	3.2	--	50.7	48.9	--
Dekalb CX415	9-22	46.3	3.1	3.2	1.5	49.9	50.6	44.9*
Merschman Atlanta II	9-24	42.7	3.0	3.3	3.1	49.8	41.5	40.4
Stine 4350	9-26	46.8	4.3	--	--	48.3	--	--
Asgrow A4715	9-28	44.4	3.3	--	--	48.3	--	--
AgriGene AG 545	9-26	47.1	3.7	--	--	48.0	--	--
Merschman Dallas	10-02	46.7	4.6	3.5	1.3	36.8	46.2	44.6*
5.0 Maturity Group Check##	10-01							
AVERAGE	9-22	42.6	2.4	2.5	2.3	52.2	51.0	43.6
LSD (.05)	3	7.4	1.2	1.3	0.5	6.5	8.0	7.7
CV (%)	0.7	10.6				7.6	9.6	10.8
TRIAL AVERAGE		40.4	1.8	2.0	1.4	53.8	51.9	44.5

-- 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 3.

# Variety is grouped as originally entered, but due to actual recorded maturity dates may need to be reclassified into a different 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 1990-92.

Planted: 6 May 1992  
 Harvested: 29 September 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=6.2, OM=1.5%, P=65, K=261

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Prowl + Scepter + Command  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 0 eggs / 250cc of soil  
 Growing Season Rainfall: May=0.9, June=0.4, July=12.7, Aug.=1.6, Sept.=3.9, TOTAL=19.5"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	<b>MATURITY GROUP 2</b>							
<u>COMMERCIAL VARIETIES</u>								
Terra - Flame	9-12	35.3	1.0	--	--	56.0**	--	--
Reeds Brand 222	9-10	31.8	1.0	1.0	1.0	55.0	26.1**	30.8**
United AgriProducts 3290	9-07	34.3	1.3	1.0	--	51.7	23.4	--
Golden Harvest H-1271	9-07	34.0	1.0	1.0	--	51.5	23.1	--
3.0 Maturity Group Check##	9-11							
AVERAGE	9-09	33.9	1.1	1.0	1.0	53.6	24.2	29.0
LSD (.05)	1	2.1	NS	NS	NS	NS	NS	NS
CV (%)	0.5	5.1				7.4	23.6	14.2
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
3.0 Maturity Group Check##	9-11							
Golden Harvest H-1353	9-16	40.7	2.0	--	--	67.4**	--	--
Ciba Geigy G Brand 3362	9-16	40.3	2.0	--	--	66.8*	--	--
Kruger K3838	9-16	40.7	2.5	1.0	--	66.2*	36.2*	--
NeCo 1051N	9-19	40.7	1.6	1.0	--	65.7*	33.5*	--
Pioneer Variety 9381	9-15	36.3	2.1	1.0	1.0	65.7*	33.0*	34.1
Kruger K3808	9-15	45.0	2.4	--	--	65.1*	--	--
Dairyland DSR-317	9-17	47.0	2.4	1.0	--	65.1*	36.0*	--
Pioneer Variety 9392	9-17	39.0	1.0	1.0	--	65.0*	32.8*	--
Wilson 3250	9-10	41.7	2.0	1.0	--	64.6*	35.4*	--
Vigoro KE 358	9-13	43.3	2.0	1.0	1.0	64.5*	32.1*	33.9
Lynks 5376	9-15	40.3	1.4	1.0	--	64.2*	32.8*	--
Desoy 331A	9-15	36.0	2.0	--	--	64.2*	--	--
Masco Ruler	9-15	40.3	1.6	1.0	--	64.2*	33.4*	--
Hyperformer HSC 317	9-12	38.7	1.4	--	--	64.0*	--	--
ICI D371	9-15	41.3	1.9	--	--	63.7*	--	--
Kruger K3769+	9-15	38.3	1.7	1.0	--	63.7*	32.5*	--
Willcross 92A	9-17	41.7	2.0	--	--	63.6*	--	--
NeCo 7392	9-19	41.3	1.3	1.0	--	62.7*	36.1*	--
Merschman Harrison II	9-10	39.7	2.1	--	--	62.6*	--	--
Desoy 333	9-14	39.0	2.1	1.0	--	62.5*	35.3*	--
Hyperformer HSC 398	9-18	42.7	1.9	--	--	62.5*	--	--
Lewis 388	9-14	40.7	1.2	1.0	--	62.3*	34.9*	--
NC+ 3A81	9-17	42.3	1.4	1.0	--	62.1*	31.1	--
Masco Recyster	9-15	40.3	1.2	1.0	1.0	62.1*	31.4	32.7
AgriPro AP 3550	9-12	35.3	1.0	--	--	61.9*	--	--
Fontanelle 5621	9-22	47.3	2.0	--	--	61.8*	--	--
MFA Morsoy 9137	9-14	41.0	2.2	--	--	61.7*	--	--
Diamond D301	9-18	46.0	2.1	--	1.0	61.6*	--	34.4
Jacques J-399	9-22	42.3	1.7	--	--	61.4*	--	--
Kruger K3303	9-14	38.3	1.4	--	--	61.3*	--	--
Pioneer Variety 9341	9-12	38.7	1.0	1.0	1.0	61.2*	33.6*	36.0
M/W Genetics G 3870	9-14	39.7	1.3	--	--	61.1*	--	--
Morning Sun MSS-3893	9-15	42.7	2.1	--	--	60.9*	--	--
Ciba Geigy G Brand 3388	9-14	41.7	1.7	1.0	--	60.8*	33.3*	--
Northrup King S29-39	9-13	36.0	2.4	--	--	60.7	--	--
Merschman Kennedy IV	9-15	40.3	2.0	--	--	60.7	--	--
Kruger K4040	9-16	40.3	1.5	1.0	--	60.7	31.9	--

TABLE 3. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (in)	1992	1991	1990	1992	1991	1990
Asgrow A3322	9-14	37.7	2.0	1.0	1.0	60.6	32.9*	31.0
Lynks 5327	9-13	37.3	1.0	1.0	--	60.6	35.9*	--
Fontanelle 5999	9-17	40.7	2.0	1.0	1.0	60.5	31.0	32.5
NC+ 3M28	9-11	39.7	2.0	--	--	60.5	--	--
MFA Morsoy 9135SCN	9-16	45.3	1.3	--	--	60.3	--	--
Kruger K3939	9-17	43.7	2.2	1.0	--	60.2	34.4*	--
Willcross 92B	9-21	42.0	1.7	--	--	60.1	--	--
Research Seed Galaxy	9-17	41.3	2.0	--	--	60.0	--	--
Lynks 5350	9-16	36.0	1.0	--	--	60.0	--	--
Sfine 3240	9-15	39.7	1.2	--	--	60.0	--	--
Research Seed Buchanan	9-14	40.7	1.7	1.0	1.0	59.9	35.0*	32.7
Diamond SC357	9-12	41.3	1.0	1.0	1.0	59.8	33.6*	37.8
Kruger K3333	9-08	37.0	2.1	--	--	59.8	--	--
M/W Genetics G 3550	9-14	39.7	1.7	--	--	59.7	--	--
MFA Morsoy 9233	9-14	40.3	1.2	--	--	59.6	--	--
Shissler GR8 397	9-16	41.0	1.7	--	--	59.5	--	--
Ohlde 3750A	9-17	46.3	2.0	--	--	59.5	--	--
Merschman Eisenhower II	9-21	42.0	2.3	1.0	1.0	59.4	34.7*	39.7*
MFA Morsoy 8838	9-21	43.0	2.0	1.0	1.0	59.4	33.2*	32.1
Desoy 303	9-08	38.0	2.1	1.0	--	59.3	34.2*	--
Vigoro KE 371	9-16	39.7	1.0	1.0	1.0	59.3	30.5	41.8*
Hyperformer HSC 339	9-14	38.7	1.0	--	--	59.2	--	--
Northrup King S35-35	9-10	39.3	1.7	--	--	59.1	--	--
Shissler GR8 385	9-17	48.0	2.2	1.0	1.0	59.1	33.8*	31.0
Morning Sun MSS-3300	9-14	41.3	2.4	1.0	1.0	58.8	37.2**	36.6
Ohlde 3710	9-18	43.7	1.3	1.0	--	58.8	34.7*	--
Lewis 367	9-16	44.0	2.0	1.0	1.0	58.8	32.0	36.2
Williams 82	9-24	45.0	2.4	1.3	--	58.8	28.0	--
Fontanelle 6100	9-17	40.0	1.3	--	--	58.7	--	--
Morning Sun MSS-3690	9-17	43.3	2.1	1.0	--	58.7	31.9	--
Reeds Brand 330	9-17	36.0	1.0	1.0	1.0	58.6	32.0	34.5
Desoy 323	9-12	41.3	1.1	1.0	--	58.6	29.0	--
AgriPro AP 3990	9-16	38.0	1.1	--	--	58.6	--	--
Merschman Hoover III	9-08	36.7	1.3	--	--	58.6	--	--
Hyperformer HSC 355	9-12	37.7	1.0	--	--	58.6	--	--
Fontanelle 5319	9-13	42.0	2.7	1.0	1.0	58.5	32.3*	27.9
Merschman Coolidge	9-15	38.7	1.0	--	--	58.5	--	--
Taylor 399	9-19	42.3	2.7	1.0	--	58.4	28.9	--
NeCo 1200	9-16	44.3	1.9	1.0	1.0	58.3	30.6	34.1
Terra - Torch	9-15	39.7	2.0	1.0	--	58.3	31.5	--
Kruger K3268	9-13	39.3	1.1	--	--	58.2	--	--
Unifed AgriProducts 3301	9-10	40.0	1.0	--	--	58.1	--	--
Golden Harvest H-1308	9-15	40.7	2.3	1.0	1.0	57.8	27.8	34.9
Terra - TS 312	9-08	37.0	2.0	--	--	57.7	--	--
Edison	9-12	41.7	1.0	1.0	--	57.6	30.1	--
Dairyland DSR-331	9-14	43.0	1.3	--	--	57.5	--	--
Asgrow A3431	9-16	41.7	1.4	--	--	57.5	--	--
Harper 87	9-15	37.0	1.9	1.0	1.0	57.5	28.4	30.0
Merschman Truman III	9-15	40.0	1.3	1.0	1.0	57.5	33.2*	33.8
Dekalb CX366	9-19	42.3	2.1	1.0	1.0	57.4	29.8	32.5
Desoy 383	9-17	41.7	1.7	--	--	57.3	--	--
Ray Carroll 3330	9-17	44.7	1.9	--	--	57.3	--	--
Diamond Champion	9-15	36.0	1.0	1.0	1.0	57.2	33.9*	43.5**
Desoy 331	9-14	34.7	2.0	--	--	57.2	--	--
Lewis 356	9-20	35.0	1.6	--	--	57.1	--	--
Golden Harvest H-1355	9-15	46.0	2.4	1.0	1.0	57.1	32.3*	34.6
Desoy 343	9-16	44.0	2.6	--	--	57.0	--	--
Ray Carroll 938	9-15	39.0	1.9	1.0	--	56.9	36.5*	--
Pioneer Variety 9391	9-17	40.7	1.7	1.0	1.0	56.9	29.9	39.6*
Desoy 330	9-14	37.3	1.1	--	--	56.8	--	--
Masco Omega	9-13	41.3	1.2	1.0	1.0	56.6	31.1	35.0
Reeds Brand 390	9-20	40.7	1.7	1.0	--	56.5	30.0	--
Resnik	9-11	40.7	1.7	1.0	1.0	56.3	29.8	36.6
Merschman Washington VI	9-17	43.3	2.0	1.0	1.0	56.1	33.1*	35.8
Charleston	9-16	22.3	1.1	--	--	55.8	--	--

TABLE 3. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
Flyer	9-21	38.7	1.4	1.0	1.0	55.8	29.6	38.2*
AgriPro AP 3800	9-18	39.3	2.1	1.0	1.0	54.9	32.7*	36.0
Research Seed Express	9-17	42.0	2.6	1.0	1.0	54.9	33.1*	31.0
Reeds Brand 333	9-18	47.3	2.0	1.0	1.0	54.4	28.6	34.2
Merschman Roosevelt	9-20	39.0	2.3	1.0	1.0	54.3	32.2*	35.6
Willcross 90	9-25	46.3	3.7	1.0	--	54.1	31.9	--
Ohlde 3500	9-16	43.0	1.7	1.0	--	54.0	31.0	--
Kunitz	9-18	43.7	4.0	1.0	--	54.0	30.4	--
Northrup King S38-83	9-18	39.0	3.1	--	--	48.4	--	--
Merschman Garfield	9-13	42.0	2.0	1.0	1.3	46.1	33.9*	35.5
4.0 Maturity Group Check##	9-26							
AVERAGE	9-15	40.6	1.8	1.0	1.0	59.5	32.2	34.8
LSD (.05)	4	4.6	0.9	NS	0.3	6.6	5.1	5.4
CV (%)	1.0	7.0				6.9	9.9	9.6
MATURITY GROUP 4								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-26							
Desoy 410	9-27	41.9	2.0	--	--	64.8**	--	--
Kruger K4141	9-25	40.8	2.0	--	--	64.8**	--	--
Stine 3090	9-23	41.0	2.0	1.0	1.0	62.4*	30.8*	37.2*
Merschman Boston III	9-27	48.0	2.0	1.0	1.0	61.7*	31.6*	36.2*
Corsica#	9-18	40.1	2.0	--	--	61.5*	--	--
Ohlde 4040#	9-19	41.6	1.3	1.0	--	60.6*	29.5*	--
Golden Harvest H-1407#	9-17	40.5	1.3	1.0	--	60.5*	34.9*	--
Wilson 4010	9-19	41.5	1.7	1.0	--	59.8*	32.8*	--
AgriPro AP 4420	9-28	45.1	2.3	--	--	59.6*	--	--
Dekalb CX404	9-20	39.8	1.3	--	--	59.5*	--	--
Hamilton#	9-21	37.0	2.0	1.3	1.0	59.2	35.1**	40.4*
Merschman Atlanta II	9-27	46.7	3.3	1.3	1.0	58.1	30.0*	30.4
MFA Morsoy 8842	9-28	44.7	2.0	1.0	1.0	57.9	29.9*	34.2*
Lynks 5415	9-21	40.2	1.3	1.0	--	57.9	32.4*	--
Terra - TS 402	9-18	39.4	1.0	--	--	57.4	--	--
Diamond SC400	9-16	37.6	1.3	--	--	57.1	--	--
Lewis 409	9-16	37.2	1.3	--	--	57.1	--	--
Dekalb CX415	9-24	47.4	2.0	1.0	1.0	56.7	29.1*	30.1
Kruger K4343	9-28	52.5	4.0	--	--	56.4	--	--
Merschman Norfolk	9-17	40.3	2.0	1.0	--	56.2	30.7*	--
Merschman Austin	9-28	44.4	2.3	1.0	--	56.0	30.9*	--
Merschman Dallas	10-02	53.6	4.0	2.0	1.0	55.7	27.5	34.3*
Ciba Geigy G Brand 3411#	9-14	37.7	2.0	--	--	55.4	--	--
Pioneer Variety 9443	9-26	37.1	2.0	1.0	--	55.2	33.1*	--
Ray Carroll 4140#	9-17	37.3	1.0	1.0	--	54.9	33.8*	--
Ray Carroll 4656	9-28	45.7	3.0	1.0	--	54.5	32.4*	--
AgriGene AG 545	10-01	51.6	4.0	--	--	53.6	--	--
Stine 4350	9-28	50.6	3.3	--	--	51.0	--	--
Asgrow A4715	10-01	43.8	2.3	--	--	47.7	--	--
5.0 Maturity Group Check##	10-06							
AVERAGE	9-23	42.9	2.1	1.1	1.0	57.7	31.2	32.0
LSD (.05)	4	4.2	0.7	0.4	NS	5.4	6.1	4.9
CV (%)	0.8	6.0				5.8	12.0	9.4
TRIAL AVERAGE		40.9	1.8	1.0	1.0	59.0	31.7	34.0

-- 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 3.

# Variety is grouped as originally entered, but due to actual recorded maturity date may need to be reclassified into a different maturity group.

NS Not significant at the .05 level.

TABLE 4. Performance of Soybean Varieties evaluated at two Northern Missouri locations (Barnard and Novelty) during 1992.

**Barnard**  
 Planted: 4 May 1992  
 Harvested: 2 October 1992  
 Row Spacing: 30 inches  
 Planted Population: 156,800 seeds/A.

**Novelty**  
 Planted: 6 May 1992  
 Harvested: 29 September 1992  
 Row Spacing: 30 inches  
 Planted Population: 156,800 seeds/A.

Soil Type: Nodaway Silt Loam  
 Previous Crop: Corn  
 SCN Population at Harvest: 310 eggs  
 Growing Season Moisture: 24.9"

Soil Type: Putnam Silt Loam  
 Previous Crop: Corn  
 SCN Population at Harvest: 0 eggs  
 Growing Season Moisture: 19.5"

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Barnard	Novelty	Mean	Barnard	Novelty	Mean
<b>MATURITY GROUP 2</b>						
<b>COMMERCIAL VARIETIES</b>						
Terra - Flame	1.2	1.0	1.1	54.8**	56.0**	55.4**
Golden Harvest H-1271	1.5	1.0	1.2	53.3*	51.5*	52.4
Reeds Brand 222	1.2	1.0	1.1	47.5	55.0*	51.2
United AgriProducts 3290	1.8	1.3	1.6	47.5	51.7*	49.6
AVERAGE	1.4	1.1	1.3	50.8	53.6	52.2
LSD (.05)	0.5	NS	0.3	3.5	4.9	2.6
CV (%)				5.7	7.4	5.9
<b>MATURITY GROUP 3</b>						
<b>COMMERCIAL VARIETIES</b>						
Ciba Geigy G Brand 3362	1.3	2.0	1.6	60.6*	66.8*	63.7**
Kruger K3808	3.7	2.4	3.0	62.3*	65.1*	63.7**
Golden Harvest H-1353	1.3	2.0	1.6	59.8*	67.4**	63.6*
ICI D371	1.3	1.9	1.6	61.6*	63.7*	62.6*
Kruger K3769+	1.3	1.7	1.5	60.8*	63.7*	62.2*
Pioneer Variety 9381	1.3	2.1	1.7	57.8*	65.7*	61.8*
Merschman Harrison II	3.3	2.1	2.7	60.7*	62.6*	61.6*
MFA Morsoy 9137	1.3	2.2	1.8	61.1*	61.7*	61.4*
Desoy 303	2.0	2.1	2.0	63.4**	59.3	61.4*
Wilson 3250	1.3	2.0	1.6	57.9*	64.6*	61.2*
M/W Genetics G 3550	2.0	1.7	1.8	62.5*	59.7	61.1*
Merschman Kennedy IV	1.7	2.0	1.8	61.4*	60.7	61.0*
Desoy 331A	1.0	2.0	1.5	57.6*	64.2*	60.9*
Jacques J-399	1.0	1.7	1.4	60.2*	61.4*	60.8*
Kruger K3838	2.3	2.5	2.4	55.1	66.2*	60.6*
Desoy 333	2.0	2.1	2.0	58.4*	62.5*	60.4*
Masco Ruler	1.3	1.6	1.4	56.1	64.2*	60.2*
Morning Sun MSS-3893	1.7	2.1	1.9	59.3*	60.9*	60.1*
Pioneer Variety 9392	1.0	1.0	1.0	54.6	65.0*	59.8*
Hyperperformer HSC 317	1.7	1.4	1.6	55.3	64.0*	59.6*
Pioneer Variety 9341	1.3	1.0	1.2	57.9*	61.2*	59.6*
NeCo 1051N	1.7	1.6	1.6	53.2	65.7*	59.4*
Kruger K3939	1.7	2.2	2.0	58.1*	60.2	59.2*
Vigoro KE 358	2.3	2.0	2.2	53.7	64.5*	59.1*
Reeds Brand 330	2.0	1.0	1.5	59.6*	58.6	59.1*
Terra - TS 312	1.7	2.0	1.8	60.5*	57.7	59.1*
Ciba Geigy G Brand 3388	1.3	1.7	1.5	57.2	60.8*	59.0
Kruger K3303	1.3	1.4	1.4	56.5	61.3*	58.9
Lynks 5376	1.7	1.4	1.6	53.5	64.2*	58.8
Kruger K3333	1.0	2.1	1.6	57.7*	59.8	58.8
Diamond SC357	1.0	1.0	1.0	57.9*	59.8	58.8
NC+ 3A81	1.3	1.4	1.4	55.0	62.1*	58.6
Terra - Torch	1.3	2.0	1.6	58.6*	58.3	58.4
Lewis 388	1.7	1.2	1.4	54.3	62.3*	58.3
Dairyland DSR-317	2.0	2.4	2.2	51.3	65.1*	58.2
Masco Recyster	1.3	1.2	1.2	54.3	62.1*	58.2
Hyperperformer HSC 398	2.0	1.9	2.0	53.8	62.5*	58.2
Lynks 5327	1.0	1.0	1.0	55.9	60.6	58.2
Merschman Hoover III	1.0	1.3	1.2	57.7*	58.6	58.2
Willcross 92A	1.7	2.0	1.8	52.9	63.6*	58.2

TABLE 4. Continued.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Barnard	Novelty	Mean	Barnard	Novelty	Mean
Vigoro KE 371	1.3	1.0	1.2	56.6	59.3	58.0
AgriPro AP 3990	1.3	1.1	1.2	57.3	58.6	58.0
AgriPro AP 3550	1.0	1.0	1.0	54.2	61.9*	58.0
NeCo 7392	1.3	1.3	1.3	53.1	62.7*	57.9
Northrup King S35-35	1.3	1.7	1.5	56.6	59.1	57.8
Research Seed Buchanan	1.0	1.7	1.4	55.8	59.9	57.8
Diamond Champion	1.0	1.0	1.0	57.9*	57.2	57.6
Fontanelle 5999	1.3	2.0	1.6	54.7	60.5	57.6
M/W Genetics G 3870	1.7	1.3	1.5	53.8	61.1*	57.4
Merschman Eisenhower II	2.7	2.3	2.5	55.2	59.4	57.3
MFA Morsoy 8838	2.3	2.0	2.2	55.1	59.4	57.2
Northrup King S29-39	3.0	2.4	2.7	53.2	60.7	57.0
MFA Morsoy 9233	1.0	1.2	1.1	54.5	59.6	57.0
Research Seed Galaxy	1.7	2.0	1.8	53.6	60.0	56.8
Fontanelle 5621	1.7	2.0	1.8	51.9	61.8*	56.8
Morning Sun MSS-3690	2.3	2.1	2.2	54.8	58.7	56.8
Kruger K4040	1.7	1.5	1.6	52.8	60.7	56.8
Willcross 92B	1.7	1.7	1.7	53.6	60.1	56.8
MFA Morsoy 9135SCN	2.0	1.3	1.6	52.9	60.3	56.6
Stine 3240	1.3	1.2	1.2	53.1	60.0	56.6
Lynks 5350	1.0	1.0	1.0	53.0	60.0	56.5
Merschman Coolidge	1.0	1.0	1.0	54.3	58.5	56.4
Pioneer Variety 9391	2.0	1.7	1.8	55.8	56.9	56.4
NC+ 3M28	2.0	2.0	2.0	52.1	60.5	56.3
Edison	1.0	1.0	1.0	54.9	57.6	56.2
Williams 82	2.7	2.4	2.6	53.7	58.8	56.2
Flyer	1.3	1.4	1.4	56.6	55.8	56.2
Diamond D301	2.3	2.1	2.2	50.3	61.6*	56.0
Lewis 367	2.0	2.0	2.0	52.8	58.8	55.8
Shissler GR8 385	3.0	2.2	2.6	52.6	59.1	55.8
Desoy 383	2.0	1.7	1.8	54.1	57.3	55.7
Asgrow A3322	1.0	2.0	1.5	50.3	60.6	55.4
Kruger K3268	1.0	1.1	1.0	52.4	58.2	55.3
Hyperformer HSC 339	1.0	1.0	1.0	51.2	59.2	55.2
Dairyland DSR-331	1.3	1.3	1.3	52.8	57.5	55.2
Reeds Brand 390	1.3	1.7	1.5	53.9	56.5	55.2
Fontanelle 6100	1.7	1.3	1.5	51.8	58.7	55.2
Hyperformer HSC 355	1.7	1.0	1.4	51.8	58.6	55.2
Dekalb CX366	2.0	2.1	2.0	52.8	57.4	55.1
Fontanelle 5319	2.3	2.7	2.5	51.7	58.5	55.1
Shissler GR8 397	1.7	1.7	1.7	50.5	59.5	55.0
Ohlde 3750A	2.3	2.0	2.2	50.6	59.5	55.0
Merschman Washington VI	1.3	2.0	1.6	53.8	56.1	55.0
United AgriProducts 3301	1.0	1.0	1.0	51.7	58.1	54.9
Taylor 399	1.3	2.7	2.0	51.4	58.4	54.9
NeCo 1200	2.0	1.9	2.0	51.2	58.3	54.8
Charleston	1.7	1.1	1.4	53.8	55.8	54.8
Desoy 323	2.3	1.1	1.7	51.1	58.6	54.8
Masco Omega	1.7	1.2	1.4	53.0	56.6	54.8
Harper 87	1.7	1.9	1.8	51.9	57.5	54.7
Merschman Roosevelt	2.3	2.3	2.3	54.9	54.3	54.6
Lewis 356	1.7	1.6	1.6	52.0	57.1	54.6
Asgrow A3431	1.7	1.4	1.6	51.8	57.5	54.6
AgriPro AP 3800	2.0	2.1	2.0	53.9	54.9	54.4
Merschman Truman III	2.3	1.3	1.8	51.1	57.5	54.3
Desoy 343	2.3	2.6	2.4	51.5	57.0	54.2
Ohlde 3710	1.3	1.3	1.3	49.6	58.8	54.2
Desoy 330	1.0	1.1	1.0	51.4	56.8	54.1
Morning Sun MSS-3300	2.0	2.4	2.2	48.7	58.8	53.8
Ray Carroll 3330	1.3	1.9	1.6	49.9	57.3	53.6
Kunitz	3.7	4.0	3.8	53.0	54.0	53.5
Golden Harvest H-1308	1.3	2.3	1.8	49.2	57.8	53.5
Resnik	1.0	1.7	1.4	50.3	56.3	53.3
Golden Harvest H-1355	1.3	2.4	1.8	49.3	57.1	53.2
Ray Carroll 938	1.3	1.9	1.6	49.1	56.9	53.0
Desoy 331	2.0	2.0	2.0	48.3	57.2	52.8

TABLE 4. Continued.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Barnard	Novelty	Mean	Barnard	Novelty	Mean
Ohlde 3500	2.0	1.7	1.8	51.5	54.0	52.8
Research Seed Express	2.0	2.6	2.3	50.4	54.9	52.6
Willcross 90	3.7	3.7	3.7	50.3	54.1	52.2
Reeds Brand 333	2.7	2.0	2.4	48.3	54.4	51.4
Northrup King S38-83	2.7	3.1	2.9	48.5	48.4	48.4
Merschman Garfield	1.3	2.0	1.6	48.6	46.1	47.4
AVERAGE	1.7	1.8	1.7	54.3	59.5	56.9
LSD (.05)	0.8	0.9	0.6	6.0	6.6	4.6
CV (%)				6.8	6.9	7.1
MATURITY GROUP 4						
<u>COMMERCIAL VARIETIES</u>						
Desoy 410	1.7	2.0	1.8	60.2**	64.8**	62.5**
Kruger K4141	1.4	2.0	1.7	55.0*	64.7*	59.8*
Stine 3090	1.0	2.0	1.5	54.0*	62.4*	58.2
Corsica	2.3	2.0	2.2	54.7*	61.5*	58.1
Lynks 5415	1.4	1.3	1.4	58.0*	57.9	58.0
AgriPro AP 4420	3.0	2.3	2.6	54.5*	59.6*	57.0
Ohlde 4040	1.6	1.3	1.4	53.4	60.6*	57.0
Golden Harvest H-1407	1.3	1.3	1.3	52.8	60.5*	56.6
MFA Morsoy 8842	2.3	2.0	2.2	54.6*	57.9	56.2
Merschman Boston III	3.7	2.0	2.8	50.8	61.6*	56.2
Diamond SC400	1.7	1.3	1.5	54.5*	57.1	55.8
Wilson 4010	2.0	1.7	1.8	51.6	59.8*	55.7
Hamilton	2.6	2.0	2.3	52.1	59.3	55.7
Lewis 409	1.7	1.3	1.5	54.1*	57.0	55.6
Dekalb CX404	1.3	1.3	1.3	51.1	59.6*	55.4
Merschman Austin	2.6	2.3	2.4	53.9*	56.0	55.0
Ray Carroll 4140	1.0	1.0	1.0	54.8*	54.8	54.8
Pioneer Variety 9443	2.2	2.0	2.1	54.2*	55.5	54.8
Terra - TS 402	1.0	1.0	1.0	52.0	57.4	54.7
Merschman Norfolk	1.7	2.0	1.8	52.6	56.1	54.4
Merschman Atlanta II	3.0	3.3	3.2	49.8	58.1	54.0
Ciba Geigy G Brand 3411	2.0	2.0	2.0	52.2	55.6	53.9
Kruger K4343	4.7	4.0	4.4	51.1	56.4	53.8
Dekalb CX415	3.1	2.0	2.6	49.9	56.5	53.2
Ray Carroll 4656	3.0	3.0	3.0	50.7	54.4	52.6
AgriGene AG 545	3.7	4.0	3.8	48.0	53.5	50.8
Stine 4350	4.3	3.3	3.8	48.3	51.0	49.6
Asgrow A4715	3.3	2.3	2.8	48.3	47.9	48.1
Merschman Dallas	4.6	4.0	4.3	36.8	55.8	46.3
AVERAGE	2.4	2.1	2.3	52.2	57.7	55.0
LSD (.05)	1.2	0.7	0.7	6.5	5.4	4.2
CV (%)				7.6	5.8	6.8
TRIAL AVERAGE	1.8	1.8	1.8	53.8	59.0	56.4

\*\* 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 5. Performance of Soybean Varieties evaluated near Miami (Saline County) on the George Hamilton Farm during 1992 and near Grand Pass (Saline County) on the Ryland and Fred Uflaut Farm during 1990-91.

Planted: 13 May 1992  
 Harvested: 5 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Leta Silty Clay  
 Soil Test: pH=7.5, OM=1.6%, P=106, K=773

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Dual + Canopy  
 Post: Poast, Galaxy  
 Irrigation: 0.00 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 0 eggs / 250cc of soil  
 Growing Season Rainfall: May=0.9, June=2.4, July=8.4, Aug.=2.4, Sept.=5.2, TOTAL=19.3"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 2</b>								
<b>COMMERCIAL VARIETIES</b>								
Reeds Brand 222	9-15	36.8	1.0	1.0	1.0	53.6**	58.6**	58.8
AVERAGE	9-15	36.8	1.0	1.0	1.3	53.6	58.6	59.2
<b>MATURITY GROUP 3</b>								
<b>COMMERCIAL VARIETIES</b>								
3.0 Maturity Group Check##	9-15							
Golden Harvest H-1353	9-20	40.2	1.3	--	--	62.8**	--	--
Merschman Kennedy IV	9-20	41.4	2.0	--	--	61.3**	--	--
Ciba Geigy G Brand 3362	9-21	40.5	1.3	--	--	60.8*	--	--
ICI D371	9-20	41.7	2.0	--	--	60.5*	--	--
Charleston	9-21	26.5	1.0	--	--	59.6*	--	--
Reeds Brand 330	9-20	34.2	1.3	1.0	1.0	59.2*	47.3	53.3*
Kruger K3769+	9-18	38.8	1.3	--	--	58.5*	--	--
JMS 3791	9-21	40.8	1.3	1.0	--	57.8*	53.6*	--
Kruger K3939	9-20	42.1	2.0	--	--	57.2*	--	--
Vigoro KE 392	9-21	44.5	2.0	--	--	56.8	--	--
Terra - Torch	9-20	40.8	1.0	2.0	--	56.6	56.3*	--
Kruger K4040	9-19	40.9	1.0	--	--	56.4	--	--
NeCo 1200	9-21	45.6	1.3	2.3	1.3	56.3	44.1	51.7*
Lewis 367	9-21	43.9	2.0	1.7	1.0	56.2	52.6*	57.1*
Fontanelle 6100	9-19	40.3	1.0	--	--	55.9	--	--
Pioneer Variety 9391	9-20	45.0	2.0	1.3	1.7	55.8	52.1*	55.0*
Dairyland DSR-331	9-19	37.3	1.0	--	--	55.3	--	--
Stine 3250	9-18	40.9	1.0	--	--	54.7	--	--
Stine 3390	9-19	40.4	1.0	--	--	54.6	--	--
Willcross 90	9-22	45.9	2.0	2.7	--	54.5	43.3	--
United AgriProducts 3371	9-19	33.2	1.0	--	--	54.4	--	--
Reeds Brand 333	9-20	49.0	1.3	1.6	1.7	54.3	52.4*	50.3
AgriPro AP 3990	9-20	38.1	1.0	--	--	54.1	--	--
AgriPro AP 3800	9-20	40.5	1.7	1.0	1.0	54.1	44.1	56.3*
Willcross 92A	9-22	40.0	1.3	--	--	54.0	--	--
Fontanelle 5999	9-18	40.9	1.0	1.4	1.0	53.8	53.5*	54.1*
Terra - TS 312	9-12	36.3	1.7	--	--	53.6	--	--
Lewis 388	9-18	40.4	1.0	1.3	1.0	53.5	49.8	54.2*
NC+ 3A81	9-20	40.1	1.3	1.4	--	53.5	46.0	--
Merschman Roosevelt	9-20	40.7	2.0	2.5	2.0	53.4	45.8	55.4*
Merschman Eisenhower II	9-22	42.3	2.0	1.9	2.0	53.3	53.1*	54.5*
Pioneer Variety 9381	9-21	37.3	1.3	1.0	1.0	53.3	53.6*	46.3
NeCo 1051N	9-20	39.3	1.0	1.2	--	53.2	42.8	--
Kunitz	9-18	45.0	2.0	2.4	--	53.0	50.9	--
Williams 82	9-22	45.5	2.0	1.7	--	52.9	42.9	--
Willcross 92B	9-20	40.0	1.0	--	--	52.9	--	--
Dekalb CX366	9-17	42.1	1.7	1.6	1.3	52.8	46.8	53.7*
Reeds Brand 390	9-20	41.5	1.3	1.3	--	52.8	54.4*	--
MFA Morsoy 9137	9-19	39.3	1.7	--	--	52.6	--	--
Hyperformer HSC 355	9-18	37.1	1.0	--	--	52.6	--	--
Golden Harvest H-1355	9-20	47.5	1.7	2.4	1.3	52.4	50.8	54.2*
Diamond D301	9-19	43.6	2.0	--	1.7	52.4	--	50.7
Pioneer Variety 9392	9-21	42.2	1.0	1.0	--	52.4	45.8	--

TABLE 5. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
Edison	9-19	40.2	1.0	1.0	--	52.3	53.1*	--
Dairyland DSR-317	9-21	45.7	2.0	--	--	52.2	--	--
JMS 3609	9-20	43.4	1.7	1.1	--	52.0	47.9	--
Masco Recyster	9-18	41.1	1.0	--	1.0	52.0	--	53.4*
Vigoro KE 371	9-20	37.4	1.0	--	--	52.0	--	--
Golden Harvest H-1308	9-15	39.6	2.0	1.0	1.0	51.8	51.1	52.3*
MFA Morsoy 8838	9-21	44.5	2.0	1.3	2.0	51.8	49.5	51.9*
NeCo 7392	9-22	39.8	1.3	1.6	--	51.7	49.1	--
Hyperformer HSC 339	9-18	35.8	1.0	--	--	51.6	--	--
Fontanelle 5621	9-20	45.5	1.7	--	--	51.5	--	--
Flyer	9-22	40.2	1.0	2.0	1.0	51.5	46.4	48.1
MFA Morsoy 9135SCN	9-19	42.6	1.0	--	--	51.4	--	--
Ciba Geigy G Brand 3388	9-17	40.9	1.0	1.4	--	51.3	46.9	--
Merschman Truman III	9-19	37.5	1.3	1.0	1.3	50.8	49.3	55.5*
Merschman Coolidge	9-15	36.9	1.0	--	--	50.7	--	--
United AgriProducts 3340	9-18	42.4	1.0	1.4	--	50.7	51.1	--
Asgrow A3733	9-20	39.9	1.0	1.0	1.0	50.7	51.8*	55.7*
Lewis 356	9-20	33.6	1.0	--	--	50.4	--	--
Merschman Garfield	9-17	45.8	1.3	--	1.0	50.2	--	47.7
Hyperformer HSC 398	9-21	40.6	1.0	--	--	50.1	--	--
Ray Carroll 3330	9-21	42.6	1.3	--	--	50.0	--	--
Ray Carroll 938	9-20	40.4	1.0	1.4	--	48.7	51.8*	--
Merschman Washington VI	9-20	42.2	1.3	1.6	1.7	48.4	47.8	53.0*
JMS 3009	9-15	40.7	1.0	--	--	47.6	--	--
MFA Morsoy 9038	9-20	38.8	2.0	--	--	47.4	--	--
United AgriProducts 3301	9-16	37.2	1.0	--	--	47.2	--	--
Resnik	9-15	36.5	1.0	1.1	1.0	44.9	44.3	46.4
<b>EXPERIMENTAL VARIETIES</b>								
Willcross Exp 94A	9-19	40.0	1.0	--	--	50.7	--	--
4.0 Maturity Group Check##	9-22							
AVERAGE	9-19	40.6	1.4	1.6	1.4	53.4	48.6	52.1
LSD (.05)	2	3.6	0.5	0.9	0.6	5.9	8.0	7.4
CV (%)	0.5	5.5				6.8	10.2	8.8
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	9-22							
JMS 4140	9-24	42.7	1.3	2.0	--	61.9**	54.7*	--
Merschman Austin	9-28	45.0	2.0	2.7	--	60.1*	52.3*	--
Merschman Boston III	9-24	43.7	2.0	1.9	1.7	59.7*	53.3*	57.0*
Pioneer Variety 9442	9-23	42.7	1.3	2.3	1.7	59.4*	48.9	54.9*
Dekalb CX404	9-21	40.3	1.0	--	--	58.9*	--	--
NeCo 1300	9-24	49.3	2.0	2.5	2.0	58.6*	56.3*	57.5*
Corsica	9-23	40.0	2.0	--	--	58.6*	--	--
Stine 4390	10-03	36.0	1.7	--	--	58.4*	--	--
Merschman Atlanta II	9-27	47.7	2.0	3.7	2.3	58.1*	47.4	54.6
Dekalb CX415	9-23	47.3	2.0	3.0	2.0	57.9*	48.2	60.2*
Lewis 452	9-28	52.7	2.0	--	--	57.8*	--	--
MFA Morsoy 8944	9-28	49.3	2.0	3.6	--	57.7*	51.0*	--
Pioneer Variety 9461	9-24	40.3	1.3	2.5	2.0	57.5*	54.8*	58.2*
Northrup King S42-40	9-22	41.7	2.0	1.8	1.0	57.2*	55.1*	56.7*
JMS 4515	9-28	57.0	2.3	--	--	57.2*	--	--
Terra - TS 402	9-21	40.3	1.0	--	--	57.2*	--	--
Hamilton	9-22	37.3	1.7	1.5	2.0	56.8*	58.4*	54.4
AgriPro AP 4420	9-27	46.3	2.0	--	--	56.5*	--	--
NC+ 4A10	9-20	42.7	1.7	--	--	55.5*	--	--
Diamond SC400	9-21	42.3	1.0	1.7	1.0	55.4*	53.8*	60.1*
United AgriProducts 3450	9-26	57.0	2.3	--	--	55.1*	--	--
Masco Physter	9-23	45.7	2.3	--	--	55.0	--	--
Ray Carroll 4140	9-21	41.7	1.0	1.7	--	54.8	57.5*	--



TABLE 5. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	Golden Harvest H-1407	9-20	40.7	1.0	1.4	--	53.9	54.0*
Mity-Mo 46	9-19	44.0	1.0	--	--	53.8	--	--
Ciba Geigy G Brand 3411	9-21	40.3	1.0	1.7	--	53.7	59.0**	--
MFA Morsoy 8842	9-25	45.0	1.7	2.3	1.3	53.2	54.5*	57.4*
Lewis 409	9-20	41.3	1.0	1.2	--	53.1	54.9*	--
Asgrow A4715	10-01	46.7	2.0	--	--	52.5	--	--
Mity-Mo 40	9-22	46.7	1.7	--	--	52.5	--	--
Merschman Norfolk	9-22	39.7	1.0	1.5	--	52.4	55.2*	--
United AgriProducts 3405	9-21	48.3	1.0	--	--	52.4	--	--
Ray Carroll 4656	9-27	46.3	2.0	2.8	--	52.2	50.0	--
JMS 4409	9-25	45.7	2.3	3.9	--	51.9	51.3*	--
Ripley	9-28	28.3	1.0	1.0	1.0	50.7	43.5	56.6*
Northrup King S44-77	9-25	52.3	2.7	3.0	2.3	50.4	48.2	53.5
Pioneer Variety 9443	9-23	41.3	2.0	1.6	--	50.2	52.4*	--
Merschman Dallas	10-04	52.3	3.3	3.9	3.7	49.5	49.7	53.9
Northrup King S42-50	9-24	43.3	1.7	--	--	47.8	--	--
JMS 4109	9-23	43.3	1.3	2.8	--	47.7	49.4	--
MFA Morsoy 8947SCN	10-03	47.0	4.0	--	--	41.1	--	--
<u>EXPERIMENTAL VARIETIES</u>								
Merschman Dallas II	9-24	55.0	2.7	--	--	61.4*	--	--
Merschman Dallas 2	10-04	36.3	1.7	--	--	58.8*	--	--
ICI EX 24207	9-24	43.7	1.0	--	--	58.8*	--	--
S86-4499	10-01	47.3	2.7	3.6	1.3	50.4	50.9*	53.4
V81-141	9-28	44.3	2.0	--	--	47.4	--	--
Merschman Dallas Two	10-08	52.0	2.0	--	--	45.5	--	--
Dunn Exp.444	10-04	35.0	2.3	--	--	39.4	--	--
5.0 Maturity Group Check##	10-12							
AVERAGE	9-25	44.5	1.8	2.5	2.1	54.3	51.6	54.6
LSD (.05)	4	3.6	0.6	1.0	0.7	6.8	8.3	7.0
CV (%)	0.8	5.0				7.8	10.0	8.0
<hr/>								
TRIAL AVERAGE		42.1	1.5	1.9	1.7	53.8	50.0	53.2

-- 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 3.

TABLE 6. Performance of Soybean Varieties evaluated near McKittrick (Warren County) on the Terry Loehning Farm during 1991-92 and near Marthasville on the Jim Hellebusch Farm during 1990.

Planted: 5 May 1992  
 Harvested: 6,7 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Winfield Silt Loam  
 Soil Test: pH=5.9, OM=1.2%, P=58, K=387

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Dual + Canopy  
 Post: Galaxy, Poast  
 Irrigation: 0.00 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 0 eggs / 250cc of soil  
 Growing Season Rainfall: May=1.4, June=1.9, July=6.3, Aug.=2.1, Sept.=5.2, TOTAL=16.9"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 2</b>								
<u>COMMERCIAL VARIETIES</u>								
Reeds Brand 222	9-08	32.7	1.0	1.0	1.0	53.9**	32.3**	37.8
AVERAGE	9-08	32.7	1.0	1.0	1.0	53.9	32.3	40.6
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
3.0 Maturity Group Check##	9-07							
Charleston	9-12	25.7	1.0	--	--	63.5**	--	--
Masco Recyster	9-09	41.0	1.0	--	1.6	63.1*	--	49.3*
Golden Harvest H-1353	9-11	36.3	1.9	--	--	62.3*	--	--
Vigoro KE 371	9-13	33.3	1.4	--	--	62.2*	--	--
Pioneer Variety 9381	9-10	35.7	1.0	1.0	1.3	61.7*	39.9	47.0*
Terra - Torch	9-10	38.7	1.3	1.6	--	61.5*	41.3	--
AgriPro AP 3990	9-13	36.7	2.0	--	--	60.8*	--	--
Asgrow A3733	9-15	33.0	1.3	1.2	1.0	60.4*	47.4*	48.5*
Fontanelle 6100	9-10	38.3	1.7	--	--	60.4*	--	--
Kruger K3939	9-10	37.3	2.0	--	--	60.3*	--	--
Merschman Eisenhower II	9-12	39.3	2.7	1.6	1.7	59.9*	47.6*	45.1
Hyperformer HSC 355	9-08	35.0	1.0	--	--	59.9*	--	--
United AgriProducts 3301	9-10	38.7	1.0	--	--	59.8*	--	--
Kruger K3769+	9-07	37.3	1.7	--	--	59.8*	--	--
ICI D371	9-10	35.7	1.9	--	--	59.7*	--	--
Merschman Washington VI	9-15	39.7	1.3	1.4	1.0	59.5*	43.9*	49.6*
JMS 3609	9-10	39.0	1.7	2.2	--	59.4*	46.4*	--
Ciba Geigy G Brand 3362	9-12	37.0	1.3	--	--	58.7*	--	--
Kruger K4040	9-08	38.7	2.1	--	--	58.1*	--	--
MFA Morsoy 9137	9-12	37.7	1.7	--	--	58.1*	--	--
Merschman Kennedy IV	9-11	39.3	1.6	--	--	58.0*	--	--
Vigoro KE 392	9-11	40.0	2.1	--	--	57.3	--	--
Reeds Brand 390	9-12	36.7	1.9	1.5	--	57.2	44.7*	--
Stine 3390	9-13	36.3	2.0	--	--	57.1	--	--
Ray Carroll 938	9-10	39.3	1.7	1.5	--	57.1	49.1*	--
Lewis 388	9-08	38.0	1.3	2.6	1.7	56.9	49.8*	51.1*
NeCo 1051N	9-09	38.3	1.6	2.9	--	56.9	47.3*	--
Flyer	9-11	39.0	2.0	2.5	1.0	56.9	39.8	47.3*
NC+ 3A81	9-11	39.7	2.0	1.5	--	56.9	48.3*	--
JMS 3791	9-09	35.7	2.0	1.3	--	56.8	42.9	--
Pioneer Variety 9392	9-15	38.3	1.4	1.0	--	56.8	42.8	--
Edison	9-07	35.3	1.3	2.0	--	56.7	38.7	--
Reeds Brand 330	9-12	33.0	2.0	1.1	1.0	56.5	42.7	39.9
Willcross 92A	9-14	37.7	2.7	--	--	56.5	--	--
Hyperformer HSC 339	9-10	34.3	1.1	--	--	56.5	--	--
Merschman Truman III	9-12	35.0	1.7	1.3	1.0	56.4	47.8*	47.5*
Willcross 90	9-16	39.3	2.6	3.5	--	56.3	43.0	--
Dekalb CX366	9-09	42.3	2.0	1.9	2.0	56.3	40.5	45.0
Fontanelle 5621	9-11	40.0	2.3	--	--	56.1	--	--
Fontanelle 5999	9-14	38.7	1.6	1.6	1.0	55.9	49.2*	47.8*
Lewis 356	9-12	31.3	1.0	--	--	55.8	--	--
Dairyland DSR-331	9-10	31.7	1.0	--	--	55.7	--	--
Lewis 367	9-10	40.3	2.0	2.0	1.7	55.6	49.2*	46.0*

TABLE 6. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	United AgriProducts 3340 Terra - TS 312	9-07 9-09	38.7 35.7	1.3 1.7	2.7 --	-- --	55.3 55.2	44.1* --
Diamond D301 United AgriProducts 3371 Ray Carroll 3330 NeCo 7392 Dairyland DSR-317	9-13 9-13 9-12 9-15 9-11	44.0 30.3 40.0 37.7 40.0	2.7 1.3 1.6 2.4 2.3	-- -- -- 1.0 --	1.3 -- -- -- --	55.1 54.8 54.8 54.8 54.7	-- -- -- 40.4 --	46.7* -- -- -- --
Stine 3250 MFA Morsoy 9135SCN Merschman Coolidge JMS 3009 AgriPro AP 3800	9-08 9-10 9-13 9-09 9-10	39.7 41.0 37.3 37.0 37.0	2.0 1.6 1.1 1.3 2.0	-- -- -- -- 2.0	-- -- -- -- 1.0	54.6 54.5 54.4 54.3 54.1	-- -- -- -- 40.8	-- -- -- -- 40.3
Hyperformer HSC 398 Golden Harvest H-1308 Merschman Garfield Pioneer Variety 9391 Golden Harvest H-1355	9-19 9-11 9-11 9-13 9-10	36.7 36.7 40.0 40.3 43.0	2.0 1.4 1.7 2.6 2.4	-- 1.2 -- 2.4 2.1	-- 1.0 1.0 2.0 1.4	54.0 53.9 53.8 53.8 53.7	-- 37.6 -- 43.7* 41.4	-- 43.6 44.8 49.2* 42.7
Reeds Brand 333 Willcross 92B Merschman Roosevelt MFA Morsoy 9038 NeCo 1200	9-12 9-16 9-11 9-13 9-12	42.0 36.3 41.3 37.3 43.0	2.4 2.4 3.0 2.0 2.3	1.3 -- 1.1 -- 2.9	1.7 -- 1.3 -- 1.6	53.4 53.4 52.9 52.4 52.3	41.8 -- 43.1 -- 39.2	43.8 -- 47.4* -- 50.3*
MFA Morsoy 8838 Ciba Geigy G Brand 3388 Resnik Kunitz Williams 82	9-13 9-11 9-12 9-11 9-15	40.3 39.3 35.7 39.7 42.0	2.0 1.4 1.0 2.3 2.0	1.8 2.4 1.0 3.6 1.8	1.7 -- 1.0 -- --	52.0 50.5 50.3 50.1 49.9	48.0* 46.1* 38.3 39.2 40.1	43.6 -- 44.9 -- --
<b>EXPERIMENTAL VARIETIES</b>								
Willcross Exp 94A	9-14	39.0	2.0	--	--	60.1*	--	--
4.0 Maturity Group Check##	9-16							
AVERAGE	9-11	37.7	1.8	1.9	1.4	56.5	42.8	45.6
LSD (.05)	6	3.5	0.7	1.1	0.7	5.9	6.4	6.5
CV (%)	1.6	5.8				6.5	10.2	8.8
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
4.0 Maturity Group Check##	9-16							
Ray Carroll 4140 Pioneer Variety 9461 Dekalb CX404 JMS 4140 Diamond SC400	9-14 9-18 9-19 9-19 9-17	38.0 39.0 39.0 38.3 38.0	2.5 2.9 2.7 3.3 2.7	1.3 3.0 -- 2.0 2.0	-- 1.9 -- -- 1.0	71.3** 63.1 62.0 61.7 61.2	50.0** 41.7 -- 45.0* 46.4*	-- 51.3* -- -- 48.5*
Merschman Boston III Golden Harvest H-1407 Merschman Atlanta II MFA Morsoy 8842 Ripley	9-18 9-14 9-19 9-19 9-23	42.7 39.0 44.7 43.0 28.7	2.7 2.7 3.1 3.0 1.0	1.3 1.9 3.7 2.3 1.1	1.4 -- 2.3 1.3 1.1	60.9 60.8 60.6 60.2 60.0	48.6* 45.4* 38.8 37.6 35.7	49.6* -- 43.7 48.4* 45.0*
MFA Morsoy 8944 NeCo 1300 Corsica Masco Phyter Mity-Mo 46	9-22 9-21 9-19 9-19 9-13	44.3 45.3 39.3 43.7 40.0	3.7 3.3 2.1 3.3 2.0	4.7 2.5 -- -- --	-- 1.7 -- -- --	59.8 59.4 59.0 58.9 58.8	45.5* 41.1 -- -- --	-- 48.6* -- -- --
Merschman Dallas Northrup King S42-40 Lewis 409 Mity-Mo 40 NC+ 4A10	9-28 9-19 9-18 9-21 9-20	53.3 41.3 39.0 47.3 37.7	3.8 3.5 2.4 2.9 2.5	4.4 3.2 1.3 -- --	2.3 1.2 -- -- --	58.6 58.6 58.6 58.2 58.1	41.7 41.4 47.2* -- --	48.2* 42.4 -- -- --
Terra - TS 402 Lewis 452 AgriPro AP 4420	9-16 9-22 9-20	40.0 48.7 43.3	3.1 3.1 2.2	-- -- --	-- -- --	57.8 57.7 57.1	-- -- --	-- -- --

TABLE 6. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (in)	1992	1991	1990	1992	1991	1990
Merschman Norfolk	9-17	37.7	2.8	1.3	--	56.7	43.3*	--
Ciba Geigy G Brand 3411	9-18	39.0	2.2	1.7	--	56.7	47.1*	--
Hamilton	9-15	36.3	1.9	2.7	1.3	56.5	49.4*	43.2
Pioneer Variety 9443	9-19	39.0	2.5	1.4	--	56.4	45.3*	--
United AgriProducts 3450	9-19	52.3	2.5	--	--	56.1	--	--
JMS 4109	9-19	43.3	2.3	2.7	--	55.9	41.7	--
Merschman Austin	9-23	41.0	3.4	3.4	--	55.7	37.5	--
Pioneer Variety 9442	9-18	37.3	2.6	3.0	1.3	55.7	41.0	42.0
Dekalb CX415	9-17	46.7	2.7	3.1	2.0	54.7	39.8	43.2
Stine 4390	9-20	35.7	3.1	--	--	54.7	--	--
Northrup King S44-77	9-19	51.0	3.6	5.0	2.0	54.1	42.1	49.0*
JMS 4409	9-20	42.7	3.3	5.0	--	54.0	46.7*	--
Asgrow A4715	9-21	46.0	1.6	--	--	53.7	--	--
JMS 4515	9-23	48.0	3.0	--	--	53.5	--	--
United AgriProducts 3405	9-16	45.7	1.9	--	--	53.1	--	--
Ray Carroll 4656	9-21	42.7	3.5	3.0	--	52.6	33.4	--
Northrup King S42-50	9-22	39.0	2.1	--	--	50.8	--	--
MFA Morsoy 8947SCN	10-01	41.0	3.2	--	--	49.7	--	--
<b>EXPERIMENTAL VARIETIES</b>								
ICI EX 24207	9-17	38.7	1.6	--	--	59.1	--	--
Merschman Dallas 2	9-30	32.0	3.4	--	--	57.1	--	--
Merschman Dallas Two	10-03	50.3	2.9	--	--	53.9	--	--
Merschman Dallas II	9-23	43.7	3.3	--	--	51.9	--	--
V81-141	10-01	43.0	3.0	--	--	50.4	--	--
S86-4499	9-25	46.3	3.2	3.6	3.6	50.3	37.5	43.0
Dunn Exp.444	9-28	36.7	2.4	--	--	47.3	--	--
5.0 Maturity Group Check##	10-04							
AVERAGE	9-20	41.8	2.8	2.9	1.8	56.9	42.4	46.1
LSD (.05)	5	4.5	0.9	1.0	0.6	7.4	6.7	6.8
CV (%)	1.3	6.6				8.0	10.0	9.2
<b>TRIAL AVERAGE</b>		39.4	2.2	2.3	1.6	56.7	42.6	45.8

-- 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 3.

TABLE 7. Performance of Soybean Varieties evaluated at two Central Missouri locations (Miami and McKittrick) during 1992.

**Miami**  
 Planted: 13 May 1992  
 Harvested: 5 October 1992  
 Row Spacing: 30 inches  
 Planted Population: 156,800 seeds/A.  
 Soil Type: Leta Silt Loam  
 Previous Crop: Corn  
 SCN Population at Harvest: 0 eggs  
 Growing Season Moisture: 19.3<sup>#</sup>eggs

**McKittrick**  
 Planted: 5 May 1992  
 Harvested: 6,7 October 1992  
 Row Spacing: 30 inches  
 Planted Population: 156,800 seeds/A.  
 Soil Type: Winfield Silt Loam  
 Previous Crop: Corn  
 SCN Population at Harvest: 0 eggs  
 Growing Season Moisture: 16.9<sup>#</sup>eggs

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Miami	McKittrick	Mean	Miami	McKittrick	Mean
<b>MATURITY GROUP 2</b>						
<u>COMMERCIAL VARIETIES</u>						
Reeds Brand 222	1.0	1.0	1.0	53.6**	53.9**	53.8**
AVERAGE	1.0	1.0	1.0	53.6	53.9	53.8
<b>MATURITY GROUP 3</b>						
<u>COMMERCIAL VARIETIES</u>						
Golden Harvest H-1353	1.3	1.9	1.6	62.8**	62.3*	62.6**
Charleston	1.0	1.0	1.0	59.6*	63.5**	61.6*
ICI D371	2.0	1.9	2.0	60.5*	59.7*	60.1*
Ciba Geigy G Brand 3362	1.3	1.3	1.3	60.8*	58.7*	59.8*
Merschman Kennedy IV	2.0	1.6	1.8	61.3*	58.0*	59.6*
Kruger K3769+	1.3	1.7	1.5	58.5*	59.8*	59.2*
Terra - Torch	1.0	1.3	1.2	56.6	61.5*	59.0*
Kruger K3939	2.0	2.0	2.0	57.2*	60.3*	58.8*
Fontanelle 6100	1.0	1.7	1.4	55.9	60.4*	58.2*
Reeds Brand 330	1.3	2.0	1.6	59.2*	56.5	57.8*
Masco Recyster	1.0	1.0	1.0	52.0	63.1*	57.6
Pioneer Variety 9381	1.3	1.0	1.2	53.3	61.7*	57.5
AgriPro AP 3990	1.0	2.0	1.5	54.1	60.8*	57.4
JMS 3791	1.3	2.0	1.6	57.8*	56.8	57.3
Kruger K4040	1.0	2.1	1.6	56.4	58.1*	57.2
Vigoro KE 371	1.0	1.4	1.2	52.0	62.2*	57.1
Vigoro KE 392	2.0	2.1	2.0	56.8	57.3	57.0
Merschman Eisenhower II	2.0	2.7	2.4	53.3	59.9*	56.6
Hyperformer HSC 355	1.0	1.0	1.0	52.6	59.9*	56.2
Lewis 367	2.0	2.0	2.0	56.2	55.6	55.9
Stine 3390	1.0	2.0	1.5	54.6	57.1	55.8
JMS 3609	1.7	1.7	1.7	52.0	59.4*	55.7
Asgrow A3733	1.0	1.3	1.2	50.7	60.4*	55.6
Dairyland DSR-331	1.0	1.0	1.0	55.3	55.7	55.5
Willcross 90	2.0	2.6	2.3	54.5	56.3	55.4
MFA Morsoy 9137	1.7	1.7	1.7	52.6	58.1*	55.4
Lewis 388	1.0	1.3	1.2	53.5	56.9	55.2
Willcross 92A	1.3	2.7	2.0	54.0	56.5	55.2
NC+ 3A81	1.3	2.0	1.6	53.5	56.9	55.2
Reeds Brand 390	1.3	1.9	1.6	52.8	57.2	55.0
NeCo 1051N	1.0	1.6	1.3	53.2	56.9	55.0
Fontanelle 5999	1.0	1.6	1.3	53.8	55.9	54.8
Pioneer Variety 9391	2.0	2.6	2.3	55.8	53.8	54.8
Stine 3250	1.0	2.0	1.5	54.7	54.6	54.6
Pioneer Variety 9392	1.0	1.4	1.2	52.4	56.8	54.6
Dekalb CX366	1.7	2.0	1.8	52.8	56.3	54.6
United AgriProducts 3371	1.0	1.3	1.2	54.4	54.8	54.6
Edison	1.0	1.3	1.2	52.3	56.7	54.5
Terra - TS 312	1.7	1.7	1.7	53.6	55.2	54.4
NeCo 1200	1.3	2.3	1.8	56.3	52.3	54.3
Flyer	1.0	2.0	1.5	51.5	56.9	54.2
AgriPro AP 3800	1.7	2.0	1.8	54.1	54.1	54.1
Merschman Washington VI	1.3	1.3	1.3	48.4	59.5*	54.0
Hyperformer HSC 339	1.0	1.1	1.0	51.6	56.5	54.0
Reeds Brand 333	1.3	2.4	1.8	54.3	53.4	53.8

TABLE 7. Continued.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Miami	McKittrick	Mean	Miami	McKittrick	Mean
Fontanelle 5621	1.7	2.3	2.0	51.5	56.1	53.8
Diamond D301	2.0	2.7	2.4	52.4	55.1	53.8
Merschman Truman III	1.3	1.7	1.5	50.8	56.4	53.6
United AgriProducts 3301	1.0	1.0	1.0	47.2	59.8*	53.5
Dairyland DSR-317	2.0	2.3	2.2	52.2	54.7	53.4
NeCo 7392	1.3	2.4	1.8	51.7	54.8	53.2
Merschman Roosevelt	2.0	3.0	2.5	53.4	52.9	53.2
Willcross 92B	1.0	2.4	1.7	52.9	53.4	53.2
Lewis 356	1.0	1.0	1.0	50.4	55.8	53.1
United AgriProducts 3340	1.0	1.3	1.2	50.7	55.3	53.0
MFA Morsoy 9135SCN	1.0	1.6	1.3	51.4	54.5	53.0
Golden Harvest H-1355	1.7	2.4	2.0	52.4	53.7	53.0
Ray Carroll 938	1.0	1.7	1.4	48.7	57.1	52.9
Golden Harvest H-1308	2.0	1.4	1.7	51.8	53.9	52.8
Merschman Coolidge	1.0	1.1	1.0	50.7	54.4	52.6
Ray Carroll 3330	1.3	1.6	1.4	50.0	54.8	52.4
Hyperformer HSC 398	1.0	2.0	1.5	50.1	54.0	52.0
Merschman Garfield	1.3	1.7	1.5	50.2	53.8	52.0
MFA Morsoy 8838	2.0	2.0	2.0	51.8	52.0	51.9
Kunitz	2.0	2.3	2.2	53.0	50.1	51.6
Williams 82	2.0	2.0	2.0	52.9	49.9	51.4
JMS 3009	1.0	1.3	1.2	47.6	54.3	51.0
Ciba Geigy G Brand 3388	1.0	1.4	1.2	51.3	50.5	50.9
MFA Morsoy 9038	2.0	2.0	2.0	47.4	52.4	49.9
Resnik	1.0	1.0	1.0	44.9	50.3	47.6
<u>EXPERIMENTAL VARIETIES</u>						
Willcross Exp 94A	1.0	2.0	1.5	50.7	60.1*	55.4
AVERAGE	1.4	1.8	1.6	53.4	56.5	54.9
LSD (.05)	0.5	0.7	0.4	5.9	5.9	4.8
CV (%)				6.8	6.5	7.8
<u>MATURITY GROUP 4</u>						
<u>COMMERCIAL VARIETIES</u>						
Ray Carroll 4140	1.0	2.5	1.8	54.8	71.3**	63.0**
JMS 4140	1.3	3.3	2.3	61.9**	61.7	61.8*
Dekalb CX404	1.0	2.7	1.8	58.9*	62.0	60.4*
Merschman Boston III	2.0	2.7	2.4	59.7*	60.9	60.3*
Pioneer Variety 9461	1.3	2.9	2.1	57.5*	63.1	60.3*
Merschman Atlanta II	2.0	3.1	2.6	58.1*	60.6	59.4*
NeCo 1300	2.0	3.3	2.6	58.6*	59.4	59.0*
MFA Morsoy 8944	2.0	3.7	2.8	57.7*	59.8	58.8*
Corsica	2.0	2.1	2.0	58.6*	59.0	58.8*
Diamond SC400	1.0	2.7	1.8	55.4*	61.2	58.3*
Northrup King S42-40	2.0	3.5	2.8	57.2*	58.6	57.9*
Merschman Austin	2.0	3.4	2.7	60.1*	55.7	57.9*
Lewis 452	2.0	3.1	2.6	57.8*	57.7	57.8
Pioneer Variety 9442	1.3	2.6	2.0	59.4*	55.7	57.6
Terra - TS 402	1.0	3.1	2.0	57.2*	57.8	57.5
Golden Harvest H-1407	1.0	2.7	1.8	53.9	60.8	57.4
Masco Phyter	2.3	3.3	2.8	55.0	58.9	57.0
NC + 4A10	1.7	2.5	2.1	55.5*	58.1	56.8
AgriPro AP 4420	2.0	2.2	2.1	56.5*	57.1	56.8
MFA Morsoy 8842	1.7	3.0	2.4	53.2	60.2	56.7
Stine 4390	1.7	3.1	2.4	58.4*	54.7	56.6
Hamilton	1.7	1.9	1.8	56.8*	56.5	56.6
Mity-Mo 46	1.0	2.0	1.5	53.8	58.8	56.3
Dekalb CX415	2.0	2.7	2.4	57.9*	54.7	56.3
Lewis 409	1.0	2.4	1.7	53.1	58.6	55.8
United AgriProducts 3450	2.3	2.5	2.4	55.1*	56.1	55.6
JMS 4515	2.3	3.0	2.6	57.2*	53.5	55.4
Ripley	1.0	1.0	1.0	50.7	60.0	55.4
Mity-Mo 40	1.7	2.9	2.3	52.5	58.2	55.4
Ciba Geigy G Brand 3411	1.0	2.2	1.6	53.7	56.7	55.2

TABLE 7. Continued.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Miami	McKittrick	Mean	Miami	McKittrick	Mean
Merschman Norfolk	1.0	2.8	1.9	52.4	56.7	54.6
Merschman Dallas	3.3	3.8	3.6	49.5	58.6	54.0
Pioneer Variety 9443	2.0	2.5	2.2	50.2	56.4	53.3
Asgrow A4715	2.0	1.6	1.8	52.5	53.7	53.1
JMS 4409	2.3	3.3	2.8	51.9	54.0	53.0
United AgriProducts 3405	1.0	1.9	1.4	52.4	53.1	52.8
Ray Carroll 4656	2.0	3.5	2.8	52.2	52.6	52.4
Northrup King S44-77	2.7	3.6	3.2	50.4	54.1	52.2
JMS 4109	1.3	2.3	1.8	47.7	55.9	51.8
Northrup King S42-50	1.7	2.1	1.9	47.8	50.8	49.3
MFA Morsoy 8947SCN	4.0	3.2	3.6	41.1	49.7	45.4
<u>EXPERIMENTAL VARIETIES</u>						
ICI EX 24207	1.0	1.6	1.3	58.8*	59.1	59.0*
Merschman Dallas 2	1.7	3.4	2.6	58.8*	57.1	58.0*
Merschman Dallas II	2.7	3.3	3.0	61.4*	51.9	56.6
S86-4499	2.7	3.2	3.0	50.4	50.3	50.4
Merschman Dallas Two	2.0	2.9	2.4	45.5	53.9	49.7
V81-141	2.0	3.0	2.5	47.4	50.4	48.9
Dunn Exp.444	2.3	2.4	2.4	39.4	47.3	43.4
AVERAGE	1.8	2.8	2.3	54.3	56.9	55.6
LSD (.05)	0.6	0.9	0.5	6.8	7.4	5.1
CV (%)				7.8	8.0	8.0
TRIAL AVERAGE	1.6	2.2	1.9	53.8	56.7	55.2

\*\* Highest Yielding Hybrid in the test.

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

TABLE 8. Performance of Soybean Varieties evaluated near Nevada (Vernon County) on the Gilbert Wilson Farm during 1990-92.

Planted: 19 May 1992  
 Harvested: 24 Sept. 13 Oct. 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Parsons Silt Loam  
 Soil Test: pH=5.3, OM=3.0%, P=49, K=323

Fertilizer: N=20; P<sub>2</sub>O<sub>5</sub>=35; K<sub>2</sub>O=60  
 Herbicide: Pre: Dual + Canopy  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Grain Sorghum

Cyst Nematode Population at Harvest: 0 eggs / 250cc of soil  
 Growing Season Rainfall: May=1.8, June=7.6, July=13.8, Aug.=1.9, Sept.=7.2, TOTAL=32.3"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)						
			1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
Pioneer Variety 9381	9-13	34.3	1.0	1.0	1.0	57.7**	11.0	26.4
Golden Harvest H-1353	9-14	35.3	1.3	--	--	57.5*	--	--
Terra - Torch	9-13	34.6	1.0	1.0	--	57.1*	18.1**	--
Pioneer Variety 9392	9-14	35.5	1.0	1.0	--	56.8*	16.6*	--
Charleston	9-11	23.2	1.0	--	--	56.5*	--	--
Reeds 390	9-15	35.6	1.0	1.0	--	56.3*	14.7*	--
Willcross 92A	9-15	37.5	1.3	--	--	55.4*	--	--
Flyer	9-15	37.5	1.0	1.0	--	55.0*	10.6	--
Willcross 90	9-14	40.1	2.0	1.0	--	54.1*	10.0	--
Pioneer Variety 9391	9-14	38.5	1.7	1.0	1.0	53.3*	14.2	30.6*
Willcross 92B	9-15	34.3	1.0	--	--	53.1*	--	--
Golden Harvest H-1355	9-15	43.7	2.0	1.0	1.0	52.9*	11.8	26.5
Edison	9-13	32.5	1.0	--	--	51.8	--	--
Merschman Roosevelt	9-14	36.8	1.7	1.0	1.0	50.9	14.4	26.7
Kuntiz	9-13	40.6	1.7	1.0	--	49.1	8.1	--
4.0 Maturity Group Check##	9-16							
AVERAGE	9-14	36.0	1.3	1.0	1.0	54.5	12.5	26.9
LSD (.05)	2	3.1	0.7	NS	NS	5.4	3.4	4.7
CV (%)	0.4	5.1				5.9	16.6	10.5
<b>MATURITY GROUP 4</b>								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-16							
Golden Harvest H-1407	9-15	35.3	1.0	1.0	--	56.6**	15.4	--
Jacques J-467	9-25	42.3	3.0	--	--	56.1*	--	--
Stine 4390	9-24	32.0	1.3	--	--	55.8*	--	--
NC+ 4A10	9-15	34.0	1.7	--	--	55.7*	--	--
Dekalb CX415	9-16	43.7	1.0	1.0	1.0	55.2*	17.1	28.2*
NC+ 4A46	9-18	42.7	2.0	--	--	54.0*	--	--
MFA Morsoy 8842	9-18	37.7	1.7	1.0	1.0	53.9*	21.5*	32.0*
Dekalb CX404	9-16	35.3	1.0	--	--	53.2*	--	--
Terra - TS 402	9-14	35.0	1.0	--	--	52.8*	--	--
Stine 4350	9-21	43.0	2.0	--	--	52.6*	--	--
Pioneer Variety 9443	9-18	36.7	1.3	1.0	--	52.6*	22.1*	--
NeCo 1300	9-20	39.7	1.7	1.0	1.0	52.1*	22.6*	29.8*
Dekalb CX458	9-19	40.0	2.0	1.0	1.0	51.9*	17.0	29.7*
Merschman Dallas	9-26	44.7	3.3	1.0	1.0	51.7*	20.7*	29.1*
Corsica	9-14	36.7	1.0	1.0	--	51.4*	20.3*	--
Hamilton	9-14	36.0	1.0	1.0	--	51.2	21.9*	--
Northrup King S42-50	9-15	37.7	1.0	1.0	1.0	50.9	23.2*	26.7
MFA Morsoy 8944	9-22	40.0	2.0	1.0	--	50.3	14.8	--
Pioneer Variety 9461	9-19	34.7	1.3	1.0	1.0	50.0	22.3*	28.0*
Northrup King S44-77	9-16	48.0	2.7	--	--	49.1	--	--
Asgrow A4595	9-20	41.7	1.3	1.0	1.0	48.4	21.6*	29.1*
Merschman Austin	9-23	42.7	3.3	1.0	--	48.0	17.0	--
Merschman Atlanta II	9-22	38.3	2.0	1.0	1.0	48.0	18.8*	25.3
Lewis 452	9-22	48.0	1.7	--	--	47.8	--	--
Pioneer Variety 9442	9-16	35.3	1.0	1.0	1.0	47.4	22.5*	27.8*
Jacques J-445	9-17	41.0	1.0	--	--	46.7	--	--



TABLE 8. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
Crawford	9-26	43.0	2.3	1.0	1.0	46.6	17.1	23.6
<u>EXPERIMENTAL VARIETIES</u>								
S86-4499	9-25	38.7	2.3	1.0	1.0	53.7*	15.2	28.2*
V81-141	9-24	38.3	2.3	--	--	45.9	--	--
5.0 Maturity Group Check##	10-01							
AVERAGE	9-19	39.4	1.7	1.0	1.0	51.4	19.7	27.9
LSD (.05)	3	5.4	0.9	0.5	0.2	5.3	6.3	5.0
CV (%)	0.7	8.3				6.3	19.7	11.1
MATURITY GROUP 5								
<u>COMMERCIAL VARIETIES</u>								
5.0 Maturity Group Check##	10-01							
MFA Morsoy 9050	10-02	36.3	1.7	--	--	59.5**	--	--
MFA Morsoy 9152	10-08	36.3	1.3	--	--	58.0*	--	--
Pioneer Variety 9521	10-01	40.7	1.0	1.0	--	52.4	19.9*	--
Asgrow A5403	10-06	37.3	1.0	--	1.0	52.0	--	25.8*
Hutcheson	10-10	36.0	1.3	1.0	1.0	50.1	24.8**	26.3*
Merschman Rushmore	10-07	37.3	1.0	--	--	49.9	--	--
MFA Morsoy 8951	10-04	36.7	1.0	1.0	1.0	49.5	21.2*	24.4
Essex	10-04	32.7	1.0	1.0	1.0	48.4	20.4*	22.9
NC+ 5H61	10-08	41.7	1.3	--	--	46.8	--	--
6.0 Maturity Group Check##	10-13							
AVERAGE	10-07	37.2	1.2	1.1	1.2	51.8	18.6	23.5
LSD (.05)	3	4.4	NS	0.5	0.4	7.0	5.0	5.6
CV (%)	0.5	6.5				7.4	16.3	13.8
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TRIAL AVERAGE		38.1	1.5	1.0	1.0	52.3	17.0	26.7

-- 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 3.  
 NS Not significant at the .05 level.

TABLE 9. Performance of Soybean Varieties evaluated near Lamar (Barton County) on the Wally Norton Farm during 1990-92.

Planted: 8 May 1992  
 Harvested: 24 Sept., 12 Oct. 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Parsons Silt Loam  
 Soil Test: pH=6.6, OM=1.2%, P=63, K=247

Fertilizer: N=60; P<sub>2</sub>O<sub>5</sub>=30; K<sub>2</sub>O=60  
 Herbicide: Pre: Dual + Canopy  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Lespedeza

Cyst Nematode Population at Harvest: 540 eggs / 250cc of soil  
 Growing Season Rainfall: May=5.4, June=4.5, July=18.3, Aug.=1.8, Sept.=9.2, TOTAL=39.2"

Brand-Variety	1992			Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)				1992	1991	1990	
			1992	1991	1990				
<b>MATURITY GROUP 3</b>									
<b>COMMERCIAL VARIETIES</b>									
Willcross 92B	9-09	28.7	1.0	--	--	52.8**	--	--	
Terra - Torch	9-07	28.8	1.0	1.0	--	49.1*	13.5	--	
Pioneer Variety 9391	9-10	29.0	1.0	1.0	1.0	48.7*	19.4*	29.5*	
Kuntiz	9-07	27.7	1.3	1.0	--	45.9*	17.8*	--	
Golden Harvest H-1353	9-08	31.6	1.3	--	--	45.1*	--	--	
Willcross 92A	9-10	30.3	1.0	--	--	45.1*	--	--	
Merschman Roosevelt	9-04	28.4	1.0	1.0	1.0	44.6	16.1	30.7*	
Pioneer Variety 9381	9-05	24.6	1.0	1.0	1.0	42.2	15.8	28.6*	
Edison	9-05	29.0	1.0	--	--	42.1	--	--	
Willcross 90	9-11	30.3	1.0	1.0	--	42.0	19.6*	--	
Reeds 390	9-07	26.7	1.0	1.0	--	40.3	23.2**	--	
Pioneer Variety 9392	9-08	28.1	1.0	1.0	--	38.8	20.6*	--	
Golden Harvest H-1355	9-06	34.4	1.0	1.0	1.0	38.5	21.0*	26.7	
Flyer	9-09	28.1	1.0	1.0	--	35.1	16.6	--	
Charleston	9-02	13.5	1.0	--	--	28.1	--	--	
4.0 Maturity Group Check##	9-14								
AVERAGE	9-07	27.9	1.0	1.0	1.0	42.6	17.7	27.3	
LSD (.05)	3	4.1	0.4	NS	NS	8.0	5.9	3.9	
CV (%)	0.8	8.6				11.2	20.3	8.6	
<b>MATURITY GROUP 4</b>									
<b>COMMERCIAL VARIETIES</b>									
4.0 Maturity Group Check##	9-14								
Asgrow A4595	9-14	31.3	1.2	1.0	1.0	49.4**	21.5*	20.8	
Merschman Dallas	9-17	43.1	2.1	1.0	1.0	49.3*	19.1*	21.0	
Crawford	9-19	40.4	4.6	1.0	1.0	48.1*	22.5**	17.5	
Northrup King S44-77	9-14	35.6	1.7	--	--	45.8*	--	--	
Corsica	9-05	29.0	1.1	1.0	--	45.2*	9.2	--	
MFA Morsoy 8944	9-17	32.6	1.2	1.0	--	45.2*	15.1	--	
NC+ 4A10	9-09	28.7	1.0	--	--	45.2*	--	--	
MFA Morsoy 8842	9-13	34.3	1.0	1.0	1.0	44.5*	15.9	21.4	
Merschman Atlanta II	9-15	30.6	1.3	1.0	1.0	44.3*	13.2	18.7	
NeCo 1300	9-16	33.8	1.1	1.0	1.0	43.9*	17.9*	21.7	
Northrup King S42-50	9-11	34.8	1.3	1.0	1.0	43.6*	11.1	27.6**	
Pioneer Variety 9461	9-15	29.3	1.4	1.0	1.0	42.9*	10.9	16.2	
Hamilton	9-05	29.9	1.0	1.0	--	42.4*	17.0	--	
Dekalb CX415	9-12	33.3	1.0	1.0	1.0	41.3*	15.6	20.6	
Dekalb CX404	9-10	29.0	1.0	--	--	41.3*	--	--	
NC+ 4A46	9-15	31.2	1.1	--	--	41.0	--	--	
Jacques J-467	9-15	35.7	1.7	--	--	41.0	--	--	
Dekalb CX458	9-15	31.1	1.0	1.0	1.0	40.6	18.4*	20.3	
Merschman Austin	9-17	34.0	1.8	1.0	--	40.3	15.6	--	
Pioneer Variety 9442	9-14	29.9	1.3	1.0	1.0	40.1	15.3	18.6	
Stine 4350	9-15	37.2	2.1	--	--	40.0	--	--	
Terra - TS 402	9-09	30.2	1.0	--	--	39.4	--	--	
Pioneer Variety 9443	9-14	29.9	1.0	1.0	--	39.2	12.0	--	
Lewis 452	9-15	42.9	2.3	--	--	39.1	--	--	
Golden Harvest H-1407	9-09	27.9	1.0	1.0	--	37.7	12.1	--	
Stine 4390	9-12	21.7	1.0	--	--	34.3	--	--	

TABLE 9. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
Jacques J-445	9-15	33.9	1.0	--	--	33.6	--	--
<u>EXPERIMENTAL VARIETIES</u>								
S86-4499	9-16	38.8	2.3	1.0	1.0	41.6*	21.2*	23.1
V81-141	9-19	32.6	2.3	--	--	36.7	--	--
5.0 Maturity Group Check##	9-25							
AVERAGE	9-14	32.9	1.5	1.0	1.0	42.0	15.7	20.2
LSD (.05)	3	4.2	0.6	0.2	NS	8.1	4.6	4.2
CV (%)	0.7	7.8				11.6	17.1	12.9
MATURITY GROUP 5								
<u>COMMERCIAL VARIETIES</u>								
5.0 Maturity Group Check##	9-25							
Asgrow A5403	10-03	32.7	1.7	--	1.0	54.7**	--	32.5
Merschman Rushmore	10-01	31.7	1.7	--	--	51.5*	--	--
MFA Morsoy 9152	10-03	29.7	1.0	--	--	50.4*	--	--
Pioneer Variety 9521	9-30	32.7	2.0	1.0	--	48.8*	19.3	--
MFA Morsoy 8951	10-01	26.3	2.3	1.0	1.0	48.4*	18.7	30.5
NC+ 5H61	10-05	39.3	1.7	--	--	46.2	--	--
MFA Morsoy 9050	10-05	29.0	2.3	--	--	45.4	--	--
Hutcheson	10-03	27.7	1.7	1.0	1.0	43.6	22.0*	38.2**
Essex	10-01	27.7	1.3	1.0	1.0	40.0	13.9	27.5
6.0 Maturity Group Check##	10-06							
AVERAGE	10-02	30.8	1.7	1.0	1.1	47.7	18.4	30.8
LSD (.05)	1	5.9	0.9	0.2	0.2	6.7	4.4	4.2
CV (%)	0.2	11.1				8.1	14.0	8.2
<hr/>								
TRIAL AVERAGE		31.1	1.4	1.0	1.0	43.1	16.8	24.6

-- 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 3.

NS Not significant at the .05 level.

TABLE 10. Performance of Soybean Varieties evaluated at two Southwest Missouri locations (Nevada and Lamar) during 1992.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Nevada	Lamar	Mean	Nevada	Lamar	Mean
<b>MATURITY GROUP 3</b>						
<u>COMMERCIAL VARIETIES</u>						
Terra - Torch	1.0	1.0	1.0	57.1*	49.1*	53.1**
Willcross 92B	1.0	1.0	1.0	53.1*	52.8**	53.0*
Golden Harvest H-1353	1.3	1.3	1.3	57.5*	45.1*	51.3*
Pioneer Variety 9391	1.7	1.0	1.4	53.3*	48.7**	51.0*
Willcross 92A	1.3	1.0	1.2	55.4*	45.1*	50.2*
Pioneer Variety 9381	1.0	1.0	1.0	57.7**	42.2	50.0*
Reeds 390	1.0	1.0	1.0	56.3*	40.3	48.3
Willcross 90	2.0	1.0	1.5	54.1*	42.0	48.0
Merschman Roosevelt	1.7	1.0	1.4	50.9	44.6	47.8
Pioneer Variety 9392	1.0	1.0	1.0	56.8*	38.8	47.8
Kuntiz	1.7	1.3	1.5	49.1	45.9*	47.5
Edison	1.0	1.0	1.0	51.8	42.1	47.0
Golden Harvest H-1355	2.0	1.0	1.5	52.9*	38.5	45.7
Flyer	1.0	1.0	1.0	55.0*	35.1	45.0
Charleston	1.0	1.0	1.0	56.5*	28.1	42.3
AVERAGE	1.3	1.0	1.2	54.5	42.6	48.5
LSD (.05)	0.7	0.4	0.4	5.4	8.0	4.7
CV (%)				5.9	11.2	8.5
<b>MATURITY GROUP 4</b>						
<u>COMMERCIAL VARIETIES</u>						
Merschman Dallas	3.3	2.1	2.7	51.7*	49.3*	50.5**
NC+ 4A10	1.7	1.0	1.4	55.7*	45.2*	50.4*
MFA Morsoy 8842	1.7	1.0	1.4	53.9*	44.5*	49.2*
Asgrow A4595	1.3	1.2	1.2	48.4	49.4**	48.9*
Jacques J-467	3.0	1.7	2.4	56.1*	41.0	48.6*
Corsica	1.0	1.1	1.0	51.4*	45.2*	48.3*
Dekalb CX415	1.0	1.0	1.0	55.2*	41.3*	48.2*
NeCo 1300	1.7	1.1	1.4	52.1*	43.9*	48.0*
MFA Morsoy 8944	2.0	1.2	1.6	50.3	45.2*	47.8*
NC+ 4A46	2.0	1.1	1.6	54.0*	41.0	47.5*
Crawford	2.3	4.6	3.4	46.6	48.1*	47.4*
Northrup King S44-77	2.7	1.7	2.2	49.1	45.8*	47.4*
Dekalb CX404	1.0	1.0	1.0	53.2*	41.3*	47.2*
Northrup King S42-50	1.0	1.3	1.2	50.9	43.6*	47.2*
Golden Harvest H-1407	1.0	1.0	1.0	56.6**	37.7	47.2*
Hamilton	1.0	1.0	1.0	51.2	42.4*	46.8*
Pioneer Variety 9461	1.3	1.4	1.4	50.0	42.9*	46.4*
Stine 4350	2.0	2.1	2.0	52.6*	40.0	46.3*
Merschman Atlanta II	2.0	1.3	1.6	48.0	44.3*	46.2*
Dekalb CX458	2.0	1.0	1.5	51.9*	40.6	46.2*
Terra - TS 402	1.0	1.0	1.0	52.8*	39.4	46.1*
Pioneer Variety 9443	1.3	1.0	1.2	52.6*	39.2	45.9*
Stine 4390	1.3	1.0	1.2	55.8*	34.3	45.0
Merschman Austin	3.3	1.8	2.6	48.0	40.3	44.2
Pioneer Variety 9442	1.0	1.3	1.2	47.4	40.1	43.8
Lewis 452	1.7	2.3	2.0	47.8	39.1	43.4
Jacques J-445	1.0	1.0	1.0	46.7	33.6	40.2

TABLE 10. Continued.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Nevada	Lamar	Mean	Nevada	Lamar	Mean
<b>EXPERIMENTAL VARIETIES</b>						
S86-4499	2.3	2.3	2.3	53.7*	41.6*	47.6*
V81-141	2.3	2.3	2.3	45.9	36.7	41.3
AVERAGE	1.7	1.5	1.6	51.4	42.0	46.7
LSD (.05)	0.9	0.6	0.6	5.3	8.1	5.1
CV (%)				6.3	11.6	9.6
<b>MATURITY GROUP 5</b>						
<b>COMMERCIAL VARIETIES</b>						
MFA Morsoy 9152	1.3	1.0	1.2	58.0*	50.4*	54.2**
Asgrow A5403	1.0	1.7	1.4	52.0	54.7**	53.4*
MFA Morsoy 9050	1.7	2.3	2.0	59.5**	45.4	52.4*
Merschman Rushmore	1.0	1.7	1.4	49.9	51.5*	50.7*
Pioneer Variety 9521	1.0	2.0	1.5	52.4	48.8*	50.6*
MFA Morsoy 8951	1.0	2.3	1.6	49.5	48.4*	49.0
Hutcheson	1.3	1.7	1.5	50.1	43.6	46.8
NC+ 5H61	1.3	1.7	1.5	46.8	46.2	46.5
Essex	1.0	1.3	1.2	48.4	40.0	44.2
AVERAGE	1.2	1.7	1.5	51.8	47.7	49.8
LSD (.05)	NS	0.9	0.5	7.0	6.7	4.7
CV (%)				7.4	8.1	8.4
<b>TRIAL AVERAGE</b>	<b>1.5</b>	<b>1.4</b>	<b>1.5</b>	<b>52.3</b>	<b>43.1</b>	<b>47.7</b>

\*\* 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 1990-92.

Planted: 13 May 1992  
 Harvested: 29 September 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Commerce Silt Loam  
 Soil Test: pH=6.3, OM=1.1%, P=88, K=251

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=40; K<sub>2</sub>O=80  
 Herbicide: Pre: Squadron  
 Post: Basagran  
 Irrigation: 2.4 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 28,600 eggs / 250cc of soil  
 Growing Season Rainfall: May=2.1, June=3.7, July=5.9, Aug.=4.2, Sept.=4.7, TOTAL=20.6"

Brand-Variety	1992							
	Maturity Date	Plant Height (In)	Lodging Score (1-5)			Yield (Bu/Acre)		
			1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 4</b>								
<u>COMMERCIAL VARIETIES</u>								
Asgrow A4715	9-16	36.0	1.5	--	--	62.3*	--	--
Dekalb CX458	9-10	33.3	1.7	1.3	1.0	59.7	48.1	35.1*
Pioneer Variety 9442	9-09	31.0	1.3	--	--	58.1	--	--
Hartz Variety H4464	9-20	45.0	5.0	2.3	2.9	57.6	33.9	31.8
Biodelt 2146	9-17	33.3	2.5	1.4	--	56.2	53.1*	--
Deltapine DP 3456	9-17	31.7	1.8	1.3	2.1	55.7	58.2*	32.5
Stoneville/FFR 464	9-11	36.0	2.3	1.7	1.0	55.6	52.8*	35.2*
JMS 4409	9-09	32.7	1.5	--	--	55.2	--	--
United AgriProducts 3405	9-04	35.7	1.5	--	--	54.9	--	--
AgraTech AT 495	9-17	31.0	3.0	2.0	2.7	54.0	52.8*	31.5
United AgriProducts 3450	9-12	42.7	2.7	--	--	53.9	--	--
Pioneer Variety 9443	9-08	33.0	1.5	2.0	--	53.0	51.7*	--
AgraTech AT 455	9-13	35.3	1.8	--	--	52.9	--	--
Jader J461	9-17	36.3	2.3	--	--	52.6	--	--
Dekalb CX415	9-07	35.0	1.7	2.3	1.4	52.1	58.1*	33.5*
Jader J4881	9-17	28.7	2.5	--	--	50.8	--	--
Hartz Variety H4242	9-20	27.7	2.8	--	--	50.4	--	--
JMS 4909	9-16	33.0	2.3	2.3	--	50.4	42.0	--
Hamilton	9-02	27.3	1.5	2.0	--	49.3	49.0	--
JMS 4809	9-16	28.3	3.3	--	--	49.1	--	--
Jader J467	9-15	40.3	3.0	--	--	47.3	--	--
Corsica	9-03	31.7	1.5	1.7	--	44.9	52.4*	--
<u>EXPERIMENTAL VARIETIES</u>								
Deltapine DPX 3478	9-20	36.3	2.5	--	--	67.3**	--	--
Deltapine DPX 3448	9-15	34.7	1.8	--	--	59.2	--	--
S86-4499	9-17	38.3	4.0	2.3	2.9	56.3	51.6*	36.6*
Northrup King X9146	9-09	38.7	2.0	--	--	53.8	--	--
Deltapine DPX 3480	9-16	34.3	2.2	--	--	52.2	--	--
United AgriProducts X75	9-09	29.3	1.2	--	--	51.9	--	--
Deltapine DPX 3488	9-15	34.7	1.8	--	--	50.1	--	--
Dunn Exp.444	9-16	25.3	3.8	--	--	41.0	--	--
5.0 Maturity Group Check##	9-28							
AVERAGE	9-13	33.9	2.3	2.0	2.1	53.6	48.0	35.0
LSD (.05)	3	4.0	0.8	0.8	1.5	5.8	11.9	7.7
CV (%)	0.6	7.2				6.6	15.6	13.6
<b>MATURITY GROUP 5</b>								
<u>COMMERCIAL VARIETIES</u>								
5.0 Maturity Group Check##	9-28							
MFA Morsoy 9152	9-30	28.3	1.7	--	--	61.6**	--	--
Pioneer Variety 9584	10-04	34.3	1.5	--	--	61.5*	--	--
Asgrow A5560	9-30	27.3	1.5	--	--	61.2*	--	--
AgraTech AT 2520	9-30	33.3	2.5	--	--	61.0*	--	--
Pioneer Variety 9592	10-05	35.7	3.0	3.0	2.1	60.5*	43.1*	50.5*
Stoneville/FFR 561	10-08	36.0	1.5	2.1	1.3	60.2*	40.8	46.6
Pioneer Variety 9551	9-27	30.7	1.3	2.0	--	59.8*	42.3	--
Northrup King S59-60	10-07	33.0	2.8	4.7	2.0	59.6*	42.0	48.6*
MFA Morsoy 9050	10-06	31.7	2.5	--	--	59.0*	--	--
Hartz Variety H5566	10-02	36.0	3.3	3.0	2.4	58.9*	36.7	49.7*

TABLE 11. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (in)	1992	1991	1990	1992	1991	1990
	Triumph 552	10-04	30.0	3.0	2.4	--	58.8*	40.6
Deltapine Deltapine 415	10-02	35.7	2.7	2.1	1.7	58.5*	36.7	50.2*
Hartz Variety H5810	10-06	33.3	2.2	--	--	57.6*	--	--
Hyperformer 501 Brand	9-27	28.3	1.8	2.0	1.6	57.6*	46.3*	56.9**
Hartz 5164	10-02	31.7	2.3	3.5	1.7	57.5*	39.6	53.1*
Hartz Variety H5350	10-07	33.0	1.7	--	--	57.2*	--	--
Terra-Vig 5452	9-28	34.7	4.0	3.4	--	56.6*	38.9	--
JMS 5350	9-26	24.7	1.3	--	--	56.4*	--	--
JMS 5309	10-05	25.0	2.0	2.8	--	56.2*	46.9*	--
Terra-Vig X5653	10-07	39.3	2.8	--	--	56.0*	--	--
AgraTech AT 2555	10-07	33.3	1.8	--	--	55.0*	--	--
Terra RVSL 91-46	10-02	40.7	3.2	--	--	54.8*	--	--
Terra-Vig 515	10-11	34.3	4.7	3.0	2.3	54.7*	35.2	46.5
Pioneer Variety 9521	10-04	28.7	1.7	3.1	--	54.3*	44.3*	--
Stine 5310	9-27	24.3	1.2	--	--	54.2*	--	--
Biodelt 2250	9-25	29.7	1.5	2.3	--	53.2*	22.0	--
Biodelt 2157	10-08	35.0	2.5	2.3	--	52.8	22.5	--
Terra Riverside 577	9-28	38.0	5.0	4.0	--	52.4	40.3	--
Hutcheson	10-05	32.7	2.2	2.2	1.3	52.3	38.9	46.0
Terra-Vig 5693	10-08	34.7	2.0	2.6	1.7	51.4	36.7	45.2
Terra-Vig X6897	10-07	32.3	4.8	--	--	51.2	--	--
Hyperformer HSC 591	10-14	35.0	2.8	3.3	1.6	51.0	37.7	44.9
AgraTech AT 575	10-09	33.7	1.8	1.9	1.7	50.7	33.1	43.1
AgraTech AT 550	10-06	34.7	2.8	3.3	1.7	50.5	31.5	55.0*
Stoneville/FFR 500	9-26	24.7	1.2	2.0	--	50.3	44.1*	--
Northrup King Coker 6955	9-30	28.7	2.2	--	1.3	49.7	--	51.0*
Deltapine Deltapine 105	10-07	34.0	2.8	3.6	2.7	48.1	31.1	45.3
Essex	9-25	26.7	2.3	2.1	1.0	47.3	48.4**	46.9
Hartz Variety H5070	10-04	30.3	1.5	--	--	47.1	--	--
Southern Cross Samson	9-25	36.3	2.0	--	--	47.1	--	--
Hartz Variety H5033	10-03	34.0	2.2	--	--	46.9	--	--
Terra Riverside 499	9-28	42.0	2.3	1.9	--	45.8	29.8	--
Capehart Stone	10-05	37.7	1.8	2.4	1.7	45.6	31.9	41.3
D82-2740	10-09	41.0	4.2	--	--	29.6	--	--
<b>EXPERIMENTAL VARIETIES</b>								
Hyperformer HB2-X544	9-28	31.7	1.5	--	--	55.7*	--	--
Stoneville/FFR 38108	9-30	30.7	1.8	--	--	53.7*	--	--
Northrup King X9256	9-30	31.3	1.5	--	--	52.0	--	--
Deltapine DPX 3589	10-07	42.3	2.8	--	--	52.0	--	--
Hyperformer HB2-X549	10-13	34.0	4.5	--	--	47.6	--	--
Deltapine DPX 3553	10-05	36.0	3.0	--	--	45.3	--	--
Deltapine DPX 3541	10-02	37.3	3.3	--	--	44.8	--	--
6.0 Maturity Group Check##	10-07							
AVERAGE	10-03	33.2	2.5	2.9	1.8	53.3	37.8	47.5
LSD (.05)	8	5.9	1.0	0.8	0.7	8.6	5.4	9.2
CV (%)	1.7	10.9				10.0	8.7	11.9
<b>MATURITY GROUP 6</b>								
<b>COMMERCIAL VARIETIES</b>								
6.0 Maturity Group Check##	10-07							
Dyna Gro 3601	10-15	39.0	4.8	3.7	2.0	47.6	30.7	46.4
AVERAGE	10-15	39.0	4.8	3.4	2.1	47.6	34.3	46.8
<b>TRIAL AVERAGE</b>								
		33.5	2.4	2.6	2.0	53.4	41.0	44.7

-- 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 3.

TABLE 12. Performance of Soybean Varieties evaluated on a Loam Soil near Portageville (Pemiscott County) on the Delta Research Center during 1990-92.

Planted: 10 May 1992  
 Harvested: 28 Sept, 13 Oct. 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Tiptonville Silt Loam  
 Soil Test: pH=6.8, OM=2.0%, P=127, K=394

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=100  
 Herbicide: Pre: Prowl + Scepter  
 Post: Galaxy  
 Irrigation: 1.00 inches  
 Previous Crop: Grain Sorghum

Cyst Nematode Population at Harvest: 9600 eggs / 250cc of soil  
 Growing Season Rainfall: May=2.2, June=4.9, July=3.0, Aug.=7.1, Sept.=2.8, TOTAL=20.0"

Brand-Variety	1992		Lodging Score (1-5)		Yield (Bu/Acre)		SDS Leaf Infected %
	Matu- rity Date	Plant Height (In)	1992	1991	1992	1991	
	<b>MATURITY GROUP 4</b>						
<b>COMMERCIAL VARIETIES</b>							
Asgrow A4715	9-14	29.8	1.5	--	52.8	--	23.3
Biodelt 2146	9-17	29.9	1.7	2.0	50.7	71.1*	10.4
Stoneville/FFR 464	9-12	34.6	2.3	2.0	50.3	56.4*	15.3
Jader J461	9-18	31.7	1.7	--	49.0	--	9.0
JMS 4409	9-09	33.1	2.3	--	48.6	--	19.6
Jader J4881	9-17	26.1	1.3	--	48.6	--	11.7
Dekalb CX458	9-09	30.7	1.5	2.0	48.1	46.8	36.9
United AgriProducts 3405	9-04	34.4	1.7	--	47.6	--	17.7
JMS 4909	9-17	25.5	1.5	1.3	47.5	67.9*	5.5
United AgriProducts 3450	9-11	38.1	2.2	--	46.5	--	32.8
AgraTech AT 455	9-17	33.6	1.5	--	45.8	--	10.9
JMS 4809	9-19	25.3	1.5	--	45.6	--	8.3
Deltapine DP 3456	9-11	30.2	1.8	2.0	45.3	56.0*	36.8
AgraTech AT 495	9-13	23.7	1.7	1.0	45.3	46.7	7.4
Hartz Variety H4464	9-14	37.6	2.3	2.0	45.0	60.4*	63.9
Dekalb CX415	9-04	35.1	1.8	2.0	44.4	58.1*	55.7
Pioneer Variety 9442	9-09	29.4	1.5	--	44.1	--	26.8
Hartz Variety H4242	9-18	23.9	1.5	--	44.0	--	13.1
Pioneer Variety 9443	9-06	23.6	1.5	1.7	43.9	44.7	30.3
Corsica	9-05	22.4	1.5	1.7	42.5	55.7*	46.8
Hamilton	9-02	28.1	1.8	2.0	37.4	50.8	59.9
Jader J467	9-12	39.2	2.5	--	35.8	--	75.8
<b>EXPERIMENTAL VARIETIES</b>							
Deltapine DPX 3478	9-17	33.2	1.5	--	62.4**	--	3.7
S86-4499	9-14	38.0	2.2	2.3	58.7*	66.3*	7.1
Deltapine DPX 3480	9-16	36.2	1.5	--	52.3	--	18.7
Deltapine DPX 3448	9-11	35.2	1.8	--	50.5	--	32.0
Northrup King X9146	9-12	31.1	1.5	--	45.3	--	4.2
United AgriProducts X75	9-07	26.8	1.5	--	44.9	--	33.4
Deltapine DPX 3488	9-17	32.4	1.7	--	42.3	--	35.0
Dunn Exp.444	9-19	16.9	1.3	--	42.3	--	0.0
5.0 Maturity Group Check##	9-19						
AVERAGE	9-12	30.5	1.7	2.0	46.9	55.7	25.1
LSD (.05)	3	4.6	0.5	0.8	8.3	19.0	30.0
CV (%)	0.7	9.2			21.0	10.7	73.4
<b>MATURITY GROUP 5</b>							
<b>COMMERCIAL VARIETIES</b>							
5.0 Maturity Group Check##	9-19						
Hartz 5164	10-05	28.4	1.6	1.7	54.3**	70.1*	6.7
Biodelt 2157	10-02	33.1	2.2	2.7	53.1*	45.8	10.0
Asgrow A5560	10-01	21.7	1.4	--	50.9*	--	23.3
AgraTech AT 2555	10-02	31.9	1.5	--	50.0*	--	23.3
Stoneville/FFR 561	10-01	24.6	1.5	2.0	47.8*	66.7	36.7
Hutcheson	9-30	23.3	1.6	1.6	47.3*	65.6	66.7
Pioneer Variety 9584	10-01	26.3	1.4	--	46.9*	--	23.3
Hartz Variety H5350	9-30	25.2	1.4	--	46.7*	--	43.3
Pioneer Variety 9592	10-06	31.2	1.5	2.0	46.4*	73.2*	20.0
Northrup King Coker 6955	10-01	22.4	1.7	--	46.1*	--	23.3



TABLE 12. Continued.

Brand-Variety	1992		Lodging Score (1-5)		Yield (Bu/Acre)		SDS Leaf Infected %
	Matu- rity Date	Plant Height (In)	1992	1991	1992	1991	
Terra Riverside 577	10-02	26.0	2.0	2.0	46.1*	67.6	26.7
Hartz Variety H5810	9-30	24.3	1.9	--	46.0*	--	16.7
MFA Morsoy 9050	9-28	25.8	1.5	--	45.9*	--	66.7
Stine 5310	9-20	18.8	1.0	--	44.6	--	90.0
Hyperformer HSC 591	10-10	29.4	1.6	1.7	44.2	59.7	23.3
Pioneer Variety 9551	9-28	21.4	1.3	1.3	43.7	62.4	76.7
AgraTech AT 550	10-03	30.6	1.8	1.6	43.3	61.7	20.0
Triumph 552	9-27	21.6	1.9	1.6	43.0	70.4*	66.7
Terra-Vig 5693	10-04	25.5	1.6	1.6	41.4	59.7	40.0
Terra-Vig 5452	10-01	34.5	1.9	2.0	39.9	56.7	53.3
Terra-Vig X6897	10-01	24.6	2.9	--	39.2	--	33.3
Biodelt 2250	9-21	20.1	1.1	3.3	39.2	44.2	90.0
MFA Morsoy 9152	9-24	17.9	1.3	--	39.2	--	90.0
Northrup King S59-60	10-02	25.3	1.4	2.0	38.9	76.9*	36.7
AgraTech AT 575	10-01	25.4	1.8	1.3	38.8	63.9	53.3
Terra-Vig 515	10-07	30.0	1.9	2.0	38.6	60.0	26.7
AgraTech AT 2520	9-28	22.9	1.4	--	38.2	--	53.3
Hyperformer 501 Brand	9-23	21.4	1.2	1.7	38.2	62.8	76.7
Pioneer Variety 9521	9-23	21.6	1.3	1.7	37.7	61.9	73.3
JMS 5309	9-26	23.7	1.7	1.7	37.1	63.0	56.7
Terra-Vig X5653	10-03	35.3	2.5	--	36.9	--	56.7
Southern Cross Samson	9-18	35.6	1.6	--	36.4	--	83.3
Hartz Variety H5566	10-01	25.1	1.5	2.0	35.6	70.2*	16.7
Hartz Variety H5070	9-30	28.9	1.0	--	35.5	--	46.7
Terra Riverside 499	9-25	42.2	2.0	2.7	34.7	54.4	53.3
Essex	9-22	18.9	1.4	1.6	34.4	51.7	90.0
Hartz Variety H5033	9-24	23.2	1.6	--	33.3	--	83.3
Terra RVSL 91-46	9-27	39.5	2.2	--	32.4	--	80.0
Stoneville/FFR 500	9-21	20.5	2.0	1.0	31.8	54.5	80.0
Capehart Stone	10-03	30.3	1.5	1.7	31.0	59.9	53.3
Deltapine Deltapine 415	9-25	24.8	1.5	1.6	30.8	65.9	66.7
Deltapine Deltapine 105	10-01	20.6	3.2	2.1	29.2	55.8	86.7
JMS 5350	9-22	15.5	1.1	--	23.6	--	76.7
<u>EXPERIMENTAL VARIETIES</u>							
Northrup King X9256	9-27	18.5	1.3	--	44.0	--	50.0
Stoneville/FFR 38108	10-01	21.6	1.6	--	42.6	--	73.3
Deltapine DPX 3553	9-30	35.5	1.9	--	38.2	--	60.0
Hyperformer HB2-X549	10-10	34.9	3.1	--	35.0	--	33.3
Deltapine DPX 3541	9-24	31.7	2.0	--	34.6	--	76.7
Hyperformer HB2-X544	9-23	23.4	2.0	--	33.0	--	83.3
Deltapine DPX 3589	10-03	36.0	1.6	--	32.4	--	60.0
D82-2740	10-10	38.3	4.6	--	30.1	--	63.3
6.0 Maturity Group Check##	10-05						
AVERAGE	10-01	26.9	1.8	1.8	39.8	64.5	55.2
LSD (.05)	3	4.9	0.7	0.7	9.4	12.4	26.2
CV (%)	0.7	11.3			12.0	14.5	29.2
<u>MATURITY GROUP 6</u>							
<u>COMMERCIAL VARIETIES</u>							
Dyna Gro 3601	10-10	38.2	4.9	--	41.1	--	20.0
AVERAGE	10-10	38.2	4.9	--	41.1	--	20.0
<u>TRIAL AVERAGE</u>							
		28.2	1.8	1.9	42.4	61.3	40.1

-- Data not available.

\*\* Highest Yielding Variety in the maturity group.

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

## Maturity Group check as identified on page 3.

TABLE 13. Performance of Soybean Varieties evaluated on a Clay Soil near Portageville (Pemiscott County) on the Delta Research Center during 1990-92.

Planted: 30 April 1992  
 Harvested: 30 Sept., 13 Oct. 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Sharkey Silty Clay  
 Soil Test: pH=6.3, OM=2.6%, P=94, K=571

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Treflan + Scepter  
 Post: Galaxy  
 Irrigation: 0.75 inches  
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 400 eggs / 250cc of soil  
 Growing Season Rainfall: May=2.2, June=4.9, July=3.1, Aug.=7.0, Sept.=2.8, TOTAL=20.0"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	MATURITY GROUP 4							
<u>COMMERCIAL VARIETIES</u>								
Asgrow A4715	9-16	34.3	1.7	--	--	58.3**	--	--
AgraTech AT 455	9-21	33.6	1.3	--	--	58.1*	--	--
Stoneville/FFR 464	9-16	30.2	2.0	2.0	1.0	56.3*	50.7*	25.0
JMS 4909	9-16	24.0	1.3	2.0	--	55.4*	45.2	--
Hartz Variety H4242	9-21	25.9	1.5	--	--	54.7*	--	--
Biodelt 2146	9-20	26.6	1.7	2.0	--	51.4*	56.1**	--
Pioneer Variety 9442	9-11	30.7	1.7	--	--	51.3*	--	--
AgraTech AT 495	9-19	29.9	1.2	2.0	1.0	51.2*	46.6	29.2*
Jader J4881	9-20	23.3	1.3	--	--	50.1*	--	--
United AgriProducts 3450	9-14	31.4	1.7	--	--	50.0*	--	--
Jader J461	9-22	29.7	1.5	--	--	49.1*	--	--
JMS 4809	9-20	26.9	1.5	--	--	48.7*	--	--
Dekalb CX415	9-09	29.6	1.5	2.0	1.0	48.4*	42.4	21.0
Jader J467	9-17	33.7	1.7	--	--	46.9*	--	--
Deltapine DP 3456	9-15	27.7	1.5	2.0	1.0	46.1*	50.9*	24.7
JMS 4409	9-11	26.9	1.7	--	--	46.0*	--	--
Dekalb CX458	9-14	24.0	1.5	2.0	1.0	45.7	44.9	21.4
Corsica	9-06	22.9	1.5	2.0	--	45.2	48.2*	--
United AgriProducts 3405	9-13	26.7	1.7	--	--	43.5	--	--
Hartz Variety H4464	9-20	32.5	1.5	2.3	1.0	42.4	49.3*	27.0
Pioneer Variety 9443	9-10	23.6	1.3	2.0	--	39.1	37.2	--
Hamilton	9-05	28.1	1.5	2.0	--	35.9	45.9	--
<u>EXPERIMENTAL VARIETIES</u>								
Deltapine DPX 3478	9-20	28.7	1.5	--	--	58.0*	--	--
S86-4499	9-17	31.4	1.7	2.0	1.0	57.7*	50.0*	30.1*
Deltapine DPX 3488	9-22	27.7	1.5	--	--	51.9*	--	--
Deltapine DPX 3480	9-17	34.7	1.5	--	--	51.6*	--	--
Northrup King X9146	9-14	36.0	1.5	--	--	48.5*	--	--
Deltapine DPX 3448	9-19	30.8	1.5	--	--	47.4*	--	--
United AgriProducts X75	9-08	25.5	1.5	--	--	47.1*	--	--
Dunn Exp.444	9-21	19.2	1.5	--	--	32.6	--	--
5.0 Maturity Group Check##	9-29							
AVERAGE	9-16	28.5	1.5	2.0	1.0	49.0	46.0	26.0
LSD (.05)	5	5.5	0.3	0.5	NS	12.4	8.0	6.4
CV (%)	1.3	11.7				15.4	10.6	15.3
MATURITY GROUP 5								
<u>COMMERCIAL VARIETIES</u>								
5.0 Maturity Group Check##	9-29							
Hartz Variety H5350	10-08	27.5	1.2	--	--	75.2**	--	--
Pioneer Variety 9592	10-08	31.1	1.5	1.5	1.7	71.9*	59.4*	51.8*
Stoneville/FFR 561	10-09	28.0	1.2	1.6	1.0	69.4*	55.3	43.4
Hutcheson	10-07	28.1	1.0	1.3	1.0	66.6	66.5**	44.9
Terra-Vig X5653	10-09	36.5	2.0	--	--	65.5	--	--
Hartz 5164	10-08	30.6	1.5	1.4	1.7	65.4	42.6	48.1*
Hyperformer 501 Brand	10-01	23.1	1.0	1.3	1.3	64.1	59.5*	39.5
Terra-Vig 5693	10-08	29.4	1.3	1.4	1.7	63.3	52.2	41.7
Hartz Variety H5070	10-08	29.5	1.3	--	--	62.3	--	--
Pioneer Variety 9551	10-01	25.2	1.3	1.5	--	62.1	49.8	--

TABLE 13. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
Hartz Variety H5566	10-08	28.1	1.3	1.5	2.0	61.6	46.0	55.3*
Northrup King S59-60	10-06	27.7	1.5	1.8	2.0	61.6	53.0	47.8*
AgraTech AT 575	10-09	33.1	1.5	1.5	1.0	61.5	46.6	45.8
Asgrow A5560	10-04	24.7	1.0	--	--	61.4	--	--
Hartz Variety H5810	10-05	27.1	1.2	--	--	61.1	--	--
JMS 5309	10-08	25.0	1.2	1.4	--	61.1	52.8	--
Pioneer Variety 9584	10-07	28.7	1.3	--	--	60.8	--	--
Capehart Stone	10-09	36.6	1.2	1.3	1.0	60.5	48.9	39.7
Deltapine Deltapine 105	10-09	31.8	1.3	2.0	1.3	60.2	56.5	55.4**
Terra-Vig X6897	10-09	33.1	1.5	--	--	60.2	--	--
MFA Morsoy 9050	10-04	25.7	1.2	--	--	60.2	--	--
AgraTech AT 550	10-08	31.6	1.3	1.5	1.7	60.1	44.1	42.9
Deltapine Deltapine 415	10-04	25.6	1.2	1.4	1.0	59.9	46.1	41.5
Northrup King Coker 6955	10-06	25.9	1.7	--	1.0	59.7	--	39.6
AgraTech AT 2520	10-04	24.3	1.0	--	--	59.7	--	--
Terra RVSL 91-46	10-04	37.7	1.5	--	--	59.7	--	--
Hartz Variety H5033	10-06	26.6	1.3	--	--	59.4	--	--
Terra Riverside 577	10-07	30.7	1.3	1.6	--	59.3	52.2	--
Essex	10-05	22.8	1.0	1.6	1.0	59.2	59.8*	33.5
MFA Morsoy 9152	10-04	23.8	1.2	--	--	59.0	--	--
D82-2740	10-12	35.3	5.0	--	--	58.8	--	--
AgraTech AT 2555	10-02	27.0	1.2	--	--	58.7	--	--
Terra-Vig 5452	10-05	29.9	1.3	1.5	--	58.1	47.4	--
Biodelt 2157	10-08	28.8	1.5	2.0	--	57.9	45.5	--
Hyperformer HSC 591	10-11	35.0	2.3	1.6	1.7	57.2	46.1	48.7*
Terra-Vig 515	10-09	30.3	1.5	1.5	1.3	56.8	48.3	48.8*
Pioneer Variety 9521	10-03	22.9	1.2	1.5	--	56.8	53.6	--
Terra Riverside 499	10-02	38.5	1.5	1.5	--	55.5	53.0	--
Triumph 552	10-06	26.4	1.3	1.3	--	55.4	53.4	--
Southern Cross Samson	10-01	32.0	1.5	--	--	54.9	--	--
Biodelt 2250	10-04	17.9	1.0	2.3	--	51.6	47.3	--
Stoneville/FFR 500	10-01	19.3	1.0	1.0	--	50.1	45.0	--
JMS 5350	10-01	17.2	1.0	--	--	35.6	--	--
Stine 5310	10-03	15.4	1.0	--	--	33.9	--	--
<u>EXPERIMENTAL VARIETIES</u>								
Stoneville/FFR 38108	10-04	26.1	1.3	--	--	67.1	--	--
Deltapine DPX 3541	10-06	31.0	1.5	--	--	63.4	--	--
Deltapine DPX 3553	10-06	37.1	1.5	--	--	62.4	--	--
Hyperformer HB2-X544	10-04	25.0	1.2	--	--	62.4	--	--
Deltapine DPX 3589	10-09	39.5	1.5	--	--	62.2	--	--
Northrup King X9256	10-05	23.0	1.0	--	--	56.2	--	--
Hyperformer HB2-X549	10-12	34.2	1.7	--	--	45.6	--	--
6.0 Maturity Group Check##	10-10							
AVERAGE	10-06	28.6	1.4	1.6	1.4	59.3	50.4	42.9
LSD (.05)	6	3.7	0.5	0.4	0.5	7.2	8.0	8.7
CV (%)	2.8	8.0				7.5	9.7	12.8
MATURITY GROUP 6								
<u>COMMERCIAL VARIETIES</u>								
Dyna Gro 3601	10-13	35.1	2.2	2.0	1.7	50.7	41.8	39.1
AVERAGE	10-13	35.1	2.2	2.0	1.6	50.7	45.2	40.1
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TRIAL AVERAGE		28.6	1.5	1.7	1.4	55.5	48.5	38.5

-- 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 3.

NS Not significant at the .05 level.

TABLE 14. Performance of Soybean Varieties evaluated at two Southeast Missouri locations (Oran and Portageville) during 1992.

Oran Planted: 13 May 1992 Harvested: 29 September Row Spacing: 30 inches Planted Population: 156,800 seeds/A Soil Type: Commerce Silt Loam Previous Crop: Corn SCN Population at Harvest: 28600 eggs Growing Season Rainfall: 20.6"	Portageville - Loam Planted: 10 May 1992 Harvested: 28 Sept., 13 Oct. Row Spacing: 30 inches Planted Population: 156,800 seeds/A Soil Type: Tiptonville Loam Previous Crop: Grain Sorghum SCN Population at Harvest: 9600 eggs Growing Season Rainfall: 20.0"	Portageville - Clay Planted: 30 April 1992 Harvested: 30 Sept., 13 Oct. Row Spacing: 30 inches Planted Population: 156,800 seeds/A Soil Type: Sharkey Clay Previous Crop: Soybean SCN Population at Harvest: 400 eggs Growing Season Rainfall: 20.0"
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Brand-Variety	Lodging Score (1-5)			Yield (Bu/Acre)			
	Oran	Loam Portageville	Clay Portageville	Mean	Oran	Loam Portageville	Clay Portageville

MATURITY GROUP 4

COMMERCIAL VARIETIES

Asgrow A4715	1.5	1.5	1.7	1.6	62.3*	52.8	58.3**	57.8*
Stoneville/FFR 464	2.3	2.3	2.0	2.2	55.6	50.3	56.3*	54.1
Biodelt 2146	2.5	1.7	1.7	2.0	56.2	50.7	51.4*	52.8
AgraTech AT 455	1.8	1.5	1.3	1.5	52.9	45.8	58.1*	52.3
Pioneer Variety 9442	1.3	1.5	1.7	1.5	58.1	44.1	51.3*	51.2
Dekalb CX458	1.7	1.5	1.5	1.6	59.7	48.1	45.7	51.2
JMS 4909	2.3	1.5	1.3	1.7	50.4	47.5	55.4*	51.1
AgraTech AT 495	3.0	1.7	1.2	2.0	54.0	45.3	51.2*	50.2
Jader J461	2.3	1.7	1.5	1.8	52.6	49.0	49.1*	50.2
United AgriProducts 3450	2.7	2.2	1.7	2.2	53.9	46.5	50.0*	50.1
JMS 4409	1.5	2.3	1.7	1.8	55.2	48.6	46.0*	49.9
Jader J4881	2.5	1.3	1.3	1.7	50.8	48.6	50.1*	49.8
Hartz Variety H4242	2.8	1.5	1.5	1.9	50.4	44.0	54.7*	49.7
Deltapine DP 3456	1.8	1.8	1.5	1.7	55.7	45.3	46.1*	49.0
United AgriProducts 3405	1.5	1.7	1.7	1.6	54.9	47.6	43.5	48.7
Hartz Variety H4464	5.0	2.3	1.5	2.9	57.6	45.0	42.4	48.3
Dekalb CX415	1.7	1.8	1.5	1.7	52.1	44.4	48.4*	48.3
MS 4809	3.3	1.5	1.5	2.1	49.1	45.6	48.7*	47.8
Pioneer Variety 9443	1.5	1.5	1.3	1.4	53.0	43.9	39.1	45.3
Corsica	1.5	1.5	1.5	1.5	44.9	42.5	45.2	44.2
Jader J467	3.0	2.5	1.7	2.4	47.3	35.8	46.9*	43.3
Hamilton	1.5	1.8	1.5	1.6	49.3	37.4	35.9	40.9

EXPERIMENTAL VARIETIES

Deltapine DPX 3478	2.5	1.5	1.5	1.8	67.3**	62.4**	58.0*	62.6**
S86-4499	4.0	2.2	1.7	2.6	56.3	58.7*	57.7*	57.6*
Deltapine DPX 3448	1.8	1.8	1.5	1.7	59.2	50.5	47.4*	52.4
Deltapine DPX 3480	2.2	1.5	1.5	1.7	52.2	52.3	51.6*	52.0
Northrup King X9146	2.0	1.5	1.5	1.7	53.8	45.3	48.5*	49.2
Deltapine DPX 3488	1.8	1.7	1.5	1.7	50.1	42.3	51.9*	48.1
United AgriProducts X75	1.2	1.5	1.5	1.4	51.9	44.9	47.1*	48.0
Dunn Exp.444	3.8	1.3	1.5	2.2	41.0	42.3	32.6	38.6
AVERAGE	2.3	1.7	1.5	1.8	53.6	46.9	49.0	49.8
LSD (.05)	0.8	0.5	0.3	0.3	5.8	8.3	12.4	5.5
CV (%)					6.6	21.0	15.4	12.0

MATURITY GROUP 5

COMMERCIAL VARIETIES

Hartz Variety H5350	1.7	1.4	1.2	1.4	57.2*	46.7*	75.2**	59.7**
Pioneer Variety 9592	3.0	1.5	1.5	2.0	60.5*	46.4*	71.9**	59.6**
Stoneville/FFR 561	1.5	1.5	1.2	1.4	60.2*	47.8*	69.4*	59.1*
Hartz 5164	2.3	1.6	1.5	1.8	57.5*	54.3**	65.4	59.1*
Asgrow A5560	1.5	1.4	1.0	1.3	61.2*	50.9*	61.4	57.8*
Pioneer Variety 9584	1.5	1.4	1.3	1.4	61.5*	46.9*	60.8	56.4*
Hutcheson	2.2	1.6	1.0	1.6	52.3	47.3*	66.6	55.4*
Pioneer Variety 9551	1.3	1.3	1.3	1.3	59.8*	43.7	62.1	55.2*
MFA Morsoy 9050	2.5	1.5	1.2	1.7	59.0*	45.9*	60.2	55.0*
Hartz Variety H5810	2.2	1.9	1.2	1.8	57.6*	46.0*	61.1	54.9*
AgraTech AT 2555	1.8	1.5	1.2	1.5	55.0*	50.0*	58.7	54.6

TABLE 14. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Oran	Loam Portageville	Clay Portageville	Mean	Oran	Loam Portageville	Clay Portageville	Mean
Biodelt 2157	2.5	2.2	1.5	2.1	52.8	53.1*	57.9	54.6
Northrup King S59-60	2.8	1.4	1.5	1.9	59.6*	38.9	61.6	53.4
MFA Morsoy 9152	1.7	1.3	1.2	1.4	61.6**	39.2	59.0	53.3
Hyperformer 501 Brand	1.8	1.2	1.0	1.3	57.6*	38.2	64.1	53.3
AgraTech AT 2520	2.5	1.4	1.0	1.6	61.0*	38.2	59.7	53.0
Terra-Vig X5653	2.8	2.5	2.0	2.4	56.0*	36.9	65.5	52.8
Terra Riverside 577	5.0	2.0	1.3	2.8	52.4	46.1*	59.3	52.6
Triumph 552	3.0	1.9	1.3	2.1	58.8*	43.0	55.4	52.4
Terra-Vig 5693	2.0	1.6	1.3	1.6	51.4	41.4	63.3	52.0
Hartz Variety H5566	3.3	1.5	1.3	2.0	58.9*	35.6	61.6	52.0
Northrup King Coker 6955	2.2	1.7	1.7	1.9	49.7	46.1*	59.7	51.8
JMS 5309	2.0	1.7	1.2	1.6	56.2*	37.1	61.1	51.5
Terra-Vig 5452	4.0	1.9	1.3	2.4	56.6*	39.9	58.1	51.5
AgraTech AT 550	2.8	1.8	1.3	2.0	50.5	43.3	60.1	51.3
Hyperformer HSC 591	2.8	1.6	2.3	2.2	51.0	44.2	57.2	50.8
AgraTech AT 575	1.8	1.8	1.5	1.7	50.7	38.8	61.5	50.3
Terra-Vig X6897	4.8	2.9	1.5	3.1	51.2	39.2	60.2	50.2
Terra-Vig 515	4.7	1.9	1.5	2.7	54.7*	38.6	56.8	50.0
Deltapine Deltapine 415	2.7	1.5	1.2	1.8	58.5*	30.8	59.9	49.7
Pioneer Variety 9521	1.7	1.3	1.2	1.4	54.3*	37.7	56.8	49.6
Terra RVSL 91-46	3.2	2.2	1.5	2.3	54.8*	32.4	59.7	49.0
Hartz Variety H5070	1.5	1.0	1.3	1.3	47.1	35.5	62.3	48.3
Biodelt 2250	1.5	1.1	1.0	1.2	53.2*	39.2	51.6	48.0
Essex	2.3	1.4	1.0	1.6	47.3	34.4	59.2	47.0
Hartz Variety H5033	2.2	1.6	1.3	1.7	46.9	33.3	59.4	46.5
Southern Cross Samson	2.0	1.6	1.5	1.7	47.1	36.4	54.9	46.1
Deltapine Deltapine 105	2.8	3.2	1.3	2.4	48.1	29.2	60.2	45.8
Capehart Stone	1.8	1.5	1.2	1.5	45.6	31.0	60.5	45.7
Terra Riverside 499	2.3	2.0	1.5	1.9	45.8	34.7	55.5	45.3
Stine 5310	1.2	1.0	1.0	1.1	54.2*	44.6	33.9	44.2
Stoneville/FFR 500	1.2	2.0	1.0	1.4	50.3	31.8	50.1	44.1
D82-2740	4.2	4.6	5.0	4.6	29.6	30.1	58.8	39.5
JMS 5350	1.3	1.1	1.0	1.1	56.4*	23.6	35.6	38.5
<b>EXPERIMENTAL VARIETIES</b>								
Stoneville/FFR 38108	1.8	1.6	1.3	1.6	53.7*	42.6	67.1	54.5
Northrup King X9256	1.5	1.3	1.0	1.3	52.0	44.0	56.2	50.7
Hyperformer HB2-X544	1.5	2.0	1.2	1.6	55.7*	33.0	62.4	50.4
Deltapine DPX 3589	2.8	1.6	1.5	2.0	52.0	32.4	62.2	48.9
Deltapine DPX 3553	3.0	1.9	1.5	2.1	45.3	38.2	62.4	48.6
Deltapine DPX 3541	3.3	2.0	1.5	2.3	44.8	34.6	63.4	47.6
Hyperformer HB2-X549	4.5	3.1	1.7	3.1	47.6	35.0	45.6	42.7
AVERAGE	2.5	1.8	1.4	1.9	53.3	39.8	59.3	50.8
LSD (.05)	1.0	0.7	0.5	0.4	8.6	9.4	7.2	4.8
CV (%)					10.0	12.0	7.5	10.4
<b>MATURITY GROUP 6</b>								
<b>COMMERCIAL VARIETIES</b>								
Dyna Gro 3601	4.8	4.9	2.2	4.0	47.6	41.1	50.7	46.5
AVERAGE	4.8	4.9	2.2	4.0	47.6	41.1	50.7	46.5
TRIAL AVERAGE	2.4	1.8	1.5	1.9	53.4	42.4	55.5	50.4

\*\* Highest Yielding Variety in the maturity group.

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

## PART II

### SOYBEAN DOUBLE CROP TRIALS

#### SUMMARY OF RESULTS

Soybean varieties were evaluated under double crop conditions in two Southeast Missouri studies during 1992. 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. This is particularly true when considering results from 1992 since the rainfall pattern created above average conditions for double-cropped soybeans.

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 (BUSHELS/ACRE)		DATA TABLE
		RANGE	AVERAGE	
Portageville Loam	25	29-39	35	16
Portageville Clay	25	23-45	38	17

TABLE 16. Performance of Soybean Varieties evaluated following wheat on a Southeast Missouri Loam Soil. The test was on the Delta Research Center near Portageville (Pemiscott County) during 1990-92.

Planted: 24 June 1992  
 Harvested: 23 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Tiptonville Silt Loam  
 Soil Test: pH=5.9, OM=1.7%, P=95, K=306

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Triflan + Scepter  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Wheat

Cyst Nematode Population at Harvest: 3120 eggs / 250cc of soil  
 Growing Season Rainfall: May=2.2, June=4.9, July=3.1, Aug.=7.0, Sept.=2.8, TOTAL=20.0"

Brand-Variety	Maturity Group Class	1992		Lodging (%)			Yield (Bu/Acre)		
		Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
<b>COMMERCIAL VARIETIES</b>									
Delsoy 4210	4	9-29	31.5	1.0	--	--	37.1	--	--
Delsoy 4710	4	9-30	30.5	1.1	1.4	--	35.9	21.6	--
Jader J467	4	9-30	35.8	1.1	--	--	34.4	--	--
Delsoy 4500	4	9-29	27.3	1.0	--	--	29.8	--	--
AgraTech AT 550	5	10-18	40.0	1.5	1.4	2.0	38.7**	27.7	54.4*
Delsoy 4900 ++	5	10-10	33.5	1.6	1.4	2.0	38.3	24.0	48.1
Deltapine Deltapine 105	5	10-17	34.3	1.8	1.8	--	38.0	31.0	--
Hartwig	5	10-12	28.8	1.3	1.6	--	37.8	30.4	--
Bedford	5	10-15	37.3	1.8	1.8	2.3	37.4	24.7	50.4
Asgrow A5885	5	10-09	35.3	1.1	--	--	37.4	--	--
Hutcheson	5	10-13	27.0	1.0	--	2.0	35.9	--	53.9*
Capehart Stone	5	10-18	32.0	1.1	--	--	35.8	--	--
Northrup King Coker 6955	5	10-17	29.0	1.1	1.4	--	34.9	25.4	--
Forrest	5	10-13	35.8	1.6	1.9	--	34.6	27.3	--
Pioneer Variety 9551	5	10-13	29.0	1.1	1.6	--	34.6	31.8**	--
Avery ++	5	10-09	39.3	1.3	1.6	2.0	34.6	27.4	42.9
Pioneer Variety 9592	5	10-15	36.0	1.4	1.6	2.3	33.9	27.6	51.9
Pioneer Variety 9521	5	10-08	28.0	1.0	1.4	--	33.5	24.3	--
Deltapine Deltapine 415	5	10-11	32.3	1.3	1.3	--	33.2	30.3	--
Asgrow A5560	5	10-11	26.0	1.1	--	--	32.4	--	--
Northrup King Co.RA452 ++	5	10-08	29.3	1.0	--	--	31.9	--	--
Rhodes	5	10-10	31.8	1.1	1.6	--	30.0	24.1	--
MFA Morsoy 9050	5	10-14	29.0	1.0	--	--	28.8	--	--
Walters	5	10-11	29.3	1.4	2.1	--	28.7	30.3	--
<b>EXPERIMENTAL VARIETIES</b>									
S86-4499	4	9-30	29.8	1.0	--	--	36.7	--	--
<b>TRIAL AVERAGE</b>									
		10-10	31.9	1.2	1.6	2.0	34.6	27.2	50.8
TRIAL LSD (.05)		4	4.6	0.4	0.3	0.3	NS	NS	6.7
TRIAL CV (%)		1.0	10.2				15.2	25.0	9.4

-- Data not available.  
 \*\* Highest Yielding Variety in the test.  
 \* Yield not significantly less than the highest yielding variety in the trial.  
 ++ Due to actual recorded maturity dates, this variety was evaluated in a maturity group different from that in which it was entered by its sponsor.  
 NS Not significant at the .05 level.

TABLE 17. Performance of Soybean Varieties evaluated following wheat on a Southeast Missouri Clay Soil. The test was on the Delta Research Center near Portageville (Pemiscott County) during 1990-92.

Planted: 25 June 1992  
 Harvested: 26 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Sharkey Silty Clay  
 Soil Test: pH=6.4, OM=3.2%, P=104, K-773

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Squadron  
 Post: Classic, Reflex  
 Irrigation: 0.00 inches  
 Previous Crop: Wheat

Cyst Nematode Population at Harvest: 0 eggs / 250cc of soil  
 Growing Season Rainfall: May=2.7, June=4.9, July=3.1, Aug.=7.0, Sept.=2.8, TOTAL=20.0\*

Brand-Variety	Maturity Group Class	1992		Lodging (%)			Yield (Bu/Acre)		
		Maturity Date	Plant Height (in)	1992	1991	1990	1992	1991	1990
<b>COMMERCIAL VARIETIES</b>									
Delsoy 4710	4	10-10	29.5	1.4	1.5	--	44.1*	27.8	--
Jader J467	4	10-11	28.5	1.5	--	--	40.0*	--	--
Delsoy 4210	4	10-09	29.8	1.3	--	--	37.7*	--	--
Delsoy 4500	4	10-08	23.8	1.3	--	--	28.5	--	--
Rhodes	5	10-19	28.0	1.5	1.6	--	44.7**	40.9*	--
Pioneer Variety 9551	5	10-21	26.3	1.3	1.5	--	43.7*	45.2*	--
Asgrow A5885	5	10-22	27.8	1.1	--	--	43.6*	--	--
Pioneer Variety 9592	5	10-24	33.0	1.6	1.6	2.0	42.6*	47.6*	41.9*
Delsoy 4900 ++	5	10-15	29.8	1.5	1.5	2.0	42.2*	44.0*	36.3
Deltapine Deltapine 415	5	10-20	25.5	1.3	1.5	--	41.8*	36.3	--
Hutcheson	5	10-22	23.3	1.0	--	2.3	41.8*	--	41.0*
Asgrow A5560	5	10-20	23.5	1.1	--	--	40.8*	--	--
Avery ++	5	10-11	37.0	1.6	2.0	2.0	40.5*	44.1*	37.0
Capehart Stone	5	10-23	28.8	1.3	--	--	39.9*	--	--
Deltapine Deltapine 105	5	10-21	27.0	1.5	1.9	--	39.9*	44.2*	--
Walters	5	10-22	21.8	1.1	1.6	--	38.1*	43.7*	--
Forrest	5	10-23	24.0	1.5	1.5	--	37.6*	37.6	--
AgraTech AT 550	5	10-24	28.8	1.5	1.6	2.0	37.4*	39.2	39.0*
Northrup King Coker 6955	5	10-21	21.8	1.0	1.5	--	36.4	38.3	--
MFA Morsoy 9050	5	10-22	22.5	1.1	--	--	33.0	--	--
Pioneer Variety 9521	5	10-16	20.0	1.0	1.5	--	32.3	41.3*	--
Bedford	5	10-21	27.5	1.5	1.9	2.8	30.9	39.4	29.6
Hartwig	5	10-21	19.0	1.0	1.5	--	28.1	41.9*	--
Northrup King Co.RA452 ++	5	10-18	23.3	1.1	--	--	22.7	--	--
<b>EXPERIMENTAL VARIETIES</b>									
S86-4499	4	10-11	29.3	1.1	--	--	40.6*	--	--
<b>TRIAL AVERAGE</b>									
TRIAL LSD (.05)		10-18	26.4	1.3	1.6	1.8	38.0	40.4	36.7
TRIAL CV (%)		2	3.7	0.3	0.2	0.4	8.1	8.1	6.3
		0.6	10.1				15.1	14.2	12.1

-- Data not available.  
 \*\* Highest Yielding Variety in the test.  
 \* Yield not significantly less than the highest yielding variety in the trial.  
 ++ Due to actual recorded maturity dates, this variety was evaluated in a maturity group different from that in which it was entered by its sponsor.



TABLE 18. Performance of Soybean Varieties evaluated following wheat on two soil types near Portageville in Southeast Missouri during 1992.

Brand-Variety	Maturity Group Class	Lodging Score (1-5)			Yield (Bu/Acre)		
		Loam	Clay	Mean	Loam	Clay	Mean
<b>Loam</b>							
Planted: 24 June 1992							
Harvested: 23 October 1992							
Row Spacing: 30 inches							
Planted Population: 156,800 seeds/A.							
<b>Clay</b>							
Planted: 25 June 1992							
Harvested: 26 October 1992							
Row Spacing: 30 inches							
Planted Population: 156,800 seeds/A.							
<b>Soil Type: Tiptonville Silt Loam</b>				<b>Soil Type: Sharkey Silty Clay</b>			
Previous Crop: Wheat				Previous Crop: Wheat			
SCN Population at Harvest: 3120 eggs				SCN Population at Harvest: 0 eggs			
Growing Season Moisture: 20.0"				Growing Season Moisture: 20.0"			
<b>COMMERCIAL VARIETIES</b>							
Delsoy 4710	4	1.1	1.4	1.2	35.9	44.1*	40.0*
Delsoy 4210	4	1.0	1.3	1.2	37.1	37.7*	37.4*
Jader J467	4	1.1	1.5	1.3	34.4	40.0*	37.2*
Delsoy 4500	4	1.0	1.3	1.2	29.8	28.5	29.2
Asgrow A5885	5	1.1	1.1	1.1	37.4	43.6*	40.5**
Delsoy 4900 ++	5	1.6	1.5	1.6	38.3	42.2*	40.2*
Pioneer Variety 9551	5	1.1	1.3	1.2	34.6	43.7*	39.2*
Deltapine Deltapine 105	5	1.8	1.5	1.6	38.0	39.9*	39.0*
Hutcheson	5	1.0	1.0	1.0	35.9	41.8*	38.8*
Pioneer Variety 9592	5	1.4	1.6	1.5	33.9	42.6*	38.2*
AgraTech AT 550	5	1.5	1.5	1.5	38.7**	37.4*	38.0*
Capehart Stone	5	1.1	1.3	1.2	35.8	39.9*	37.8*
Avery ++	5	1.3	1.6	1.4	34.6	40.5*	37.6*
Deltapine Deltapine 415	5	1.3	1.3	1.3	33.2	41.8*	37.5*
Rhodes	5	1.1	1.5	1.3	30.0	44.7**	37.4*
Asgrow A5560	5	1.1	1.1	1.1	32.4	40.8*	36.6*
Forrest	5	1.6	1.5	1.6	34.6	37.6*	36.1*
Northrup King Coker 6955	5	1.1	1.0	1.0	34.9	36.4*	35.6*
Bedford	5	1.8	1.5	1.6	37.4	30.9	34.2
Walters	5	1.4	1.1	1.2	28.7	38.1	33.4
Hartwig	5	1.3	1.0	1.2	37.8	28.1	33.0
Pioneer Variety 9521	5	1.0	1.0	1.0	33.5	32.3	32.9
MFA Morsoy 9050	5	1.0	1.1	1.0	28.8	33.0	30.9
Northrup King Co.RA452 ++	5	1.0	1.1	1.0	31.9	22.7	27.3
<b>EXPERIMENTAL VARIETIES</b>							
S86-4499	4	1.0	1.1	1.0	36.7	40.6*	38.6*
<b>TRIAL AVERAGE</b>							
TRIAL LSD (.05)		0.4	0.4	0.3	34.6	38.0	36.3
TRIAL CV (%)					NS	8.1	5.4
					15.2	15.1	14.4

\*\* Highest Yielding Variety in the trial.  
 \* Yield not significantly less than the highest yielding variety in the trial.  
 ++ Due to actual recorded maturity dates, this variety was evaluated in a maturity group difference from that in which it was entered by its sponsor.  
 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 1992, screenings were conducted using SCN infested soils from Benton City and Clarkton. Race determinations were made on SCN isolates collected from actual trial locations near these Missouri towns in order to identify the SCN populations present. For each of these locations, the SCN Index and appropriate SCN Race are summarized below.

ISOLATE	SCN INDEX				RACE
	PEKING	PICKETT	PI 88788	PI 90763	
BENTON CITY	10	0	4	0	3
CLARKTON	62	104	19	11	4

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 the SCN races present. One hundred and twenty-five commercial varieties and experimental lines were screened for reaction to the Benton City and Clarkton SCN isolates.

Screenings utilizing the two 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 roots were examined and the number of visible female cysts were counted.

The SCN screening results are reported in Table 28 in rating form and are based on the individual counts from these two tests. As a rule, low counts are correlated with high resistance to nematodes. In several cases, some known susceptible cultivars received low scores due to poorly developed root systems. The ratings used in Table 28 for a soybean's response to cyst nematodes are defined below:

SCN INDEX (%)	RATING
0 - 9	R = Resistant
10 - 30	MR - Moderate Resistant
31 - 60	MS = Moderate Susceptible
> 60	S = Susceptible

## SUMMARY OF RESULTS

Soybean varieties and blends were evaluated in six cyst nematode studies by this project. 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	
<u>CYST NEMATODE TESTS</u>				
NORTH-CENTRAL REGION				
Edina	62	25-40	34	20
Brunswick	62	43-66	56	21
Benton City	62	20-35	29	22
SOUTHWEST REGION				
Lamar	27	39-55	46	24
SOUTHEAST REGION				
Bertrand	42	9-50	32	25
Clarkton	42	22-60	41	26

TABLE 20. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Edina (Knox County) on the Steve Miller Farm during 1991-92 and near Baring on the Larry Paisley Farm during 1989.

Planted: 7 May 1992  
 Harvested: 30 September 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=7.1, OM=1.2%, P=53, K=209

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=60; K<sub>2</sub>O=120  
 Herbicide: Pre: Prowl + Command + Scepter  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 48580 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 2  
 Growing Season Rainfall: May=0.8, June=0.4, July=12.7, Aug.=1.6, Sept.=3.9, TOTAL=20.4"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1989	1992	1991	1989
<b>MATURITY GROUP 2</b>								
<u>COMMERCIAL VARIETIES</u>								
Jack	9-15	30.5	1.3	--	--	27.0	--	--
AVERAGE	9-15	30.5	1.3	--	--	27.0	--	--
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
3.0 Maturity Group Check##	9-08							
Northrup King S39-11	9-22	37.7	1.7	1.2	--	39.9**	35.8*	--
Golden Harvest H-1358	9-20	35.2	1.0	1.0	--	39.8*	34.8	--
Ohlde 3662	9-18	33.7	1.0	1.0	1.0	38.8*	37.9**	17.5
McCurdy 389c	9-20	36.5	1.2	--	--	37.0*	--	--
Berhmann-Taylor BT399C	9-21	34.2	1.0	1.0	--	36.8*	35.3*	--
Fayette	9-23	37.8	1.5	1.3	1.0	36.7*	35.2*	22.8**
Reeds Brand 360 SCN	9-23	36.3	2.0	1.7	--	36.5*	36.1*	--
Masco Recycler	9-20	32.5	1.0	1.0	--	35.7*	33.5	--
Dekalb CX340c	9-21	32.8	1.0	1.0	1.0	35.3*	36.6*	21.2*
Wilson 3480	9-19	33.7	1.0	1.0	--	35.2*	37.2*	--
Ray Carroll 938	9-20	33.0	1.0	1.0	--	34.6*	37.2*	--
Shissler GR8 392C	9-21	33.5	1.0	1.0	--	34.4*	36.2*	--
AgriPro AP 3125	9-14	29.0	1.2	--	--	34.2*	--	--
Diamond Conquest	9-18	33.0	1.0	1.0	1.0	34.0*	34.2	21.6*
Stine 3382CN	9-21	35.7	1.0	--	--	34.0*	--	--
Jacques J-380c	9-21	35.0	1.0	1.0	--	33.9*	36.6*	--
Terra-TR 390SCN	9-19	33.3	1.0	1.0	--	33.8*	37.2*	--
Linford	9-23	36.8	1.5	1.2	--	33.5	34.1	--
Lewis 388	9-20	34.3	1.0	1.0	1.0	33.4	36.0*	18.5*
Ciba Geigy Brand G-3388	9-20	33.8	1.0	1.0	1.0	33.0	37.5*	20.1*
MFA Morsoy 9038	9-19	32.7	1.0	1.0	--	32.6	36.5*	--
Lewis 330	9-23	26.7	1.0	1.0	--	32.6	37.4*	--
Dairyland DSR-373	9-19	32.2	1.0	1.0	1.0	32.4	37.5*	22.2*
Lynks 5376	9-20	32.5	1.0	1.0	1.0	32.0	37.3*	19.5*
Merschman McKinley	9-24	35.3	1.2	1.0	--	32.0	36.7*	--
UAP 3340	9-17	33.8	1.0	1.0	--	31.5	34.8	--
UAP 3301	9-15	32.3	1.0	--	--	30.9	--	--
Kitchen KSC 330c	9-22	33.5	1.0	--	--	30.8	--	--
Ohlde 3660	9-20	33.5	1.0	--	--	30.5	--	--
JMS 3609	9-22	34.7	1.3	1.0	1.0	30.2	35.3*	19.9*
Ciba Geigy Brand G-3344	9-14	32.8	1.0	1.0	--	29.2	34.4	--
Asgrow A3431	9-23	31.0	1.0	--	--	29.0	--	--
JMS 3009	9-15	32.5	1.0	--	--	28.3	--	--
Reeds Brand 350 SCN	9-19	31.0	1.2	1.0	1.0	28.3	34.9	19.8*
JMS 3609	9-16	29.3	1.2	--	--	27.3	--	--
MFA Morsoy 9135SCN	9-19	32.7	1.0	--	--	27.7	--	--
Lewis 374	9-22	28.2	1.0	--	--	26.5	--	--
MFA Morsoy 9139	9-15	30.3	1.0	--	--	26.0	--	--
<u>EXPERIMENTAL VARIETIES</u>								
ICI Ex13608N	9-19	32.2	1.0	1.0	--	34.9*	35.4*	--

TABLE 20. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1989	1992	1991	1989
	-----							
4.0 Maturity Group Check##	9-23							
AVERAGE	9-20	33.1	1.1	1.0	1.0	32.7	34.8	19.1
LSD (.05)	2	3.0	0.3	0.2	NS	6.3	2.8	4.4
CV (%)	0.8	8.1				17.1	7.1	21.0
MATURITY GROUP 4								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-23							
Bergmann-Taylor BT413C	9-26	37.5	1.3	--	--	40.0**	--	--
Delsoy 4210	9-28	37.8	1.7	1.5	--	39.8*	32.1	--
Merschman Richmond II	9-24	37.5	1.7	1.7	--	39.2*	35.5*	--
Diamond Jackson II	9-27	40.3	2.0	1.8	1.0	38.9*	33.6	23.2**
Kitchen KSC 402c	9-27	38.5	1.3	--	--	38.7*	--	--
Masco Phyter	9-25	39.7	2.3	--	--	38.7*	--	--
Pioneer Variety 9443	9-26	31.8	1.0	1.0	--	38.4*	36.4*	--
Asgrow A4715	9-28	37.2	1.5	1.0	--	36.1*	33.5	--
AgriPro AP 4201	9-25	36.5	1.7	--	--	35.9*	--	--
Merschman Cleveland II	9-26	36.8	1.2	1.0	--	35.1*	35.6*	--
Merschman Houston II	9-28	46.3	2.2	--	--	34.2*	--	--
Delsoy 4500	9-28	36.2	1.2	1.0	--	33.6	31.4	--
Delsoy 4710	10-01	40.8	2.3	2.0	--	32.8	31.0	--
JMS 4109	9-25	37.0	1.0	1.0	1.0	32.2	34.3*	20.3*
Manokin	9-30	35.5	3.8	3.0	--	31.2	24.3	--
Dekalb CX469c	9-28	37.3	1.0	1.7	1.0	30.3	33.2	19.4*
MFA Morsoy 9043	9-28	32.5	1.2	1.0	--	28.9	28.1	--
<u>EXPERIMENTAL VARIETIES</u>								
S86-4499	9-28	40.7	1.8	1.8	--	38.5*	30.6	--
Dairyland DST-4103	9-24	40.3	1.3	--	--	36.0*	--	--
ICI Ex24408N	9-28	38.8	1.2	--	--	35.3*	--	--
Northrup King X9146	9-27	30.7	1.0	--	--	32.9	--	--
Dairyland DST-4201	9-28	34.3	1.0	--	--	24.8	--	--
5.0 Maturity Group Check##	10-03							
AVERAGE	9-27	37.5	1.6	1.4	1.0	35.1	31.8	17.4
LSD (.05)	1	3.5	0.6	0.3	NS	6.3	2.7	4.4
CV (%)	0.5	8.2				15.6	7.4	21.0
-----								
TRIAL AVERAGE		34.7	1.3	1.2	1.0	33.6	33.7	18.8
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-- Data not available.

\*\* Highest Yielding Variety in the trial.

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

## Maturity Group checks as identified on page 3.

NS Not significant at the .05 level.

TABLE 21. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Brunswick (Carroll County) on the Randy and Steve Meyer Farm during 1990-92.

Planted: 1 May 1992  
 Harvested: 7 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Sarpy Sandy Loam  
 Soil Test: pH=7.2, OM=0.9%, P=83, K=546

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Dual + Sceptor  
 Post: Poast  
 Irrigation: 0.00 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 4600 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 3  
 Growing Season Rainfall: May=0.9, June=1.4, July=9.7, Aug.=3.9, Sept.=2.7, TOTAL=18.6"

Brand-Variety	1992							
	Maturity Date	Plant Height (In)	Lodging Score (1-5)			Yield (Bu/Acre)		
			1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 2</b>								
<u>COMMERCIAL VARIETIES</u>								
Jack	9-11	40.5	2.8	--	--	54.6	--	--
AVERAGE	9-11	40.5	2.8	--	--	54.6	--	--
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
3.0 Maturity Group Check##	9-10							
Reeds Brand 360 SCN	9-19	42.8	3.0	1.5	--	65.7**	48.9*	--
Stine 3382CN	9-16	42.2	1.2	--	--	63.5*	--	--
Golden Harvest H-1358	9-15	42.5	1.0	1.0	1.0	63.4*	46.3*	56.4*
JMS 3609	9-17	43.2	1.5	1.0	1.0	63.3*	46.0*	51.0
Asgrow A3431	9-16	41.0	1.0	--	--	62.9*	--	--
Lewis 374	9-16	36.7	1.0	--	--	62.6*	--	--
Lynks 5376	9-13	41.7	1.2	1.0	1.0	61.6*	43.4*	56.1*
Masco Recyster	9-14	43.8	1.0	1.0	1.0	61.6*	42.2	58.5*
Diamond Conquest	9-14	43.3	1.7	1.0	1.3	61.5*	46.6*	55.2*
Kitchen KSC 330c	9-15	42.0	1.0	--	--	61.3*	--	--
Ohlde 3662	9-13	41.2	1.2	1.0	1.0	60.5*	46.1*	52.4*
Terra-TR 390SCN	9-14	40.5	1.2	1.0	1.0	60.4*	41.0	49.3
Dekalb CX340c	9-14	42.3	1.0	1.0	1.0	60.3*	42.9	55.6*
Reeds Brand 350 SCN	9-20	42.8	3.2	1.5	2.0	60.1	38.5	53.5*
Berhmann-Taylor BT399C	9-14	42.3	1.2	1.0	--	59.6	42.2	--
Jacques J-380c	9-14	43.3	1.2	1.0	--	59.6	48.1*	--
Lewis 388	9-14	41.7	1.2	1.0	1.0	59.0	47.7*	55.1*
JMS 3609	9-16	40.5	1.8	--	--	59.0	--	--
Shissler GR8 392C	9-14	43.5	1.2	1.0	1.0	59.0	45.7*	56.7*
McCurdy 389c	9-15	43.0	1.0	--	--	58.7	--	--
Ohlde 3660	9-15	44.2	1.2	--	--	58.6	--	--
Wilson 3480	9-13	41.2	1.0	1.0	1.0	58.6	46.3*	54.0*
Merschman McKinley	9-17	42.7	1.5	1.2	1.3	58.6	42.3	53.6*
Ray Carroll 938	9-14	40.3	1.0	1.0	1.0	58.6	46.5*	54.4*
MFA Morsoy 9135SCN	9-14	42.8	1.0	--	--	58.5	--	--
UAP 3340	9-15	41.7	1.3	1.0	--	58.4	41.1	--
Linford	9-19	47.0	3.2	1.8	2.2	58.3	41.6	55.8*
Lewis 330	9-13	34.2	1.0	1.0	--	58.0	51.0**	--
Fayette	9-18	46.8	2.5	1.5	--	58.0	34.7	--
Dairyland DSR-373	9-13	39.5	1.0	1.0	--	57.8	49.3*	--
JMS 3009	9-10	40.0	1.0	--	--	57.6	--	--
Ciba Geigy Brand G-3344	9-12	40.0	1.0	1.0	1.0	57.3	41.6	54.8*
Northrup King S39-11	9-17	44.3	1.8	1.0	--	55.9	47.6*	--
Ciba Geigy Brand G-3388	9-13	39.5	1.0	1.0	1.0	55.7	46.6*	56.1*
MFA Morsoy 9038	9-16	41.3	1.8	1.2	--	55.5	45.3*	--
MFA Morsoy 9139	9-16	41.0	1.0	--	--	55.1	--	--
UAP 3301	9-11	36.8	1.0	--	--	52.2	--	--
AgriPro AP 3125	9-09	34.7	1.3	--	--	48.7	--	--
<u>EXPERIMENTAL VARIETIES</u>								
ICI Ex13608N	9-13	41.7	1.2	1.0	--	59.8	40.5	--

TABLE 21. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	<hr/>							
4.0 Maturity Group Check##	9-18							
AVERAGE	9-15	41.5	1.4	1.1	1.2	59.0	43.1	53.7
LSD (.05)	1	2.6	0.4	0.2	0.3	5.5	7.6	6.9
CV (%)	0.4	5.5				8.3	15.7	11.5
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MATURITY GROUP 4								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-18							
AgriPro AP 4201	9-21	49.0	3.8	--	--	55.7*	--	--
Asgrow A4715	9-25	45.5	1.5	1.0	1.0	55.1*	37.7*	53.2
Delsoy 4210	9-24	49.5	3.3	2.0	--	54.6*	37.2*	--
Merschman Richmond II	9-20	48.0	3.7	2.0	1.7	53.3*	41.6*	61.3**
Masco Phyter	9-21	46.3	3.7	--	--	53.0*	--	--
Diamond Jackson II	9-21	47.7	2.8	1.7	1.2	52.8*	30.3	54.0
Pioneer Variety 9443	9-21	41.7	1.8	1.0	--	52.7*	38.1*	--
Bergmann-Taylor BT413C	9-21	46.3	2.5	--	--	51.4	--	--
JMS 4109	9-20	47.0	1.7	1.3	1.3	51.0	33.5	52.9
Merschman Cleveland II	9-21	47.7	2.7	1.5	1.3	50.9	34.7*	55.6*
Kitchen KSC 402c	9-21	46.8	2.7	--	--	50.3	--	--
Dekalb CX469c	9-24	52.2	2.5	2.0	1.5	48.9	31.7	54.8
Delsoy 4500	9-22	49.0	2.7	1.7	1.3	48.9	31.7	55.1*
Delsoy 4710	9-28	48.8	3.7	2.3	--	48.3	28.4	--
Merschman Houston II	9-25	53.3	3.2	--	--	47.8	--	--
Manokin	10-03	45.3	3.8	2.8	--	43.1	36.1*	--
MFA Morsoy 9043	9-25	49.5	2.2	1.2	1.2	42.6	31.3	60.4*
<hr/>								
<u>EXPERIMENTAL VARIETIES</u>								
ICI Ex24408N	9-24	49.8	2.3	--	--	58.2**	--	--
S86-4499	10-01	54.5	4.0	2.0	--	55.6*	32.9	--
Northrup King X9146	9-21	40.8	1.5	--	--	51.6	--	--
Dairyland DST-4201	9-23	46.2	2.7	--	--	47.2	--	--
Dairyland DST-4103	9-20	47.3	1.8	--	--	45.6	--	--
5.0 Maturity Group Check##	9-30							
AVERAGE	9-23	47.8	2.8	1.5	1.3	50.8	34.6	54.0
LSD (.05)	1	4.2	0.7	0.2	0.5	5.5	7.3	6.4
CV (%)	0.5	7.6				9.5	18.9	10.4
<hr/>								
TRIAL AVERAGE		43.8	1.9	1.2	1.3	56.1	40.0	53.8
<hr/>								

-- Data not available.

\*\* Highest Yielding Variety in the trial.

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

# Maturity Group checks as identified on page 3.

TABLE 22. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Benton City (Audrain County) on the Robert and Bruce Boyes Farm during 1990-92.

Planted: 6 May 1992  
 Harvested: 1 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Putnam Silt Loam  
 Soil Test: pH=6.3, OM=1.5%, P=39, K=177

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=100  
 Herbicide: Pre: Canopy + Lasso  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 5840 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 3  
 Growing Season Rainfall: May=1.4, June=0.8, July=5.5, Aug.=1.0, Sept.=4.5, TOTAL=13.2"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 2</b>								
<u>COMMERCIAL VARIETIES</u>								
Jack	9-10	31.3	1.2	--	--	27.9*	--	--
AVERAGE	9-10	31.3	1.2	--	--	27.9*	--	--
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
3.0 Maturity Group Check##	9-09							
Terra-TR 390SCN	9-12	29.0	1.0	1.0	1.0	32.5**	41.4*	38.7*
Fayette	9-14	34.3	1.2	2.5	--	32.5**	40.3	--
Northrup King S39-11	9-19	31.7	1.3	3.2	--	31.9*	40.4	--
Dairyland DSR-373	9-12	28.2	1.0	1.0	--	31.4*	44.1**	--
Berhmann-Taylor BT399C	9-15	27.3	1.0	1.0	--	31.4*	41.8*	--
Lynks 5376	9-13	28.8	1.0	1.0	1.0	30.3*	39.8	36.3*
Linford	9-16	33.2	1.5	2.8	1.3	30.3*	42.0*	38.6*
Ciba Geigy Brand G-3388	9-12	27.2	1.0	1.0	1.0	30.0*	42.4*	38.0*
JMS 3009	9-11	27.5	1.0	--	--	29.9*	--	--
Shissler GR8 392C	9-14	28.7	1.0	1.0	1.0	29.8*	41.6*	35.7*
Dekalb CX340c	9-14	27.3	1.0	1.0	1.0	29.6*	41.3*	36.3*
Lewis 388	9-12	28.0	1.0	1.0	1.0	29.5*	40.3	39.5*
Reeds Brand 360 SCN	9-15	32.8	1.8	3.2	--	29.4*	41.5*	--
JMS 3609	9-14	27.7	1.2	--	--	29.3*	--	--
AgriPro AP 3125	9-09	26.2	1.0	--	--	29.1*	--	--
Ohlde 3662	9-15	28.0	1.0	1.0	1.0	29.0*	40.9*	40.8*
MFA Morsoy 9139	9-13	27.5	1.0	--	--	29.0*	--	--
Golden Harvest H-1358	9-15	27.3	1.0	1.0	1.0	28.7*	41.0*	38.9*
Kitchen KSC 330c	9-14	27.8	1.2	--	--	28.6*	--	--
Ohlde 3660	9-14	27.5	1.0	--	--	28.4*	--	--
McCurdy 389c	9-17	29.3	1.2	--	--	28.4*	--	--
Reeds Brand 350 SCN	9-18	29.5	1.0	1.0	1.2	28.2*	41.5*	36.0*
Stine 3382CN	9-15	29.2	1.0	--	--	28.2*	--	--
MFA Morsoy 9038	9-14	27.8	1.3	1.5	--	28.0*	39.9	--
MFA Morsoy 9135SCN	9-13	31.0	1.0	--	--	27.9*	--	--
Wilson 3480	9-13	29.2	1.0	1.0	1.0	27.7*	39.6	37.7*
Merschman McKinley	9-17	27.7	1.2	2.0	1.0	27.6	43.3*	33.0
Lewis 374	9-17	24.2	1.0	--	--	27.5	--	--
UAP 3301	9-13	25.3	1.0	--	--	27.3	--	--
Masco Recyster	9-13	27.7	1.0	1.0	1.0	27.2	41.1*	40.7*
Asgrow A3431	9-16	26.8	1.0	--	--	27.0	--	--
Diamond Conquest	9-13	29.0	1.0	1.0	1.0	26.9	42.6*	36.5*
Ciba Geigy Brand G-3344	9-12	27.5	1.0	1.0	1.0	26.5	40.9*	34.5
JMS 3609	9-18	28.2	1.2	1.0	1.0	26.3	41.2*	36.3*
Jacques J-380c	9-13	27.8	1.0	1.2	--	26.2	43.3*	--
Ray Carroll 938	9-16	26.7	1.0	1.0	1.0	26.0	41.5*	40.2*
UAP 3340	9-15	27.7	1.0	1.0	--	25.1	41.0*	--
Lewis 330	9-18	18.8	1.0	1.0	--	20.2	39.0	--
<u>EXPERIMENTAL VARIETIES</u>								
ICI Ex13608N	9-13	29.0	1.0	1.0	--	29.0*	39.5	--



TABLE 22. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	4.0 Maturity Group Check##	9-16						
AVERAGE	9-14	28.2	1.1	1.3	1.1	28.5	40.4	37.3
LSD (.05)	3	2.6	0.3	0.7	0.3	4.8	3.3	5.9
CV (%)	1.1	8.0				15.0	7.3	14.2
MATURITY GROUP 4								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-16							
AgriPro AP 4201	9-13	34.8	1.2	--	--	34.8**	--	--
Diamond Jackson II	9-15	36.2	1.2	3.5	1.2	33.5*	43.4	33.1
JMS 4109	9-14	34.0	1.0	2.8	1.0	33.3*	46.0*	30.3
Delsoy 4210	9-14	38.3	1.3	3.3	--	33.2*	43.7	--
Merschman Richmond II	9-12	35.2	1.2	3.5	1.8	33.0*	42.1	36.3*
Dekalb CX469c	9-21	39.2	1.5	3.3	1.0	32.5*	43.0	35.1*
Asgrow A4715	9-22	34.0	1.0	2.2	1.0	31.4*	47.9**	36.1*
Bergmann-Taylor BT413C	9-13	34.2	1.0	--	--	31.0*	--	--
MFA Morsoy 9043	9-17	36.2	1.0	2.2	1.0	30.9*	37.7	31.8
Merschman Houston II	9-23	41.0	1.5	--	--	30.9*	--	--
Merschman Cleveland II	9-13	33.2	1.0	2.2	1.0	30.5*	45.0*	38.5**
Kitchen KSC 402c	9-14	32.2	1.0	--	--	29.6	--	--
Delsoy 4710	9-23	36.5	1.7	3.2	--	29.4	43.4	--
Pioneer Variety 9443	9-17	28.7	1.0	1.8	--	29.3	47.3*	--
Masco Phyter	9-13	34.5	1.0	--	--	29.0	--	--
Manokin	10-03	35.8	3.3	4.2	--	28.9	44.0	--
Delsoy 4500	9-20	35.2	1.0	2.7	1.2	27.8	42.0	37.1*
<u>EXPERIMENTAL VARIETIES</u>								
ICI Ex24408N	9-15	35.5	1.0	--	--	32.4*	--	--
Northrup King X9146	9-16	28.7	1.0	--	--	31.0*	--	--
S86-4499	9-23	35.8	1.5	4.0	--	30.6*	44.0	--
Dairyland DST-4103	9-15	35.2	1.0	--	--	27.8	--	--
Dairyland DST-4201	9-20	35.3	1.2	--	--	26.9	--	--
5.0 Maturity Group Check##	9-27							
AVERAGE	9-18	35.0	1.3	2.8	1.3	30.8	43.1	33.7
LSD (.05)	3	2.7	0.4	1.2	0.4	4.6	3.8	3.7
CV (%)	1.0	6.8				12.9	7.9	10.0
TRIAL AVERAGE		30.6	1.1	1.8	1.2	29.3	41.3	36.0

-- Data not available.

\*\* Highest Yielding Variety in the trial.

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

## Maturity Group checks as identified on page 3.

TABLE 23. Performance of Soybean Cyst Nematode Resistant Soybean Varieties evaluated at three North Central Missouri locations (Edina, Brunswick and Benton City) during 1992.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Edina	Brunswick	BentonCity	Mean	Edina	Brunswick	Benton City	Mean
<b>MATURITY GROUP 2</b>								
<u>COMMERCIAL VARIETIES</u>								
Jack	1.3	2.8	1.2	1.8	27.0	54.6	27.9*	36.5
AVERAGE	1.3	2.8	1.2	1.8	27.0	54.6	27.9	36.5
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
Golden Harvest H-1358	1.0	1.0	1.0	1.0	39.8*	63.4*	28.7*	44.0**
Reeds Brand 360 SCN	2.0	3.0	1.8	2.3	36.5*	65.7**	29.4*	43.9*
Ohlde 3662	1.0	1.2	1.0	1.1	38.8*	60.5*	29.0*	42.8*
Berhmann-Taylor BT399C	1.0	1.2	1.0	1.1	36.8*	59.6	31.4*	42.6*
Northrup King S39-11	1.7	1.8	1.3	1.6	39.9**	55.9	31.9*	42.6*
Fayette	1.5	2.5	1.2	1.7	36.7*	58.0	32.5**	42.4*
Terra-TR 390SCN	1.0	1.2	1.0	1.1	33.8*	60.4*	32.5**	42.2*
Stine 3382CN	1.0	1.2	1.0	1.1	34.0*	63.5*	28.2*	41.9*
Dekalb CX340c	1.0	1.0	1.0	1.0	35.3*	60.3*	29.6*	41.7*
Masco Recyster	1.0	1.0	1.0	1.0	35.7*	61.6*	27.2	41.5*
McCurdy 389c	1.2	1.0	1.2	1.1	37.0*	58.7	28.4*	41.4*
Lynks 5376	1.0	1.2	1.0	1.1	32.0	61.6*	30.3*	41.3*
Shissler GR8 392C	1.0	1.2	1.0	1.1	34.4*	59.0	29.8*	41.1*
Diamond Conquest	1.0	1.7	1.0	1.2	34.0*	61.5*	26.9	40.8*
Linford	1.5	3.2	1.5	2.1	33.5	58.3	30.3*	40.7
Lewis 388	1.0	1.2	1.0	1.1	33.4	59.0	29.5*	40.6
Wilson 3480	1.0	1.0	1.0	1.0	35.2*	58.6	27.7*	40.5
Dairyland DSR-373	1.0	1.0	1.0	1.0	32.4	57.8	31.4*	40.5
Kitchen KSC 330c	1.0	1.0	1.2	1.1	30.8	61.3*	28.6*	40.2
Jacques J-380c	1.0	1.2	1.0	1.1	33.9*	59.6	26.2	39.9
JMS 3609	1.3	1.5	1.2	1.3	30.2	63.3*	26.3	39.9
Ray Carroll 938	1.0	1.0	1.0	1.0	34.6*	58.6	26.0	39.7
Ciba Geigy Brand G-3388	1.0	1.0	1.0	1.0	33.0	55.7	30.0*	39.6
Asgrow A3431	1.0	1.0	1.0	1.0	29.0	62.9*	27.0	39.6
Merschman McKinley	1.2	1.5	1.2	1.3	32.0	58.6	27.6	39.4
Ohlde 3660	1.0	1.2	1.0	1.1	30.5	58.6	28.4*	39.2
Lewis 374	1.0	1.0	1.0	1.0	26.5	62.6*	27.5	38.9
Reeds Brand 350 SCN	1.2	3.2	1.0	1.8	28.3	60.1	28.2*	38.9
MFA Morsoy 9038	1.0	1.8	1.3	1.4	32.6	55.5	28.0*	38.7
JMS 3009	1.0	1.0	1.0	1.0	28.3	57.6	29.9*	38.6
JMS 3609	1.2	1.8	1.2	1.4	27.3	59.0	29.3*	38.5
UAP 3340	1.0	1.3	1.0	1.1	31.5	58.4	25.1	38.3
MFA Morsoy 9135SCN	1.0	1.0	1.0	1.0	27.1	58.5	27.9*	37.8
Ciba Geigy Brand G-3344	1.0	1.0	1.0	1.0	29.2	57.3	26.5	37.7
AgriPro AP 3125	1.2	1.3	1.0	1.2	34.2*	48.7	29.1*	37.3
Lewis 330	1.0	1.0	1.0	1.0	32.6	58.0	20.2	36.9
UAP 3301	1.0	1.0	1.0	1.0	30.9	52.2	27.3	36.8
MFA Morsoy 9139	1.0	1.0	1.0	1.0	26.0	55.1	29.0*	36.7
<u>EXPERIMENTAL VARIETIES</u>								
ICI Ex13608N	1.0	1.2	1.0	1.1	34.9*	59.8	29.0*	41.2*
AVERAGE	1.1	1.4	1.1	1.2	32.7	59.0	28.5	40.1
LSD (.05)	0.3	0.4	0.3	0.2	6.3	5.5	4.8	3.2
CV (%)					17.1	8.3	15.0	12.3

TABLE 23. Continued.

Brand-Variety	Lodging Score (1-5)				Yield (Bu/Acre)			
	Edina	Brunswick	Benton	City Mean	Edina	Brunswick	Benton City	Mean
<b>MATURITY GROUP 4</b>								
<b>COMMERCIAL VARIETIES</b>								
Delsoy 4210	1.7	3.3	1.3	2.1	39.8*	54.6*	33.2*	42.5**
AgriPro AP 4201	1.7	3.8	1.2	2.2	35.9*	55.7*	34.8**	42.1*
Merschman Richmond II	1.7	3.7	1.2	2.2	39.2*	53.3*	33.0*	41.8*
Diamond Jackson II	2.0	2.8	1.2	2.0	38.9*	52.8*	33.5*	41.7*
Asgrow A4715	1.5	1.5	1.0	1.3	36.1*	55.1*	31.4*	40.9*
Bergmann-Taylor BT413C	1.3	2.5	1.0	1.6	40.0**	51.4	31.0*	40.8*
Masco Phyter	2.3	3.7	1.0	2.3	38.7*	53.0*	29.0	40.2*
Pioneer Variety 9443	1.0	1.8	1.0	1.3	38.4*	52.7*	29.3	40.1*
Kitchen KSC 402c	1.3	2.7	1.0	1.7	38.7*	50.3	29.6	39.5*
JMS 4109	1.0	1.7	1.0	1.2	32.2	51.0	33.3*	38.8
Merschman Cleveland II	1.2	2.7	1.0	1.6	35.1*	50.9	30.5*	38.8
Merschman Houston II	2.2	3.2	1.5	2.3	34.2*	47.8	30.9*	37.6
Dekalb CX469c	1.0	2.5	1.5	1.7	30.3	48.9	32.5*	37.2
Delsoy 4500	1.2	2.7	1.0	1.6	33.6	48.9	27.8	36.8
Delsoy 4710	2.3	3.7	1.7	2.6	32.8	48.3	29.4	36.8
Manokin	3.8	3.8	3.3	3.6	31.2	43.1	28.9	34.4
MFA Morsoy 9043	1.2	2.2	1.0	1.5	28.9	42.6	30.9*	34.1
<b>EXPERIMENTAL VARIETIES</b>								
ICI Ex24408N	1.2	2.3	1.0	1.5	35.3*	58.2**	32.4*	42.0*
S86-4499	1.8	4.0	1.5	2.4	38.5*	55.6*	30.6*	41.6*
Northrup King X9146	1.0	1.5	1.0	1.2	32.9	51.6	31.0*	38.5
Dairyland DST-4103	1.3	1.8	1.0	1.4	36.0*	45.6	27.8	36.5
Dairyland DST-4201	1.0	2.7	1.2	1.6	24.8	47.2	26.9	33.0
AVERAGE	1.6	2.8	1.3	1.9	35.1	50.8	30.8	38.9
LSD (.05)	0.6	0.7	0.4	0.3	6.3	5.5	4.6	3.1
CV (%)					15.6	9.5	12.9	12.3
<b>TRIAL AVERAGE</b>	<b>1.3</b>	<b>1.9</b>	<b>1.1</b>	<b>1.4</b>	<b>33.6</b>	<b>56.1</b>	<b>29.3</b>	<b>39.7</b>

\*\* Highest Yielding Variety in the maturity group.

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

TABLE 24. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1990-92.

Planted: 8 May 1992  
 Harvested: 13 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Parsons Silt Loam  
 Soil Test: pH=7.1, OM=1.1%, P=133, K=462

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=0  
 Herbicide: Pre: Lasso + Sceptor  
 Post: None  
 Irrigation: 0.00 inches  
 Previous Crop: Corn

Cyst Nematode Population at Harvest: 35,200 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 5  
 Growing Season Rainfall: May=5.5, June=4.5, July=18.3, Aug.=1.9, Sept.=9.2, TOTAL=39.4"

Brand-Variety	1992			Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)		1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 3</b>									
<u>COMMERCIAL VARIETIES</u>									
Linford	9-08	34.2	1.5	1.0	--	--	44.8**	32.0*	--
Dekalb CX340c	9-07	30.8	1.3	--	--	--	43.7*	--	--
Northrup King S39-11	9-10	31.2	1.5	1.0	--	--	42.6*	33.3**	--
Terra-TR 390SCN	9-07	30.2	1.2	1.0	1.0	--	42.4*	30.2*	6.2*
4.0 Maturity Group Check##	9-09								
AVERAGE	9-08	31.6	1.4	1.0	1.0	--	43.4	27.7	6.1
LSD (.05)	1	2.6	0.5	NS	NS	--	3.5	5.2	3.0
CV (%)	0.5	6.7				--	6.6	16.7	41.0
<b>MATURITY GROUP 4</b>									
<u>COMMERCIAL VARIETIES</u>									
4.0 Maturity Group Check##	9-09								
Manokin	9-28	27.8	2.5	1.0	--	--	46.7**	23.0	--
Asgrow A4138	9-09	31.2	1.5	--	--	--	45.9*	--	--
Pioneer Variety 9443	9-12	28.0	1.2	1.0	--	--	45.6*	24.2	--
Delsoy 4210	9-13	33.0	2.0	1.0	--	--	44.5*	27.9	--
Dekalb CX469c	9-15	37.2	1.8	1.0	1.0	--	44.1*	28.8	12.8*
Merschman Richmond II	9-09	33.2	2.5	1.2	1.0	--	43.8*	33.0*	14.1*
MFA Morsoy 9043	9-12	35.5	1.0	--	1.0	--	43.7*	--	14.7*
Merschman Houston II	9-14	39.2	1.8	1.0	1.0	--	43.6*	30.1	11.8
Delsoy 4500	9-14	33.7	1.8	1.0	1.0	--	42.7	28.9	12.4
Delsoy 4710	9-16	42.7	2.8	1.5	--	--	41.9	33.8*	--
Ciba Geigy Brand G-3482	9-15	29.8	1.3	--	--	--	39.7	--	--
MFA Morsoy 8947SCN	9-15	30.7	1.7	1.0	--	--	38.6	36.3**	--
<u>EXPERIMENTAL VARIETIES</u>									
S86-4499	9-14	36.8	2.3	--	--	--	45.3*	--	4.0
Northrup King X9146	9-14	35.5	1.8	--	--	--	42.9	--	--
5.0 Maturity Group Check##	9-30								
AVERAGE	9-14	33.9	1.9	1.1	1.0	--	43.5	28.2	11.0
LSD (.05)	2	2.5	0.6	0.3	NS	--	4.0	4.7	4.5
CV (%)	0.8	6.3				--	8.1	14.7	35.2
<b>MATURITY GROUP 5</b>									
<u>COMMERCIAL VARIETIES</u>									
5.0 Maturity Group Check##	9-30								
Walters	10-12	34.7	2.2	1.5	--	--	54.6**	44.7	--
Asgrow A5403	10-08	32.2	1.0	1.0	1.0	--	52.0*	51.2**	25.1
Delsoy 4900+ +	10-03	34.7	1.3	1.0	1.0	--	51.4*	45.2*	13.0
Merschman Rushmore	10-07	32.2	1.7	1.0	--	--	50.9*	37.5	--
Rhodes	10-08	36.7	1.7	1.0	1.0	--	50.6*	40.0	31.1**

TABLE 24. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	Pioneer Variety 9521	10-04	32.3	1.2	1.0	--	50.4	46.0*
Hartwig	10-07	28.7	2.0	1.0	--	47.5	45.8*	--
Cordell	10-08	33.3	2.5	--	1.0	46.7	--	24.8
Avery + +	9-27	46.7	2.0	1.8	1.0	42.5	29.4	24.0
6.0 Maturity Group Check##	10-12							
AVERAGE	10-06	34.6	1.7	1.1	1.0	49.6	40.8	22.3
LSD (.05)	3	2.7	0.4	0.3	NS	4.1	6.0	3.7
CV (%)	0.9	6.7				7.1	12.7	14.3
TRIAL AVERAGE		33.8	1.7	1.1	1.0	45.5	31.6	12.3

-- 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 3.

+ + Due to actual recorded maturity dates, this variety was evaluated in a maturity group different from that in which it was entered by its sponsor.

NS Not significant at the .05 level.

TABLE 25. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Bertrand (Mississippi County) on the Arington Farms during 1991-92.

Planted: 18 May 1992  
 Harvested: 21 October 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Clana Loamy Fine Sand  
 Soil Test: pH=6.3, OM=1.3%, P=114, K=273

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=10; K<sub>2</sub>O=90  
 Herbicide: Pre: Prowl + Sceptor  
 Post: Poast, Basagran, Blazer, Assure  
 Irrigation: 4.00 inches  
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 34800 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 14  
 Growing Season Rainfall: May=2.2, June=3.7, July=5.5, Aug.=1.6, Sept.=5.2, TOTAL=18.2"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Maturity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
Terra-TR 390SCN=	9-07	25.0	1.2	1.2	--	38.5*	34.6	--
AVERAGE	9-07	25.0	1.2	1.2	--	38.5*	34.6	--
<b>MATURITY GROUP 4</b>								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-12							
Delsoy 4210	9-21	30.3	1.5	1.8	--	41.6**	56.5*	--
Manokin	9-30	23.2	1.3	1.1	--	41.2*	58.0*	--
Delsoy 4710	9-26	26.8	1.5	1.6	--	36.5*	56.5*	--
Delsoy 4500	9-17	26.5	1.3	1.3	--	33.9	41.5	--
Dekalb CX469c	9-19	27.5	1.4	1.3	--	32.9	45.2	--
JMS 4409	9-12	25.7	1.5	1.8	--	32.0	38.4	--
Asgrow A4715	9-21	24.2	1.3	--	--	27.5	--	--
Berhmann-Taylor BT463C	9-14	26.2	1.2	--	--	22.1	--	--
Bergmann-Taylor BT500C	9-17	20.2	1.0	--	--	18.6	--	--
Jader J4881	9-19	20.2	1.2	--	--	17.7	--	--
JMS 4809	9-20	17.8	1.1	--	--	15.8	--	--
MFA Morsoy 8947SCN	9-20	20.8	1.0	1.1	--	15.6	32.0	--
JMS 4909	9-18	18.0	1.1	1.1	--	12.9	33.2	--
AgraTech AT495	9-14	16.7	1.3	1.0	--	8.8	35.3	--
<u>EXPERIMENTAL VARIETIES</u>								
S86-4499	9-23	32.0	1.4	1.6	--	39.4*	58.1**	--
5.0 Maturity Group Check##	10-02							
AVERAGE	9-19	23.8	1.3	1.4		27.2	42.6	
LSD (.05)	4	1.6	0.3	0.4		6.5	8.8	
CV (%)	1.2	11.5				20.9	14.8	
<b>MATURITY GROUP 5</b>								
<u>COMMERCIAL VARIETIES</u>								
5.0 Maturity Group Check##	10-02							
Hartwig	10-09	27.5	1.3	1.0	--	49.8**	52.7*	--
Cordell	10-08	32.5	1.8	--	--	43.3*	--	--
Pioneer Variety 9551	10-07	25.0	1.0	1.0	--	39.5	46.1*	--
Pioneer Variety 9521	10-05	21.3	1.2	1.0	--	39.0	41.9	--
Hyperformer HSC 557	10-11	40.0	2.1	1.6	--	38.7	41.5	--
Stoneville FFR 500	10-04	18.0	1.0	1.1	--	34.6	35.2	--
AgraTech AT550	10-08	37.7	1.1	1.1	--	34.6	42.6	--
Avery ++	9-30	40.8	1.9	1.6	--	34.2	48.8*	--
Hyperformer HSC 501	10-05	24.0	1.0	1.0	--	33.4	39.9	--
Rhodes	10-07	29.7	1.5	1.0	--	32.7	49.8*	--
Northrup King S59-60	10-09	25.7	1.2	1.0	--	32.6	36.7	--
Forrest	10-10	30.0	1.4	1.1	--	32.4	43.5*	--
Bedford	10-11	33.2	1.8	1.1	--	31.8	45.9*	--

TABLE 25. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	JMS 5309	10-08	25.7	1.2	1.0	--	30.8	44.6*
Triumph TRX 552	10-10	25.8	1.2	1.0	--	30.8	49.8*	--
Hyperformer HSC 591	10-15	34.3	1.7	1.0	--	30.4	35.7	--
Walters	10-09	24.8	1.4	1.1	--	26.8	39.0	--
Asgrow A5560	10-07	25.0	1.0	--	--	25.8	--	--
DeSoy 4900++	10-02	24.2	1.2	1.2	--	25.5	40.4	--
<b>EXPERIMENTAL VARIETIES</b>								
Hyperformer HB2-X544	10-06	25.5	1.2	--	--	43.1*	--	--
S85-1706	10-05	28.3	1.7	1.0	--	40.5	43.6*	--
Hyperformer HB2-X549#	10-15	34.3	1.9	--	--	35.1	--	--
D82-2740	10-06	31.8	1.6	--	--	32.7	--	--
Stoneville FFR 38108	10-04	17.0	1.0	--	--	19.0	--	--
6.0 Maturity Group Check##	10-11							
AVERAGE	10-08	28.4	1.4	1.1		34.0	41.8	
LSD (.05)	4	3.8	0.3	0.2		7.0	9.9	
CV (%)	1.2	11.7				18.0	17.2	
MATURITY GROUP 6								
<b>EXPERIMENTAL VARIETIES</b>								
6.0 Maturity Group Check##	10-11							
Northrup King X9161	10-13	27.5	1.3	--	--	40.7**	--	--
S84-1876	10-15	25.2	1.1	1.1	--	37.5	47.1*	--
7.0 Maturity Group Check##	10-20							
AVERAGE	10-14	26.4	1.2	1.4		39.1	40.6	
LSD (.05)	NS	NS	NS	0.4		2.6	8.1	
CV (%)	1.2	13.1				3.8	13.2	
<b>TRIAL AVERAGE</b>								
		26.6	1.3	1.2		31.7	42.1	

-- Data not available.

\*\* Highest Yielding Variety in the maturity group.

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

# Variety is grouped as originally entered, but due to actual recorded maturity dates may need to be reclassified into a different maturity group.

## Maturity Group check as identified on page 3.

++ Due to actual recorded maturity dates from previous years, this variety was evaluated in a maturity group different from that in which it was entered by its sponsor.

= Maturity Group 3 variety tested in Maturity Group 4.

NS Not significant at the .05 level.

TABLE 26. Performance of Soybean Cyst Nematode Resistant Varieties evaluated near Clarkton (Dunklin County) on the Delta Research Center Rhodes Farm during 1990-92.

Planted: 21 May 1992  
 Harvested: 6, 19 Oct. 1992  
 Planted Population: 156,800 Seeds/A.  
 Row Spacing: 30 inches  
 Soil Type: Bosket Fine Sandy Loam  
 Soil Test: pH=6.2, OM=0.6%, P=94, K=264

Fertilizer: N=0; P<sub>2</sub>O<sub>5</sub>=0; K<sub>2</sub>O=200  
 Herbicide: Pre: Teflan + Scepter  
 Post: Galaxy  
 Irrigation: 0.75 inches  
 Previous Crop: Soybean

Cyst Nematode Population at Harvest: 2720 eggs / 250cc of soil  
 Cyst Nematode Race: Race = 4  
 Growing Season Rainfall: May=2.8, June=12.0, July=4.3, Aug.=2.4, Sept.=5.0, TOTAL=26.5"

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
<b>MATURITY GROUP 3</b>								
<u>COMMERCIAL VARIETIES</u>								
Terra-TR 390SCN=	9-13	27.7	1.5	1.3	1.0	33.3	22.8	5.9
AVERAGE	9-13	27.7	1.5	1.3	1.0	33.3	22.8	5.9
<b>MATURITY GROUP 4</b>								
<u>COMMERCIAL VARIETIES</u>								
4.0 Maturity Group Check##	9-13							
Delsoy 4710	9-23	37.0	1.8	1.4	1.0	59.5**	39.6*	16.3**
AgraTech AT495	9-22	23.8	1.4	1.0	1.0	57.2*	32.5	9.8
Manokin	9-25	24.5	1.3	1.0	--	56.6*	37.6*	--
Asgrow A4715	9-21	30.3	1.3	--	--	55.9*	--	--
JMS 4909	9-22	23.5	1.5	1.0	--	54.4*	31.9	--
Bergmann-Taylor BT500C	9-22	22.3	1.3	--	--	52.5*	--	--
JMS 4809	9-21	24.5	1.4	--	--	51.9*	--	--
Dekalb CX469c	9-18	32.2	1.7	1.4	1.0	51.2*	29.7	6.2
Delsoy 4210	9-19	32.3	2.3	1.4	1.0	50.6*	27.6	7.7
Jader J4881	9-22	23.3	1.5	--	--	50.6*	--	--
MFA Morsoy 8947SCN	9-22	21.7	1.4	1.0	--	49.3*	24.1	--
Merhmann-Taylor BT463C	9-17	29.2	1.4	--	--	42.1	--	--
JMS 4409	9-13	28.5	1.6	1.5	--	37.3	27.6	--
Delsoy 4500	9-17	29.5	1.5	1.3	1.0	36.6	35.8*	3.1
<u>EXPERIMENTAL VARIETIES</u>								
S86-4499	9-21	31.2	1.4	1.3	--	56.1*	42.6**	--
5.0 Maturity Group Check##	9-29							
AVERAGE	9-20	27.6	1.5	1.3	1.0	49.7	31.1	6.2
LSD (.05)	1	5.3	0.4	0.3	NS	11.4	9.4	4.0
CV (%)	0.4	16.6				20.0	26.4	55.0
<b>MATURITY GROUP 5</b>								
<u>COMMERCIAL VARIETIES</u>								
5.0 Maturity Group Check##	9-29							
Hyperformer HSC 557	10-14	34.2	1.3	2.0	1.7	54.2**	31.4	39.2**
Northrup King S59-60	10-09	25.8	1.4	1.2	1.2	47.6*	19.0	25.2
Hyperformer HSC 591	10-14	31.3	1.4	1.5	1.0	43.5	24.8	24.6
AgraTech AT550	10-09	30.3	1.3	1.5	1.0	42.6	23.8	27.5
Avery + +	9-28	32.3	1.7	1.3	1.0	40.6	35.5*	22.7
Asgrow A5560	10-04	22.0	1.0	--	--	40.4	--	--
Stoneville FFR 500	10-02	17.0	1.1	1.0	--	40.4	28.8	--
Hartwig	10-09	22.7	1.4	1.2	1.0	40.3	18.4	24.0
Bedford	10-13	30.8	1.7	1.7	--	38.0	29.4	--
Pioneer Variety 9551	10-03	19.2	1.3	1.2	--	37.2	18.8	--
JMS 5309	10-06	21.2	1.3	1.0	--	36.7	14.9	--
Cordell	10-07	30.8	1.3	--	--	33.2	--	--
Triumph TRX 552	10-05	21.5	1.1	1.0	--	32.6	16.9	--



TABLE 26. Continued.

Brand-Variety	1992		Lodging Score (1-5)			Yield (Bu/Acre)		
	Matu- rity Date	Plant Height (In)	1992	1991	1990	1992	1991	1990
	Hyperformer HSC 501	10-02	17.0	1.1	1.0	1.2	32.1	17.0
Pioneer Variety 9521	9-28	18.0	1.2	1.0	--	29.3	15.7	--
Rhodes	10-04	24.0	1.2	1.2	1.0	27.4	18.1	19.8
Delsoy 4900 + +	10-01	24.7	1.3	1.0	1.0	27.3	41.6**	4.0
Walters	10-05	20.3	1.3	1.5	--	25.6	18.1	--
Forrest	10-05	22.2	1.3	1.0	--	24.1	11.6	--
<b>EXPERIMENTAL VARIETIES</b>								
Hyperformer HB2-X544	10-03	21.5	1.3	--	--	44.0	--	--
S85-1706	10-07	26.7	1.3	1.2	--	42.7	20.1	--
Stoneville FFR 38108	10-03	21.3	1.3	--	--	39.5	--	--
Hyperformer HB2-X549	10-12	27.7	1.6	--	--	32.3	--	--
D82-2740	10-15	27.3	1.3	--	--	22.0	--	--
6.0 Maturity Group Check##	10-13							
AVERAGE	10-06	24.6	1.3	1.2	1.1	36.4	20.7	25.8
LSD (.05)	4	4.0	0.2	0.5	0.3	9.0	7.2	11.0
CV (%)	1.1	14.4				21.7	31.1	38.1
<b>MATURITY GROUP 6</b>								
<b>EXPERIMENTAL VARIETIES</b>								
6.0 Maturity Group Check##	10-13							
Northrup King X9161	10-10	22.0	1.5	--	2.2	35.8**	--	37.5*
S84-1876	10-10	22.5	1.3	1.0	--	33.2	18.4*	--
7.0 Maturity Group Check##	10-19							
AVERAGE	10-10	22.3	1.4	1.1	1.7	34.5	16.5	37.0
LSD (.05)	1	1.7	0.3	0.1	0.6	NS	6.2	6.0
CV (%)	0.2	5.2				10.5	32.1	14.3
TRIAL AVERAGE		25.6	1.4	1.2	1.2	41.4	23.8	21.8

-- 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 3.

+ + Due to actual recorded maturity dates from previous years, this variety was evaluated in a maturity group different from that in which it was entered by its sponsor.

= Maturity Group 3 variety tested in Maturity Group 4.

NS Not significant at the .05 level.

TABLE 27. Performance of Soybean Cyst Nematode Resistant Varieties evaluated at two Southeastern Missouri locations (Bertrand and Clarkton) during 1992.

**Bertrand**  
 Planted: 18 May 1992  
 Harvested: 21 October 1992  
 Row Spacing: 30 inches  
 Planted Population: 156,800 seeds/A.  
 Soil Type: Clana Loamy Fine Sand  
 Previous Crop: Soybean  
 SCN Population at Harvest: 34800 eggs  
 Growing Season Moisture: 18.2"

**Clarkton**  
 Planted: 21 May 1992  
 Harvested: 6, 19 October 1992  
 Row Spacing: 30 inches  
 Planted Population: 156,800 seeds/A.  
 Soil Type: Bosket Fine Sandy Loam  
 Previous Crop: Soybean  
 SCN Population at Harvest: 2720 eggs  
 Growing Season Moisture: 26.5"

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean
<b>MATURITY GROUP 3</b>						
<u>COMMERCIAL VARIETIES</u>						
Terra-TR 390SCN=	1.2	1.5	1.4	38.5*	33.3	35.9
AVERAGE	1.2	1.5	1.4	38.5*	33.3	35.9
<b>MATURITY GROUP 4</b>						
<u>COMMERCIAL VARIETIES</u>						
Manokin	1.3	1.3	1.3	41.2*	56.6*	48.9**
Delsoy 4710	1.5	1.8	1.6	36.5*	59.5**	48.0*
Delsoy 4210	1.5	2.3	1.9	41.6**	50.6*	46.1*
Dekalb CX469c	1.4	1.7	1.6	32.9	51.2*	42.0
Asgrow A4715	1.3	1.3	1.3	27.5	55.9*	41.7
Bergmann-Taylor BT500C	1.0	1.3	1.2	18.6	52.5*	35.6
Delsoy 4500	1.3	1.5	1.4	33.9	36.6	35.2
JMS 4409	1.5	1.6	1.6	32.0	37.3	34.6
Jader J4881	1.2	1.5	1.4	17.7	50.6*	34.2
JMS 4809	1.1	1.4	1.2	15.8	51.9*	33.8
JMS 4909	1.1	1.5	1.3	12.9	54.4*	33.6
AgraTech AT495	1.3	1.4	1.4	8.8	57.2*	33.0
MFA Morsoy 8947SCN	1.0	1.4	1.2	15.6	49.3*	32.4
Berhmann-Taylor BT463C	1.2	1.4	1.3	22.1	42.1	32.1
<u>EXPERIMENTAL VARIETIES</u>						
S86-4499	1.4	1.4	1.4	39.4*	56.1*	47.8*
AVERAGE	1.3	1.5	1.4	27.2	49.7	38.4
LSD (.05)	0.3	0.4	0.3	6.5	11.4	6.5
CV (%)				20.9	19.9	16.9
<b>MATURITY GROUP 5</b>						
<u>COMMERCIAL VARIETIES</u>						
Hyperformer HSC 557	2.1	1.3	1.7	38.7	54.2**	46.4**
Hartwig	1.3	1.4	1.4	49.8**	40.3	45.0*
Northrup King S59-60	1.2	1.4	1.3	32.6	47.6*	40.1
AgraTech AT550	1.1	1.3	1.2	34.6	42.6	38.6
Pioneer Variety 9551	1.0	1.3	1.2	39.5	37.2	38.4
Cordell	1.8	1.3	1.6	43.3*	33.2	38.2
Stoneville FFR 500	1.0	1.1	1.0	34.6	40.4	37.5
Avery + +	1.9	1.7	1.8	34.2	40.6	37.4
Hyperformer HSC 591	1.7	1.4	1.6	30.4	43.5	37.0
Bedford	1.8	1.7	1.8	31.8	38.0	34.9
Pioneer Variety 9521	1.2	1.2	1.2	39.0	29.3	34.2
JMS 5309	1.2	1.3	1.2	30.8	36.7	33.8
Asgrow A5560	1.0	1.0	1.0	25.8	40.4	33.1
Hyperformer HSC 501	1.0	1.1	1.0	33.4	32.1	32.8
Triumph TRX 552	1.2	1.1	1.2	30.8	32.6	31.7
Rhodes	1.5	1.2	1.4	32.7	27.4	30.0
Forrest	1.4	1.3	1.4	32.4	24.1	28.2
Delsoy 4900 + +	1.2	1.3	1.2	25.5	27.3	26.4
Walters	1.4	1.3	1.4	26.8	25.6	26.2

TABLE 27. Continued.

Brand-Variety	Lodging (%)			Yield (Bu/Acre)		
	Bertrand	Clarkton	Mean	Bertrand	Clarkton	Mean
<b>EXPERIMENTAL VARIETIES</b>						
Hyperformer HB2-X544	1.2	1.3	1.2	43.1*	44.0	43.6*
S85-1706	1.7	1.3	1.5	40.5	42.7	41.6*
Hyperformer HB2-X549	1.9	1.6	1.8	35.1	32.3	33.7
Stoneville FFR 38108	1.0	1.3	1.2	19.0	39.5	29.2
D82-2740	1.6	1.3	1.4	32.7	22.0	27.4
AVERAGE	1.4	1.3	1.4	34.0	36.4	35.2
LSD (.05)	0.3	0.2	0.3	7.0	9.0	5.6
CV (%)				18.0	21.7	20.0
<b>MATURITY GROUP 6</b>						
<b>EXPERIMENTAL VARIETIES</b>						
Northrup King X9161	1.3	1.5	1.4	40.7**	35.8**	38.2**
S84-1876	1.1	1.3	1.2	37.5	33.2	35.4
AVERAGE	1.2	1.4	1.3	39.1	34.5	36.8
LSD (.05)	NS	NS	NS	2.6	NS	2.4
CV (%)				3.8	10.5	7.5
TRIAL AVERAGE	1.3	1.4	1.4	31.7	41.4	36.5

\*\* Highest Yielding Variety in the maturity group.

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

++ Due to actual recorded maturity dates, this variety was evaluated in a maturity group different from that in which it was entered by its sponsor.

= Maturity Group 3 variety tested in Maturity Group 4.

NS Not significant at the .05 level.

TABLE 28. CHARACTERISTICS OF SOYBEAN VARIETIES AND BLENDS\*.

Brand	Variety Brand Blend	Exp. Variety	Mat-urity Group	Color				Phyto-phthora Root Rot	Cyst Nematode Reaction# Company Rating	UMC Race3#	Screening Race4#
				Flower	Pod	Pubes.	Hilum				
<b>COMMERCIAL VARIETIES OR BLENDS</b>											
AgraTech AT 455	V	NO	4	P	BR	TW	BL	T	T	-	-
AgraTech AT 495	V	NO	4	W	BR	TW	BL	T	R	R	MR
AgraTech AT 550	V	NO	5	P	TN	BR	BL	T	R	R	MS
AgraTech AT 575	V	NO	5	W	TN	G	BF	T	R	-	-
AgraTech AT 2520	V	NO	5	W	TN	TW	BR	T	R	R	S
AgraTech AT 2555	V	NO	5	W	TN	G	BF	T	R	R	MR
AgriGene AG545	V	NO	4	W	TN	G	BF	S	S	-	-
AgriPro AP 3125	V	NO	3	W	TN	TW	BL	T	R	R	R
AgriPro AP 3550	V	NO	3	P	TN	TW	BL	S	R	-	-
AgriPro AP 3800	V	NO	3	P	TN	TW	BL	R	S	-	-
AgriPro AP 3990	V	NO	3	P	BR	TW	BL	T	S	-	-
AgriPro AP 4201	V	NO	4	W	TN	TW	BR	T	R	R	MS
AgriPro AP 4420	V	NO	4	P	TN	TW	BR	T	S	-	-
Asgrow A3322	V	NO	3	W	TN	TN	BL	R	S	-	-
Asgrow A3431	V	NO	3	P	BR	G	IBL	R	R	R	MS
Asgrow A3733	V	NO	3	P	TN	TN	BL	S	R	-	-
Asgrow A4138	V	NO	4	W	TN	TW	BL	S	R	MR	MS
Asgrow A4595	V	NO	4	W	TN	TN	BL	R	S	-	-
Asgrow A4715	V	NO	4	W	TN	TN	BL	R	R	R	MR
Asgrow A5403	V	NO	5	P	BR	G	IBL	S	R	R	MR
Asgrow A5560	V	NO	5	P	TN	TW	BL	S	R	R	MS
Asgrow A5885	V	NO	5	W	TN	TW	BL	S	R	R	MS
Bergman-Taylor 399C	BR	NO	3	W	TW	TW	BL	T	R	R	MR
Bergman-Taylor 413C	BR	NO	4	W	BR	BR	BL	T	R	R	MR
Bergman-Taylor 463C	BR	NO	4	W	TW	TN	BL	T	R	-	-
Bergman-Taylor 500C	BR	NO	4	W	TN	TW	BL	T	R	R	MR
BioDelt 2146	BR	NO	4	P	BR	G	BF	T	-	-	-
BioDelt 2157	BR	NO	5	W	TN	TW	BL	T	T	R	MS
BioDelt 2250	BR	YES	5	-	-	-	-	-	-	-	-
BioDelt 2356	BR	YES	4	-	-	-	-	-	-	-	-
BioDelt 2449	BR	YES	5	-	-	-	-	-	-	-	-
Capehart Stone	V	NO	5	W	TN	G	BF	T	S	-	-
Ciba-Geigy G-3344	V	NO	3	M	TN	TW	BL	T	R	R	MS
Ciba-Geigy G-3362	V	NO	3	P	BR	TW	BR	T	R	-	-
Ciba-Geigy G-3388	V	NO	3	W	TN	TW	BL	T	R	R	MR
Ciba-Geigy G-3411	V	NO	4	P	TN	TW	BR	T	S	-	-
Ciba-Geigy G-3482	V	NO	4	W	BR	TW	BL	T	R	R	MR
Dairyland DSR-317	V	NO	3	W	TW	TN	BL	T	S	-	-
Dairyland DSR-331	V	NO	3	P	G	TN	IBL	S	R	-	-
Dairyland DSR-373	V	NO	3	W	TW	TN	BL	T	R	R	MR
Dairyland DST-4103	V	YES	4	P	TW	TN	BL	T	R	R	MS
Dairyland DST-4201	V	YES	4	W	TN	TN	BL	R	R	R	MR
Dekalb CX340c	V	NO	3	W	TN	TW	BL	S	R	R	MS
Dekalb CX366	V	NO	3	P	TN	TW	BL	R	S	-	-
Dekalb CX404	V	NO	4	P	TN	TW	BR	S	S	-	-
Dekalb CX415	V	NO	4	W	TN	TW	BL	S	S	-	-
Dekalb CX458	V	NO	4	W	BR	TW	BL	S	S	-	-
Dekalb CX469c	V	NO	4	P	TN	TW	BL	S	R	R	MR
Deltapine 105	V	NO	5	P	TN	G	IBL	T	T	S	S
Deltapine 415	V	NO	5	P	TN	G	IBL	T	R	S	S
Deltapine DP3456	V	NO	4	W	TN	TW	BL	T	S	-	-
Deltapine DPX3448	V	YES	4	P	-	TW	BL	R	S	-	-
Deltapine DPX3478	V	YES	4	P	-	TW	BL	R	S	-	-
Deltapine DPX3480	V	YES	4	P	-	TW	BL	R	S	-	-
Deltapine DPX3488	V	YES	4	P	-	TW	BL	R	S	-	-
Deltapine DPX3541	V	YES	5	P	TN	TW	BL	R	R	R	MS
Deltapine DPX3553	V	YES	5	P	TN	G	IBL	R	R	R	S
Deltapine DPX3589	V	YES	5	P	-	TW	BL	R	R	R	S
Desoy 303	BL	NO	3	P	BR	TW	M	T	-	-	-
Desoy 323	BL	NO	3	W	M	M	M	T	-	-	-
Desoy 330	BR	NO	3	P	BR	TW	BL	R	-	-	-
Desoy 331	BR	NO	3	W	BR	TW	BL	T	-	-	-
Desoy 331A	BR	NO	3	W	BR	TW	BL	T	-	-	-
Desoy 333	BR	NO	3	M	M	M	M	T	-	-	-
Desoy 343	BR	NO	3	P	BR	T	BL	T	-	-	-
Desoy 383	BR	NO	3	P	BR	TW	BL	R	-	-	-

TABLE 28. Continued.

Brand	Variety Brand Blend	Exp. Variety	Matu- rity Group	Color				Phyto- phthora Root Rot	Cyst Nematode Company Rating	Reaction# UMC Screening Race3#	Reaction# Race4#
				Flower	Pod	Pubes.	Hilum				
Desoy 410	BR	NO	4	P	BR	TW	BL	R	-	-	-
Diamond D301	BR	NO	3	M	TN	TW	BL	T	S	-	-
Diamond SC357	BR	NO	3	W	BR	TW	BR	T	S	-	-
Diamond SC400	BR	NO	4	P	BR	TW	BR	T	S	-	-
Diamond Champion	BR	NO	3	P	BR	G	G	S	S	-	-
Diamond Conquest	BR	NO	3	W	TN	TW	BL	T	S	R	MR
Diamond Jackson II	BR	NO	4	W	BR	TW	BL	T	R	R	MS
ICI D371	BR	NO	3	P	-	TW	BR	T	S	R	MS
ICI EX13608N	BR	YES	3	W	BR	TW	BL	T	S	MS	MS
ICI EX24207	BR	YES	4	P	-	TW	BL	T	S	-	MS
ICI EX24408N	BR	YES	4	W	-	G	BF	R	S	R	MS
Dunn EXP 444	V	YES	4	P	-	-	Y	-	-	-	-
Dyna Gro 3601	V	NO	6	P	G	G	IBL	R	R	MR	S
Fontanelle 5319	BR	NO	3	P	TN	G	IBL	T	S	-	-
Fontanelle 5621	BR	NO	3	W	TN	TW	BL	T	S	-	-
Fontanelle 5999	BR	NO	3	W	TN	TN	BR	T	S	-	-
Fontanelle 6100	BR	NO	3	P	TN	TN	BR	T	S	-	-
Golden Harvest H-1271	BR	NO	2	P	TN	G	IBL	T	S	-	-
Golden Harvest H-1308	BR	NO	3	P	TN	G	IBL	T	S	-	-
Golden Harvest H-1353	BR	NO	3	P	TN	TN	BR	T	S	-	-
Golden Harvest H-1355	BR	NO	3	P	TN	TN	BL	T	S	-	-
Golden Harvest H-1358	BR	NO	3	W	TN	TW	BR	T	S	R	MR
Golden Harvest H-1407	BR	NO	4	P	TN	TW	BR	T	S	-	-
Hartz 5164	V	NO	5	W	TN	BL	BL	T	R	R	MS
Hartz Variety H4242	V	NO	4	W	-	BL	-	T	R	R	MS
Hartz Variety H4464	V	NO	4	W	TN	BL	BL	T	R	R	MS
Hartz Variety H5033	V	NO	5	P	-	BL	-	R	S	-	-
Hartz Variety H5070	V	NO	5	W	-	BL	-	R	R	-	-
Hartz Variety H5350	V	NO	5	W	-	BL	-	R	R	R	MR
Hartz Variety H5566	V	NO	5	W	TN	BL	-	R	R	R	MS
Hartz Variety H5810	V	NO	5	P	-	BL	-	R	R	R	MR
Hyperformer HB2-X544	V	YES	5	W	TN	G	BF	-	R	R	MR
Hyperformer HB2-X549	V	YES	5	-	-	-	-	-	-	-	-
Hyperformer HSC 317	BR	NO	3	P	T	TW	BL	T	S	-	-
Hyperformer HSC 339	BR	NO	3	P	T	TW	BL	T	S	-	-
Hyperformer HSC 355	BR	NO	3	W	B	TW	BR	T	S	-	-
Hyperformer HSC 398	BR	NO	3	P	T	TW	BR	T	S	-	-
Hyperformer HSC 501	V	NO	5	P	BR	TW	BL	R	R	R	MR
Hyperformer HSC 557	V	NO	5	P	TN	TW	BL	T	R	R	MR
Hyperformer HSC 591	V	NO	5	W	TN	TW	BL	T	R	R	MS
Jacques J-380C	V	NO	3	W	TN	TW	BL	T	R	R	MR
Jacques J-399	V	NO	3	W	BR	TW	BL	T	-	-	-
Jacques J-445	V	NO	4	P	TN	TW	BL	T	-	-	-
Jacques J-467	V	NO	4	W	TN	G	BF	T	-	-	-
JaDer J461	V	NO	4	P	TN	G	BF	R	S	-	-
JaDer J467	V	NO	4	P	TN	G	BF	T	S	-	-
JaDer J4881	V	NO	4	W	BR	TW	BL	T	S	R	MR
JMS 3009	V	NO	3	P	TN	TW	BL	T	R	MR	MS
JMS 3609	V	NO	3	W	TN	TW	BL	T	R	R	MS
JMS 3791	V	NO	3	P	BR	TW	BR	T	S	R	-
JMS 3909	V	NO	3	W	TN	TW	BL	T	S	R	R
JMS 4109	V	NO	4	W	TN	TW	BL	T	S	R	MR
JMS 4140	V	NO	4	P	BR	TW	BL	T	S	R	-
JMS 4409	V	NO	4	W	TN	TW	BR	T	S	R	MS
JMS 4515	V	NO	4	P	BR	G	BF	T	S	R	-
JMS 4809	V	NO	4	W	TN	TW	BL	T	S	R	MR
JMS 4909	V	NO	4	W	TN	TW	BL	T	S	R	MR
JMS 5309	V	NO	5	W	TN	TW	BL	T	S	R	-
JMS 5350	V	NO	5	P	TN	TW	BL	T	S	-	-
Kruger K3268	BR	NO	3	W	BR	TW	BR	-	-	-	-
Kruger K3303	BR	NO	3	W	BR	TW	BL	-	-	-	-
Kruger K3333	BR	NO	3	P	BR	TW	BR	-	-	-	-
Kruger K3769+	BR	NO	3	P	BR	TW	BR	-	-	-	-
Kruger K3808	BR	NO	3	P	BR	TW	BL	-	-	-	-
Kruger K3838	BR	NO	3	P	BR	TW	BL	-	-	-	-
Kruger K3939	BR	NO	3	P	BR	TW	IBL	-	-	-	-
Kruger K4040	BR	NO	3	P	BR	TW	BR	-	-	-	-
Kruger K4141	BR	NO	4	P	BR	TW	BL	-	-	-	-

TABLE 28. 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 Race3#	Screening Race4#
Kruger K4343	BR	NO	4	P	BR	G	BR	-	-	-	-	-
KSC 330C	BR	NO	3	W	TN	TW	BL	T	R	MS	S	MR
KSC 402C	BR	NO	4	W	TN	TN	BL	T	R	R	-	-
Lewis 330	BR	NO	3	W	BR	TN	BL	T	R	S	R	MR
Lewis 356	BR	NO	3	W	TN	TN	BL	T	R	S	-	-
Lewis 367	BR	NO	3	W	TN	TN	BL	T	R	S	-	-
Lewis 374	BR	NO	3	-	-	-	-	-	-	-	-	-
Lewis 388	BR	NO	3	P	TN	TN	BR	T	R	S	R	MR
Lewis 409	BR	NO	4	P	TN	TN	BR	T	R	S	-	-
Lewis 452	BR	NO	4	-	-	-	-	-	-	-	-	-
Lynks 5327	BR	NO	3	-	-	-	-	-	-	-	-	-
Lynks 5350	BR	NO	3	-	-	-	-	-	-	-	-	-
Lynks 5376	BR	NO	3	W	TN	TW	BL	R	R	MS	MS	MS
Lynks 5415	BR	NO	4	-	-	-	-	-	-	-	-	-
Masco Omega	BR	NO	3	M	TN	TN	BL	T	R	R	MR	MS
Masco Phyter	BR	NO	4	W	TN	BR	BR	R	R	R	R	MS
Masco Recyster	BR	NO	3	W	-	TN	BL	T	R	R	R	MS
Masco Ruler	BR	NO	3	P	-	TN	BR	T	R	S	-	-
McCurdy 389C	V	NO	3	W	TN	TW	BL	T	R	R	R	MR
Merschman Atlanta II	BR	NO	4	P	TN	TW	BR	T	S	S	-	-
Merschman Austin	BR	NO	4	W	TN	TW	BL	T	S	S	-	-
Merschman Boston III	BL	NO	4	M	TN	M	M	T	S	S	-	-
Merschman Cleaveland II	BR	NO	4	W	BR	TW	BL	T	S	S	R	MR
Merschman Coolidge	BR	NO	3	W	BR	TW	BR	T	S	S	-	-
Merschman Dallas	BR	NO	4	P	TN	GR	BF	T	S	S	-	-
Merschman Dallas II	BR	YES	4	P	TN	GR	BF	T	S	S	-	-
Merschman Dallas 2	BR	YES	4	P	BR	GR	IBL	T	S	S	-	-
Merschman Dallas Two	BR	YES	4	-	-	-	-	T	S	S	-	-
Merschman Eisenhower II	BR	NO	3	P	M	TW	BR	T	S	S	-	-
Merschman Garfield	BR	NO	3	P	TN	TW	BL	T	S	S	-	-
Merschman Harrison II	BR	NO	3	P	TN	TW	BL	T	S	S	-	-
Merschman Hoover III	BR	NO	3	P	BR	TW	BR	T	S	S	-	-
Merschman Houston II	BR	NO	4	W	TN	TW	BL	T	R	R	R	MR
Merschman Kennedy IV	BR	NO	3	P	BR	TW	BR	T	R	R	R	MR
Merschman McKinley	BR	NO	3	W	BR	TW	BL	T	R	R	R	MR
Merschman Norfolk	BR	NO	4	P	TN	TW	BR	T	R	R	R	MR
Merschman Richmond II	BR	NO	4	W	TN	TW	BR	T	R	R	R	MR
Merschman Roosevelt	BR	NO	3	P	BR	GR	BF	T	R	R	R	MS
Merschman Rushmore	BR	NO	5	P	TN	TW	BL	T	R	R	R	MS
Merschman Truman III	BR	NO	3	W	TN	TW	M	T	R	R	R	MS
Merschman Washington VI	BR	NO	3	M	M	TW	BR	T	R	R	R	MS
MFA Morsoy 8838	BR	NO	3	W	TN	TW	BL	R	S	S	-	-
MFA Morsoy 8842	BR	NO	4	W	TN	TW	BL	T	R	R	R	MS
MFA Morsoy 8944	BR	NO	4	W	TN	TW	BL	T	R	R	R	MS
MFA Morsoy 8947 SCN	BR	NO	4	W	TN	BR	BL	T	R	R	R	MS
MFA Morsoy 8951	BR	NO	5	P	TN	TW	BL	T	R	R	R	MS
MFA Morsoy 9038	BR	NO	3	W	TN	TW	BL	T	R	R	R	MS
MFA Morsoy 9043	BR	NO	4	P	TN	G	IBL	T	R	R	R	MS
MFA Morsoy 9050	BR	NO	5	W	TN	TW	BR	T	R	R	R	MS
MFA Morsoy 9135 SCN	BR	NO	3	W	TN	TW	BL	T	R	R	R	MS
MFA Morsoy 9137	BR	NO	3	P	BR	TW	BR	T	R	R	R	MS
MFA Morsoy 9139	BR	NO	3	P	TN	TW	BL	T	R	R	R	MS
MFA Morsoy 9152	BR	NO	5	P	BR	G	BF	T	R	R	R	MS
MFA Morsoy 9233	BR	NO	3	P	TN	BR	BL	R	S	S	-	-
Morning Sun MSS-3300	BR	NO	3	P	TN	G	IBL	T	S	S	-	-
Morning Sun MSS-3690	BR	NO	3	P	TN	TW	BL	T	S	S	-	-
Morning Sun MSS-3893	BR	NO	3	P	TN	BR	BL	R	S	S	-	-
M/W Genetics G3550	BR	NO	3	P	BR	TW	BL	T	S	S	-	-
M/W Genetics G3870	BR	NO	3	P	TN	TW	BR	T	S	S	-	-
NC+ 3A81	V	NO	3	W	TN	TW	BR	T	S	S	-	-
NC+ 3M28	V	NO	3	P	TN	M	IBL	T	S	S	-	-
NC+ 4A10	V	NO	4	P	TN	TW	BR	T	S	S	-	-
NC+ 4A46	V	NO	4	W	TN	TW	BR	T	S	S	-	-
Neco 1051N	BR	NO	3	W	BR	TN	BL	T	R	R	MR	MS
Neco 1200	BR	NO	3	M	TN	TW	BL	T	R	R	R	MS
Neco 1300	BR	NO	4	W	TN	BR	BL	R	S	S	-	-
Neco 7392	BR	NO	3	P	TN	TW	BL	R	S	S	-	-

TABLE 28. Continued.

Brand	Variety	Exp. Variety	Maturity Group	Color				Phytophthora Root Rot	Cyst Company Rating	Nematode UMC Race3#	Reaction# Screening Race4#
				Flower	Pod	Pubes.	Hilum				
Northrup King S29-39	V	NO	3	P	BR	G	Y	R	S	-	-
Northrup King S35-35	V	NO	3	P	TN	TW	IBL	R	S	-	-
Northrup King S38-83	V	NO	3	P	TN	G	IBL	R	S	-	-
Northrup King S39-11	V	NO	3	W	TN	TW	BL	R	S	R	MR
Northrup King S42-40	V	NO	4	P	TN	TW	BL	R	S	-	-
Northrup King S42-50	V	NO	4	W	BR	G	BF	R	S	-	-
Northrup King S44-77	V	NO	4	P	TN	G	BF	R	S	-	-
Northrup King S59-60	V	NO	5	P	TN	TW	BL	R	S	R	MR
Northrup King X9161	V	YES	6	P	TN	TW	BL	R	S	R	MS
Northrup King X9146	V	YES	4	P	BR	TW	BL	R	S	R	MR
Northrup King X9256	V	YES	5	W	TN	TW	BL	R	S	R	MR
Northrup King RA452	V	NO	4	W	BR	G	BF	R	S	-	-
Northrup King Coker 6955	V	NO	5	W	TN	TW	BL	R	S	R	S
Ohlde 3500	BR	NO	3	-	-	-	-	T	S	-	-
Ohlde 3660	BR	NO	3	-	-	-	-	T	R	R	MR
Ohlde 3662	BR	NO	3	-	-	-	-	T	R	R	MR
Ohlde 3710	BR	NO	3	-	-	-	-	T	S	-	-
Ohlde 3750A	BR	NO	3	W	TN	TN	BL	T	S	-	-
Ohlde 4040	BR	NO	4	-	-	-	-	T	S	-	-
Pioneer Brand Variety 9341	V	NO	3	W	TN	TW	BR	S	S	-	-
Pioneer Brand Variety 9381	V	NO	3	W	TN	TW	BR	S	S	-	-
Pioneer Brand Variety 9391	V	NO	3	P	TN	TW	BL	R	S	-	-
Pioneer Brand Variety 9392	V	NO	3	P	TN	TW	BL	S	S	-	-
Pioneer Brand Variety 9442	V	NO	4	P	TN	TW	BL	S	S	-	-
Pioneer Brand Variety 9443	V	NO	4	W	TN	TW	BL	S	R	R	MR
Pioneer Brand Variety 9461	V	NO	4	P	TN	G	IBL	S	S	-	-
Pioneer Brand Variety 9521	V	NO	5	P	TN	TW	BL	S	R	R	S
Pioneer Brand Variety 9551	V	NO	5	P	TN	TW	BL	S	R	R	MR
Pioneer Brand Variety 9584	V	NO	5	W	TN	TW	BL	S	S	-	-
Pioneer Brand Variety 9592	V	NO	5	W	TN	TW	BL	S	S	-	-
Ray-Carroll 938cy	BR	NO	3	W	TN	TN	BL	T	R	R	MS
Ray-Carroll 3330	BR	NO	3	P	TN	TW	BL	T	T	-	-
Ray-Carroll 4140	BR	NO	4	P	BR	TN	BR	T	S	-	-
Ray-Carroll 4656	BR	NO	4	W	TN	TN	BL	T	S	-	-
Reeds 222	BR	NO	2	W	BR	G	IBL	T	S	-	-
Reeds 330	BR	NO	3	W	TN	TW	BL	R	S	-	-
Reeds 333	BR	NO	3	W	TN	BR	BL	T	S	-	-
Reeds 390	BR	NO	3	P	TN	TN	BR	T	S	-	-
Reeds 350 SCN	BR	NO	3	P	TN	G	IBL	T	R	MR	S
Reeds 360 SCN	BR	NO	3	W	TN	BR	BR	R	R	R	MR
Research Seed Buchanan	BR	NO	3	W	BR	TW	BR	R	S	-	-
Research Seed Express	BR	NO	3	P	BR	TW	BF	S	S	-	-
Research Seed Galaxy	BR	NO	3	P	TN	TW	BR	S	S	-	-
Riverside 499	V	NO	5	W	TN	G	BL	-	-	R	S
Riverside 577	V	NO	5	W	TN	G	BF	T	-	-	-
Riverside 91-46	V	NO	5	-	-	-	-	-	-	-	-
Shissler GR8 385	V	NO	3	M	TN	G	BL	S	S	-	-
Shissler GR8 392c	V	NO	3	W	TW	TW	BL	R	R	R	MS
Shissler GR8 397	V	NO	3	P	TW	TW	BR	S	S	-	-
Southern Cross Samson	V	NO	5	W	BR	TW	BL	S	S	-	-
Stine 3090	V	NO	3	P	BR	BR	BR	T	S	-	-
Stine 3240	V	NO	3	-	-	-	-	-	-	-	-
Stine 3250	V	NO	3	-	-	-	-	-	-	-	-
Stine 3382 CN	V	NO	3	-	-	-	-	-	-	R	MR
Stine 3390	V	-	3	-	-	-	-	-	-	-	-
Stine 4350	V	-	4	-	-	-	-	-	-	-	-
Stine 4390	V	-	4	-	-	-	-	-	-	-	-
Stine 5310	V	-	5	-	-	-	-	-	-	-	-
Stoneville/FFR 464	V	NO	4	P	TN	BR	BL	T	S	-	-
Stoneville/FFR 500	V	NO	5	W	TN	G	BF	T	R	R	MS
Stoneville/FFR 561	V	NO	5	W	TN	G	BF	T	S	-	-
Stoneville/FFR 38108	V	YES	5	P	TN	G	IBL	T	R	MS	S
Taylor 399	BR	NO	3	-	BR	BR	-	S	S	-	-
Terra Flame	BR	NO	4	M	TN	TW	BL	T	S	-	-
Terra Torch	BR	NO	3	P	BR	TW	BL	T	S	-	-
Terra TS312	BR	NO	3	P	BR	TW	BR	T	S	-	-

TABLE 28. Continued.

Brand	Variety Brand Blend	Exp. Variety	Mat- ury Group	Color				Phyto- phthora		Cyst Nematode Reaction#		
				Flower	Pod	Pubes.	Hilum	Root	Rot	Company Rating	UMC Race3#	Screening Race4#
Terra TR 390	BR	NO	3	W	TN	TW	BL	T	R	R	MR	
Terra TS 402	BR	NO	4	P	TW	TW	BR	T	S	-	-	
Terra-Vig 515	V	NO	5	P	-	TN	BL	R	R	R	S	
Terra-Vig 5452	V	NO	5	W	-	G	BR	T	R	R	S	
Terra-Vig 5693	V	NO	5	P	-	G	IBL	T	-	-	-	
Terra-Vig X5653	V	YES	5	-	-	-	-	-	-	-	-	
Terra-Vig X6897	V	YES	5	-	-	-	-	-	-	-	-	
Triumph 552	V	NO	5	W	TN	TW	BR	T	R	R	S	
UAP 75	BR	YES	4	P	TN	TN	BR	T	S	-	-	
UAP 3290	BR	NO	2	-	-	-	-	-	-	-	-	
UAP 3301	BR	NO	3	-	-	-	-	-	-	-	-	
UAP 3340	BR	NO	3	-	-	-	-	-	-	-	-	
UAP 3371	BR	NO	3	-	-	-	-	-	-	-	-	
UAP 3405	BR	NO	4	-	-	-	-	-	-	-	-	
UAP 3450	BR	NO	4	-	-	-	-	-	-	-	-	
Vigro KE 358	BR	NO	3	M	TN	TW	BL	T	S	-	-	
Vigro KE 371	BR	NO	3	P	TN	TW	BL	T	S	-	-	
Vigro KE 392	BR	NO	3	W	BR	TW	BR	T	S	-	-	
Willcross 90	V	NO	3	P	TN	BR	IBL	T	T	S	S	
Willcross 92A	V	NO	3	P	TN	TW	BL	R	S	-	-	
Willcross 92B	V	NO	3	P	TN	TW	BL	R	S	-	-	
Willcross Exp 94A	V	YES	3	W	BR	TN	BL	T	R	R	MR	
Wilson 3250	BR	NO	3	P	BR	TW	BR	T	S	-	-	
Wilson 3480	BR	NO	3	W	TW	TW	BL	T	S	R	MR	
Wilson 4010	BR	NO	4	P	TW	TW	BR	S	S	-	-	
<b>PUBLIC VARIETIES</b>												
Jack	V	NO	2	W	BR	G	Y	S	R	R	MR	
Edison	V	NO	3	P	TN	TW	BL	R	S	R	MR	
Fayette	V	NO	3	W	TN	BR	BL	R	R	MR	MS	
Flyer	V	NO	3	P	TN	TW	BL	R	R	S	-	
Harper 87	V	NO	3	P	BR	TW	BL	R	R	S	-	
Kuntiz	V	NO	3	W	TN	TW	BL	R	R	S	-	
Linford	V	NO	3	W	TN	TW	BL	R	R	S	MR	
Resnik	V	NO	3	P	TN	TW	BL	R	R	S	-	
Williams 82	V	NO	3	W	TN	TW	BL	R	S	-	-	
Corsica	V	NO	4	P	TN	TW	BL	S	S	-	-	
Crawford	V	NO	4	P	BR	BR	BL	R	S	R	-	
Delsoy 4210	V	NO	4	W	TN	TW	G	S	R	MR	S	
Delsoy 4500	V	NO	4	W	TN	G	BF	S	R	R	S	
Delsoy 4710	V	NO	4	P	TN	TW	BL	S	R	R	MR	
Hamilton	V	NO	4	W	BR	G	BF	R	R	-	-	
Manokin	V	NO	4	W	TN	TW	BL	-	R	R	S	
Ripley	V	NO	4	P	TN	G	BF	R	S	-	-	
S86-4499	V	YES	4	P	-	TN	BL	-	R	R	MR	
V81-141	V	YES	4	W	TN	G	BF	S	S	-	-	
Avery	V	NO	5	W	BR	TW	BL	R	R	MS	MS	
Bedford	V	NO	5	W	TN	BR	BL	T	R	R	MR	
Cordell	V	NO	5	W	TN	TN	BL	T	R	R	MR	
Delsoy 4900	V	NO	5	P	TN	BR	BR	S	R	R	S	
Essex	V	NO	5	P	TN	G	BF	T	R	-	-	
Forrest	V	NO	5	W	TN	BR	BL	T	R	R	S	
Hartwig	V	NO	5	W	TN	TW	BL	T	R	R	S	
Hutcheson	V	NO	5	W	TN	G	BF	T	R	-	-	
Rhodes	V	NO	5	W	TN	TW	BR	-	R	R	S	
Walters	V	NO	5	P	TN	TW	BL	R	R	R	S	
D82-2740	V	YES	5	-	-	-	-	-	-	-	-	
S84-1876	V	YES	6	W	-	G	BR	-	R	R	MS	
S85-1706	V	YES	5	P	-	G	BF	-	R	R	MR	



TABLE 29. NAMES OF SOYBEAN ENTRIES EVALUATED IN 1992 AND THEIR SEED SOURCES.

BRAND	VARIETY/BLEND	SEED SOURCE
AgraTech	455, 495, 550, 575, 2520, 2555	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055
AgriGene	AG545	AgriGene Seed Research, 11331 Aurora Ave., Des Moines, IA 50322
AgriPro	AP 3125, AP 3550, AP 3800, AP 3990, AP 4201, AP 4420	AgriPro Seeds, Rt. 2, Hwy. 30 E, Ames, IA 50010
Asgrow	A3322, A3431, A3733, A4138, A4595, A4715, A5403, A5560, A5885	Asgrow Seed Co., Box 460, Parkersburg, IA 50665
Bergman-Taylor	399C, 413C, 463C, 500C	Bergman-Taylor, Inc., Box 317, St. Jacob, IL 62281
BioDelt	2146, 2157, 2250, 2356, 2449	BioDelt, Ltd., 4735 Sergeant Rd., Waterloo, IA 50701
Capehart	Stone	Capehart Seed Service, Box 10, Holland, MO 63853
Ciba-Geigy	G-3344, G-3362, G-3388, G-3411, G-3482	Ciba-Geigy Seed Div., 1500 Pine Croft, Box 18300, Greensboro, NC 27419
Dairyland	DSR-317, DSR-331, DSR-373, DST-4103, DST-4201	Dairyland Seed Co., Inc., Box 958, 3570 Hwy. H, West Bend, WI 53095
Dekalb	CX340c, CX366, CX404, CX 415, CX458, CX469c	Dekalb Plant Genetics, 3100 Sycamore Road, DeKalb, IL 60115
Deltapine	105, 415, DP3456, DPX3448, DPX3478, DPX3480, DPX3488, DPX3541, DPX3553, DPX3589	Delta and Pine Land Co., Box 157, Scott, MS 38772
Desoy	303, 323, 330, 331, 331A, 333, 343, 383, 410	Dennis Ewing Farm Seed, Rt. 4, Ames, IA 50010
Dunn	EXP 444	International Ltd., 4735 Sergeant Rd., Waterloo, IA 50701
Dyna Gro	3601	Tri-State Delta Chem. Inc., Box 89, Rayville, LA 71269
Fontanelle	5319, 5621, 5999, 6100	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044
Golden Harvest	H-1271, H-1308, H-1353, H-1355, H-1358, H-1407	The J.C. Robinson Seed Co., 100 J.C. Robinson Blvd., Box A, Waterloo, NE 68069
Hartz Variety	5164, H4242, H4464, H5033, H5070, H5350, H5566, H5810	Jacob Hartz Seed Co., Inc., Box 946, Stuttgart, AR 72160
Hyperformer	HSC-501 Brand, HB2-X544, HB2-X549, HSC-317, HSC-339, HSC-355, HSC-398, HSC-557, HSC-591	Hyperformer Seed Co., 6075 Poplar, Suite 500, Memphis, TN 38119
ICI	Champion, Conquest, Jackson II, D301, D371, SC357, SC400, EX13608N, EX24207, EX24408N	ICI Seed, Box 300, 615 Main St., Coon Rapids, IA 50058
Jacques	J-380C, J-399, J-445, J-467	Jacques Seed Co., Rt. 2, Box 84, Lincoln, IL 62656
Jader	J 461, J 467, J4881	Jader Seed, Box 212, Ridgeway, IL 62979
JMS	3009, 3609, 3791, 3909, 4109, 4140, 4409, 4515, 4809, 4909, 5309, 5350	J.M. Schultz Seed Co., 105 Pine St., Dieterich, IL 62424
KSC	330C, 402C	Kitchen Seed Co. Inc., Hwy. 36 W., Box 1147, Hannibal, MO 63401
Kruger	K3268, K3303, K3333, K3769+, K3808, K3838, K3939, K4040, K4141, K4343	Kruger Seed Co., Box A, Hwy 20E, Dike, IA 50624
Lewis	330, 356, 367, 374, 388, 409, 452	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376

TABLE 29. Continued.

BRAND	HYBRID	FIRM AND ADDRESS
Lynks	5327, 5350, 5376, 5415	Lynks Seeds, Box 637, Marshalltown, IA 50158
Masco	Omega, Recyster, Ruler, Phyter	McAllister Seed Co., Inc., 1307 N. Broadway, Box 28, Mt. Pleasant, IA 52641
McCurdy	389C	McCurdy Seed Co., 522 E. Main St., Fremont, IA 52561
Merschman	Atlanta II, Austin, Boston III, Cleveland II, Coolidge, Dallas, Dallas II, Dallas 2, Dallas Two, Eisenhower II, Garfield, Harrison II, Hoover III, Houston II, Kennedy IV, McKinley, Norfolk, Richmond II, Roosevelt, Rushmore, Truman III, Washington VI	Merschman Seed Co., 103 Ave. D., West Point, IA 52656
MFA Morsoy	8838, 8842, 8944, 8947 SCN, 8951, 9038, 9043, 9050, 9135 SCN, 9137, 9139, 9152, 9233	MFA Inc., 615 Locust, Columbia, MO 65201
Morning Sun	MSS-3300, MSS-3690, MSS-3893	Morning Sun Seed Inc., Rt. 1, Box 63, Westboro, MO 64498
M/W Genetics	G3550, G3870	Midwest Seed Genetics, Inc., Box 518, 213 E. 6th, Carroll, IA 51401
NC+	3A81, 3M28, 4A10, 4A46	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504
Neco	1051N, 1200, 1300, 7392	Neco Seed Farms, Inc., Box 379, Garden City, MO 64747
Northrup King	S29-39, S35-35, S38-83, S39-11, S42-40, S42-50, S44-77, S59-60, X9161, X9146, Coker 6955, RA 452	Northrup King Co., Box 668, Ames, IA 50010
Northrup King	X9256	Northrup King Co., Hwy. 158E, Box 729, Bay, AR 72411
Ohlde	3500, 3660, 3662, 3710, 3750A, 4040	Ohlde Seed Farms, Box 63, Palmer, KS 66962
Pioneer Variety	9341, 9381, 9391, 9392, 9442, 9443, 9461, 9521, 9551, 9584, 9592	Pioneer Hi-Bred Int., Inc., 1000 W. Jefferson, Tipton, IN 46072
Ray-Carroll	938cy, 3330, 4140, 4656	Ray-Carroll Seeds, E. Santa Fe, Box 267, Norborne, MO 64668
Reeds Brand	222, 330, 333, 390, 350 SCN, 360 SCN	Reeds Seeds, Inc., 1035 Industrial Rd., Box 230, Chillicothe, Mo 64601
Research Seeds	Buchanan, Express, Galaxy	Research Seeds, Box 1393, St. Joseph, MO 64502
Riverside	499, 577, RVSL 91-46	Terra Int. Inc., Box 171376, Memphis, TN 38187
Shissler	GR8 385, GR8 392C, GR8 397	Shissler Seed Co., Rt. 3, Elmwood, IL 61529
Southern Cross	Samson	Miles Seed Co., 2760 Keller Rd., Owensboro, KY 42301
Stine	3090, 3240, 3250, 3382 CN, 3390, 4350, 4390, 5310	Stine Seed Co., 2225 Laredo Trail, Adel, IA, 50003
Stoneville/FFR	464, 500, 561, 38108	Stoneville Pedigreed Seed Co., Box 167, Stoneville, MS 38756
Taylor	399	Taylor Seed Farm Inc., Box 27A, White Cloud, KS 66094
Terra	Flame, Torch, TS-312, TS 402, TR 390 SCN	Terra Int., Inc., 600 4th St., Sioux City, IA 51101
Terra-Vig	515, 5452, 5693, X5653, X6897	Terral-Norris Seed Co., Inc., 604 Blount St., Box 826, Lake Providence, LA 71254
Triumph	552	Triumph Seed Co., Inc., Box 1050, Ralls, TX 79357
UAP	3290, 3301, 3340, 3371, 3450, 3405, X-75	United Agri Products Seeds, 537 Atlas Ave., Madison, WI 53707

TABLE 29. Continued.

BRAND	HYBRID	FIRM AND ADDRESS
Vigoro	KE 358, KE 371, KE 392	Vigoro Seed Co., 204 W. Chestnut, Clarence, MO 63437
Willcross	90, 92A, 92B, Exp 94A,	Midland Soybean Dev. Assoc., Box 379, Garden City, MO 64747
Wilson	3250, 3480, 4010	Wilson Hybrids, Inc., Box 391, Harlan, IA 51537
MO. Experimentals	S84-1876, S85-1706, S86-4499	Dr. Sam Anand, UMC Delta Research Center, Box 160, Portageville, MO 63873
Public Varieties	Avery, Bedford, Cordell, Corsica, Crawford, Delsoy 4210, Delsoy 4500, Delsoy 4710, Delsoy 4900, Edison, Essex, Fayette, Flyer, Forrest, Hamilton, Harper 87, Hartwig, Hutcheson, Jack, Kuntiz, Linford, Manokin, Resnik, Rhodes, Ripley, Walters, Williams 82	Foundation Seeds, 135 Mumford, UMC, Columbia, MO 65211
VA Experimentals	V81-141	Crops & Soils Dept., VA Tech, 1936 E. Parham Rd., Richmond, VA 23228
MS Experimental	D82-2740	Mississippi State University, Box 6311, Mississippi State, MS 39762



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